



中华人民共和国国家标准

GB/T 38551—2020

植物品种鉴定 MNP 标记法

Identification of plant varieties—MNP marker method

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前 言

本标准按照 GB/T 1.1—2009 给出的规则起草。

本标准由中国标准化研究院提出并归口。

本标准起草单位：江汉大学、武汉明了生物科技有限公司、中国标准化研究院、农业农村部科技发展中心、北京工商大学、北京市农林科学院蔬菜研究中心、湖南杂交水稻研究中心、华南农业大学、张家口市农业科学院、深圳华大智造科技有限公司。

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植物品种鉴定 MNP 标记法

1 范围

本标准规定了植物品种鉴定多核苷酸多态性(MNP)标记法的原理、试剂或材料、仪器设备、测定步骤、结果分析。

本标准适用于水稻(*Oryza sativa* L.)、玉米(*Zea mays* L.)、大豆[*Glycine max* (Linn.) Merr.]、棉花(*Gossypium* spp.)、花生(*Arachis hypogaea* L.)、谷子(*Setaria italica*)、西瓜(*Citrullus lanatus*)、甜瓜(*Cucumis melo* L.)、黄瓜(*Cucumis sativus* L.)、艾草(*Artemisia argyi*)、番茄(*Lycopersicon esculentum* Mill.)、辣椒(*Capsicum annuum* L.)、白菜[*Brassica pekinensis* (Lour.) Rupr.]、龙眼(*Dimocarpus longan* Lour.)、荔枝(*Litchi chinensis* Sonn.)、猕猴桃(*Actinidia Chinensis*)的原始品种鉴定、实质性派生品种鉴定和品种真实性鉴定。其他植物品种鉴定可参考本标准。

2 规范性引用文件



下列文件对于本文件的应用是必不可少的。凡是注日期的引用文件,仅注日期的版本适用于本文件。凡是不注日期的引用文件,其最新版本(包括所有的修改单)适用于本文件。

GB/T 3543.2 农作物种子检验规程 扦样

GB/T 6882 声学 声压法测定噪声源声功率级和声能量级 消声室和半消声室精密法

GB/T 19557.1 植物新品种特异性、一致性和稳定性测试指南 总则

NY/T 2594 植物品种鉴定 DNA 分子标记法 总则

3 术语和定义

下列术语和定义适用于本文件。

3.1

多核苷酸多态性 multiple nucleotide polymorphism; MNP

在基因组水平上由多个核苷酸引起的序列多态性。

3.2

实质性派生品种 essential derived variety; EDV

由原始品种派生或者由原始品种的实质性派生品种再次派生,且保留了原始品种的基因型或基因型组合产生的基本特性,但与原始品种存在明显差别的品种。

3.3

变异度 degree of variance

异型株(非典型植物)占总观测植株的百分率。

3.4

平均覆盖倍数 average coverage

比对到标记位点上的测序片段数目与标记位点数目的比值。

3.5

检出的标记位点 detected markers

至少有一个等位基因型有 20 条及以上测序片段支持的标记位点。

4 原理

利用多重聚合酶链式反应(PCR)和二代高通量测序扩增并检测样品基因组上的 MNP 标记位点,分析测序数据,获得标记位点的分型结果和鉴定结论。

5 试剂或材料

除非另有规定,仅使用分析纯试剂。

5.1 水:GB/T 6882 一级。

5.2 多重 PCR 扩增与文库构建试剂盒。

5.3 高通量测序试剂盒。

5.4 MNP 标记引物:见附录 A。

6 仪器设备

高通量测序仪。

7 测定步骤

7.1 操作要求

样品准备、DNA 提取、多重 PCR 扩增与文库构建、高通量测序在规定的区域按单一方向进行操作且保持实验室通风良好。不同区域的仪器设备应专用。

7.2 取样

7.2.1 样品应为从变异度不高于 5%的植物品种群体中抽取的个体样本混合物。

7.2.2 从植物品种群体中抽取的个体的数量宜满足 NY/T 2594 要求。

7.2.3 样品中个体的类型宜为幼嫩且新鲜的叶、根、茎、胚等器官或组织,也可为种子。

7.2.4 从植物品种群体中的抽样应具有代表性。农作物种子扦样应符合 GB/T 3543.2 要求。

7.3 DNA 提取

提取与纯化的 DNA 溶液应在 260 nm 与 230 nm 处的吸光度比值大于 2.0;在 260 nm 与 280 nm 处的吸光度比值介于 1.7 与 1.9 之间;DNA 电泳主带明显,无明显降解和 RNA 残留。

7.4 多重 PCR 扩增与文库构建

按多重 PCR 扩增与文库构建试剂盒的说明书进行 DNA 质控、多重 PCR 扩增、文库构建与纯化。其中,多重 PCR 的扩增循环数不高于 20 个。

7.5 高通量测序

按高通量测序试剂盒和高通量测序仪的操作说明进行高通量测序。

高通量测序的平均覆盖倍数设置为 700 倍以上,测序长度大于标记引物在参考基因组上的扩增长度。

7.6 测序数据质量控制

数据质量控制如下：

- 利用 MLMNP 品种鉴定软件将样品的测序数据比对到参考基因组的标记位点上,统计第一次检测的标记位点的平均覆盖倍数 C_1 ；
- 当 C_1 小于 500 时,判定样品的测序数据量不足,从 7.5 或之前的步骤开始重新实验至第一次检测的标记位点的平均覆盖倍数 C_1 大于或等于 500；
- 当 C_1 大于或等于 500 时,进一步计算检出的标记位点的比例 $R_1 = \frac{T_1}{T}$,其中, T_1 和 T 分别为样品的检出的标记位点的数目和检测的标记位点的数目；
- 当 R_1 大于或等于 95% 时,判定测序数据合格；
- 当 R_1 小于 95% 时,判定文库构建可能失败,从 7.3 或之前的步骤开始重新实验至第二次检测的标记位点的平均覆盖倍数 C_2 大于或等于 500；
- 当 C_2 大于或等于 500 时,进一步计算第一次和第二次共同的检出的标记位点的比例 $R_2 = \frac{2T_{12}}{T_1 + T_2}$,其中, T_{12} 为第一次和第二次共同检出的标记位点的数目, T_1 和 T_2 为第一次和第二次分别检出的标记位点的数目；
- 当 R_2 大于或等于 95% 时,判定测序数据合格。

8 结果分析

8.1 结果计算

遗传相似度按式(1)计算：

$$GS = \frac{n_{ij}}{N_{ij}} \times 100\% \quad \dots\dots\dots (1)$$

式中：

- GS ——待测品种与对照品种的遗传相似度；
- n_{ij} ——待测品种与对照品种中均检出的但基因型无差异的标记位点的数目；
- N_{ij} ——待测品种与对照品种中均检出的标记位点的数目。

8.2 结果判定

8.2.1 原始品种的鉴定

当对照品种为在待测品种植物新品种权申请日前的所有已知品种时,判定待测品种是否为原始品种。

当待测品种与所有对照品种间的遗传相似度 GS 均小于 α 时,判定待测品种为原始品种。

其中, α 为按有关法规确定的待测品种所在植物的实质性派生品种的判定阈值。

8.2.2 实质性派生品种的鉴定

当对照品种为原始品种时,判定待测品种是否为对照品种的实质性派生品种。

当 GS 小于 α 时,判定待测品种不是对照品种的实质性派生品种；

当 GS 大于或等于 α 时,判定待测品种是对照品种的实质性派生品种。



8.2.3 品种真实性鉴定

8.2.3.1 水稻、玉米、大豆、棉花、花生、谷子、西瓜、甜瓜、黄瓜、番茄、辣椒、白菜、猕猴桃按以下判定：

- 当 GS 小于 96% 时,判定待测品种与对照品种为“不同品种”；
- 当 GS 大于或等于 96% 且小于 99% 时,判定待测品种与对照品种为“近似品种”；
- 当 GS 大于或等于 99% 时,判定待测品种与对照品种为“极近似品种或相同品种”。

8.2.3.2 艾草、龙眼、荔枝按以下判定：

- 当 GS 小于 91% 时,判定待测品种与对照品种为“不同品种”；
- 当 GS 大于或等于 91% 且小于 99% 时,判定待测品种与对照品种为“近似品种”；
- 当 GS 大于或等于 99% 时,判定待测品种与对照品种为“极近似品种或相同品种”。

8.2.3.3 对“近似品种”或“极近似品种或相同品种”的样品,可按 GB/T 19557.1 进一步进行田间种植鉴定。



附 录 A
(规范性附录)
MNP 标记引物

A.1 水稻 MNP 标记引物

水稻 MNP 标记引物见表 A.1。

表 A.1 水稻 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	AGCTGGTGGATAGAATGACATGTG	GATAAGCCTGTTACAATTTCTCTCCATCA
chr8	GCTAATTAAGTAAGTAGAGTAAGCACCAGT	AAAACAAGCTGATTTCAACTCTCTGAAAC
chr5	CATTTTGGATGGTTTTGTGGATTCCT	AGAATTCCAATACTCACAATCACAAGCA
chr5	CACTAGATACACCTAGCTACATGTATGGT	CATGGCCAGTCCATGATTTTTGG
chr8	CAAGCCAAACATAGCAAACCGTA	ATGGATAACCATCTAGTGTTTGTGTACTG
chr1	AGTGCCTTTCGTATTTCTCAATGTGT	CTTGATTTGGCTTTTGCCTTCTCT
chr4	AATTTCAAGTCTTGGAATGTTTTGTGCT	GGGTAACTTCTTTTGGAGTCCCTAAG
chr1	CATGCAAGGATAAAGTGAGGCAGTA	AGATACAGTGCATGCATCAGCTT
chr7	GCATTGCGACGAGCTCTGTA	CCTTGACATTCAGCCATGAATAGC
chr8	CGGGTTAGCCATGGACAAGAAA	CCCTACTGTACACCACCAAAAGTG
chr3	CGCTTCAAATTAAGTATCGTTCTAGCAA	CCAGTGAATGCAATTTTGGTTCAAAATTC
chr6	TGGAAGCTTGGAGATTTTAGTACGC	CGAGGAGTACACATCTTATTTGGAGAAG
chr1	CGAACCCGTTCTCTCAATTTATATAGGA	GCAAGTCCTATTTGGAGAATTAATTCGAGA
chr5	GGGACTTCAATATATTTCTTGTGCATTGT	CCCATAGCTACTAGACTTAATTTCCACC
chr6	GCGTCAGAACTTCAACACCAAG	CCTTAGCCTTGCTCAGCTATTTAATTG
chr12	GATAGGGTTTCGAAACTAATTCTCCA	CCATAAGTCTCGTGGTGTTTGCT
chr12	AGTGTTCCAACCCTGTCTCCTTA	CATTGCAGTCATGCAAATTTCCA
chr5	CCTATAGGAGGAAAGTATAGGTGCTGA	ATACCTATCGAAAGATTAGGACCTAACGT
chr7	AGGAGATGTGAAAATGTGAATAGTGAACA	GTCGGTGCTGCTATCTTAGTTTCT
chr2	TGCTGCAAGGTTTGTGTTGATTCTG	TCCGCTACAATTACAGGATCCAATG
chr4	CCCACTATTGTTGGAGCCAACA	CACAGACCTTTGTTATAGAGACAACATAT
chr3	CACAATTTTGGAAACGGATGCAGT	AAAATTTTCGAAATTCGAGGAAATTTCT
chr6	GGCAGCTCTGATAACAACGGT	TAACCTTGGCCGTGAACCAAA
chr5	CAAAACGGTGGTGGTAAATACGG	GTGGTATTTGGATCTTCGAAACATGT
chr6	GGTAAGATGAATCATATAGTGATGGCCAT	TGGCGATTACAAAACCTTCAAAAGCTAAC
chr10	CAACCAATTCCTCCAAGAAAGCATC	TCACCATACCTTCATTTTGGGCA

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	GCAGGAGGGAAGAAGTTAGTGC	AGTGATGGATTGATAGCTTTCTATATGCTG
chr8	AGGGTGGGTTGTGGAGAGATAT	AATCATGTTAGCAAGATCAGAAGAAGCT
chr5	CCTCTGGCCTCCTACATCATACA	CGGACAAATGGTGTGTACAAATACAATT
chr6	TGTGCATGACCTTTGCTCAGAA	AGTAACTGGATTGATCGATGCAGATTT
chr1	TTCGGTTTATAACATACTAAGTCGTGCAT	CGTGTAGTCCCTCTCTGAAACG
chr8	GATTTGAAAATTGTCTCAATCATGTGGGTT	GTCACCCCTCAATTTTTTACCTGTGAAAAAT
chr2	TTTTTACATGTGGAGCTGCGGATA	CATCACACCAACCTCAAGTCCT
chr8	TAGGTTTATGAACATGATGGCTTCAGTT	TTGACTTGATGCGGTGTAGATAATAACATGA
chr8	TCTCCTGATTACTTTACTCACTCTGTGT	CCTATTGACCATTGAACTACCATTTCTGTT
chr8	TTTTTCATGCTATTTGTGTGATCGACTTGT	GCTAACATATTCAATCTCAGACTTCGCAA
chr8	GTTCTTTTCAGAGTTTCAGAGATGTTAGCT	AACATGCATGCACTCTAGTACTCTAC
chr4	TTTCTTAGCGTTGGTGCAAAGATAAAC	GACAAGAGGAGGCTAAAATGATATTGAACT
chr2	GACTTGGTGGCCACAACATCTA	GACTTCTGCTTCCTTTTGGATTCTG
chr5	TATGTGCTACCAGAGTATATCACAGCA	GAAACATGCCCAAAGAGCACATC
chr3	CCTCGCCATCTTCTTCCTTGAA	CTCTTTGTAGTCTTCCCAGCTCAATTT
chr5	GGTGGTGTAGTGGGCTAGATCT	CTTGTGTAGCTATGATTCTTCACATCACT
chr1	CAGTGGGAAGCCACATAAACCA	GGGACATGTTCTACCTCATGATCATG
chr3	ATCTTAATACAATCCGATGGCCACAA	CCTCATTTGATGGGACATTAGTCGAC
chr1	CACTCCAAACAGTAGTGAGTAGTGT	GGGCCTGTTTATCCTAATTTTGTCTTCTT
chr7	TTGCCAACACCTTCCTCACTAG	GTCTAAAAGAGGTTCACTGCTGTCAA
chr8	TTTCTTATTACACCAACCAGCAAACTAC	GATCTCGACGACGACAGATTCTC
chr3	TCAGACATTTCTTCTCATGGTCCATTG	GTGAGTTGTGACAGGATAGTACTACTAGT
chr6	TGACACTGGAGTTGATTACAAAGACAA	ATCATCATGGATTCCCTTCGAAGAAAGTTAT
chr8	CCATTTAGTAGCAAACTGGGAAGCAT	TGTGAGCTTGATAAAGCTTGTCGT
chr8	AGCTACAATGTCTATTTGCCCTACTATAG	TGGTTTAAAACCAAATTTTGCTAAGCCT
chr3	ACGCTTAAAGGGAAATGATCAATGAGT	TTGGGTATCTAATCGCATACAAAGGAATT
chr4	TCTATTTAGTGCCAACTTCGATACCATG	TCTCTACTGTTTTATCTCCTCGACATATGT
chr3	CTTGATCCCGTACGCATCGTA	ATCAACGGTTCTAGAAAGCCTATGATAAAA
chr4	TCACTGTATCGTCATACAAATCATAGTCCT	GTGGCTTTTAGCTTTAGCATTTTAAGTACA
chr1	GGCTTTCTCCCATGCTTATACCT	CCAGTGTGAGAGGCGAAAATACC
chr3	TACGTGATACGTCTATGCGTAGGA	TCGAGGAGATCTCTCTAGTACTCCTATC
chr2	CGATTGTTTTTCGGTATGTCAGTTGTG	TGATGCCAGTGAACATTTGGGT
chr11	AGAACGGGTACCAATATTTGCTTCC	ATCTGCTTGGAATAATTAAGCTCTCAGATA
chr2	GTGCTGTGTGATTCATTATGATTCTCC	CTTGCGCACGTACTACTCATTAGA

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	CCAACTGAAGGTTTGTGTGTTAACTCC	TGAAAAGATAGTTCATCACATTGTTTCAGGT
chr5	ACTAACCTCACGCTGCATATGC	GTAGAGCAAACAATGGAAGCACATAG
chr11	GTACAAGAAGGCACCATGCCAT	GAACATACAGACGTTGATAGTGTAAATGGA
chr3	TTGTACGTAACGCCAACTTTTG	GCTAGGCTTGATTTCATCCAACAAATATG
chr6	ACTTCTATCATCAACCAGAGGTACATAGAA	CACTGCAGAGTAACAGCACACT
chr5	GGCCGAATGAACTATAGATGCCT	ACCAAGATTTATAAGACCGTGTGGTTATC
chr2	GAAATCAACCTGATTTCCAAATAGTTCAGT	CGCACGAAAAATAATATAGCTCATTAACACA
chr10	GGATTAAGCGCGAAGATCCGAA	TGCACTATCACTTTGGTAAAAAGGCA
chr8	CCGGGTAAAAACACCATTAGAGCA	CACATTGAACGTTTGAAACTTGCATAAAAT
chr8	TGTCGTCTCAAGTTCTAGCTAGGT	AACAACGATATCAACGGTAGCGAT
chr2	GACCTTCTGTTTCTACCAGAAAAACAC	GCTCTCTTCCTTCTGTTCAATGGATG
chr1	TACTACTGTTGAGGCATCCTATCATTTATGA	GCTAAGGAGTTGGAATCAATGGCT
chr4	CAGTCAATCTAGTTAACTGAGGTTGGT	CTCTCTCTCGATCACTTGTGGAAAAG
chr3	GGAACCTCTAAAAGGGATGACGGG	GGTGTGACTTCCTTGTAGGATCG
chr6	GTGATCATGATTCATCCCGGATGTA	ACAGCAGAAGAGCTTGTGGATAG
chr1	CAGTGTGCTATAACGTATGCACAGTA	GGGATAGCCTACAAGCAGTACCT
chr11	CTGTCTTGTAGCTGGAGTGA	TGAGTAATTTGAGCTACTTGCAGTATCTC
chr1	GCGCTTGAGACAGTGGAGATTC	GTGGTTTCGTTGATCACCAAAGTG
chr3	AGTTGCTTAAAAAGATAACGGTCAAAGTTC	CTGAAAAGTTGACAGGCTAAACACATG
chr5	CACATCCTCTGCAAAATGACTC	CCATCCACTTTTGCAACCATTTCC
chr6	CCAACAGCAAAAGGTAAACCACATC	CAGTTCAGATTAATTATGGGTCTGGGTTT
chr6	ACTGGGAGGGAGTATATATAAGCCAAA	CAATAATAAGTATAGCCACTGTTGGTATTTCT
chr4	TTTCGTTTTCTATGCACACAACCTGTG	GTTCTTTGGAGTGGAACCGTTTG
chr10	TTGCATGTTATATTTAAGGCATCCAGGA	GATACTGTTCCGGCTGGCA
chr3	CTTAGAAATGCTCTACACACGTGGAT	CCACAAGCTTAAAGGCTTTGGTTTG
chr6	CGTTAATCAGAAGAACTAATGTGCTAGAGA	GGTAGCTTGCTTGTTTGCAGATAATAATTT
chr12	GTAAGGAGAAGCTGTGTGCCTT	AGCTCGTAGTCATCCAGTTCACATA
chr10	CCCCTTGACAAAATTGAGCGA	TGTTACTAGCATGTTTAGGGAAAGTGTC
chr2	CCGGTGGGCCTTTTGTCTTTAT	CATTATACTAAAACAGAGTGCCTCAACAGT
chr11	TAACGTTGTTGCGATAACAACATTTGC	CAAGAGCACACACTACAAGGAAATC
chr5	CCTTTGGGTCACTCGGTTGTAC	GTACGGTTTCTAGCATCACTACTGGTT
chr6	TCTGAAGTTTGCACATTAATTGTTAGTG	GAGTTTCAGTATCTGTGGTCTGACAA
chr5	GCGACTTGACCACTCAACATCT	TCAATAGAATAACAAGAACAGTGCTGAACT
chr1	TGGAGCAAATAATCAATTTCAAAGTTCAGC	TGTTAGGCTGTAGTAATTCACATGATGTG

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	AGGTATTCCTTTTTGCATCTGTAATTCTGT	GCAAAGTGTGCAGGAGATGGTAA
chr6	ATCTGCCACATGACCATCACTT	TCCCTCTGTCTTAAATATAGAAGCCTAG
chr2	GTAAGTGACTIONTATCTACACATACGTGCA	TATTCACCCAAGGAGTGCTAATTG
chr1	GAATGGGTAAATTGGAATCATGCCA	GACATTACGACGAGTAATGAACAGGTAAA
chr6	GGCTGCACCGATTAGTCACTTT	AACATGAATTCTAGTTTGCAAAATGCCA
chr1	ATGATACGAGTAAATATTATTAGGCCGTGTTTT	GACAACAGAAATTGCCGGTGT
chr5	GCATCTGCATCTGCAAATGGTG	GCACTGTGCGAAAATCATTGGAG
chr4	TGCATTTCTTTTTCTGTAATTGCGCTT	CCTCCTTTGTAAAGAATCTCATTGGTTTG
chr3	AAAATGTAACGGAGGGAGTAATAAAGGATC	CACTTCTCCCTTATCTACGTACTCCA
chr6	ACTGGACTTGTCTGGTAGTGATACA	TGATGAATGCATCCTCAGATAACATCG
chr9	ACAAGTATTGGTAGCAAACTAAACATTGC	CCCTAGAGGTACAAAAGTTAGGCCAT
chr7	CACATTTAGTGCAGGACGGAGA	AAAATAGACTTTTCAAGAGGATTTGATTTGGG
chr11	TGGGCCAAAATCGACTAATACATATGTT	GATGTATGTACCACGATCCATTTCTTACT
chr7	AGATTCAATTTGATTAAAGCAGAGATGCAAC	TGAGGTTTTGAGCATCACAGAGATAAG
chr8	TGCCAAGAAATTCGAGTCACCAA	AGGAGAAATTAAATCACCTCGGATGTTG
chr2	TGATAATATGCATATGGCATACTGTGGA	CCACTATCGCCAATACACTTCTCAAC
chr10	GCCCATAATGGGTACCTGTATCC	GGCTAGGGTCAATCCACTTATAAATTGAAT
chr1	TTCTTATGGCATCACGATTTAGAGGTAAC	ACAACTGAATGAGACTTATGCTACCAAG
chr3	GGGTTTGCAGCAACAGTGGATA	GGAATGCCATCGTGTGTCGTCAT
chr3	GGTAGCGACGGCTTTAGATTT	ACTAGGAGATACACAAGGTTTGAGAAAGAT
chr1	CGACCGACAAATTAATCTATCCACGA	TCACTGTCTTGTGGTTGCAGTTT
chr7	CACGTCAGATCCTCCACATGT	TGACTTCTCTCACCTAGCAAAGCTA
chr6	ACGCCAAAACTTTACACTAGGCA	ACGGGCAGGAAGATTTGGAATT
chr5	TCTAGGTCACCGTCAATTGCAAG	CAGGAGGGAAAGGCTCTACATG
chr5	TTCTCGTCTCAATCAATCACAACATTTCTC	TTCCAAACAGAAGTATACATAACATGCACT
chr6	CTGAGGTTTGCAGAGTAGATGCT	CTTGTAAGTGCTTGGGAAAGATGC
chr6	ATGTCAAATTTTCAAGAAACAATGACCTCTTG	CTTCTTGGTCAATTTCTGGTGGTAGTTTATA
chr2	AATTCCTGCAGCTTTAATGCTACTAGCTTA	GTCAAACAGTTTGAACTCAGAAATACCAG
chr7	GTCACCTGTTAATGCATTAGTACATCAGGA	GCTATAGAACTTTTTCATCAGCTCAGAACT
chr2	ACATGGCACATCCTCACATCAA	CAAATTCACCTACCAGTACAGAATGTCAATC
chr3	GGAGCGTGACTCGAGCAA	GCGAGCTAATTAGCACAAATTTTACACTAC
chr6	GGTGAGAGCGATCGAAATGAGG	CTTTGCAATGTGCATGCAGTTTG
chr7	ATGCCTGCATTAGGTGGGATAAAA	AATTCGTAATGTGGCAAGATGACAGTA
chr7	CATGAAGGAACCTGGGCATAGAT	AGACGAGAAAGTTGTAGTTTAGAATGGG

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr12	GTGCCCAGCAACCCAGTTAAAA	CAACGAAGTGCCTCGAGAGAAA
chr7	CCCAATCACTGTGTCTCAGATCAT	GGTTATTGGTGCACAAGGCATAATAAAC
chr4	AGTACTAGAACTTTTATGCCTTGCAACT	GATGCTTCATTTTCGTACGAGAAAAAGG
chr4	CCTTACTTGGAGGCCAAGATGA	TTGCTGACTTTATCAACGAGGGATAC
chr1	CCAAACAAATCCTATGCCTAAACTCGT	GTTTCGTCAATGCCTTAATTTCTTTTCCT
chr12	AGAACTGGGCAAAGTCGATTTGT	CTTGATGAGATGCTTTCCATGCTTG
chr4	TGTTGCCAACTTGCCATTGTTC	GCCAAACATTTGATATGACTATGATGTCAA
chr12	ATTTTGTGGCACCATCGAATATGC	CTGGGAGGACCAAAAGATACAACCTAG
chr9	CTAGCTAGGGCCTTTCATATGTCG	GATCAGTCAGGCGTTGTTAGCT
chr3	CCATCCCTTGCTGGTATATGGTG	CGTAGTATCCTATTCGGGAGAGAAGCTG
chr3	CACTTTCAGTTTACCTCTTTTCAAGTTACC	TCTCAACTATCTCTACTCAGGGTTTACG
chr6	CCAGCAAGAATGCTAGAGTGCT	TCCCTTTCCAACATCTCTCCATTG
chr7	GGGCCTGGGTCCATTAATTTTATAAGG	AGTGTGCCCTTACACAATTTTCAGA
chr3	TGATTTTCCGTACACAACCTTTGACCA	GAACAAAATGGCTGGCCTTACT
chr7	GCACCTCTTCTTCCTCTTCTCCTT	GCTTATGCGTACATCTGGATTGTAACTT
chr1	CATCGGAGTTTGTGAAAATAGAGAATAACC	GAGTATCAATTTTGAGCATGTAGCTAGACT
chr6	CATACAGATTACACTTGGATCTCAGGA	GCACTGATCCAACCATATATCCAAGG
chr2	TTTGTAGCAGAACCGAGCTGTCAA	TTCCAATGTTGACATCCTCTTGCT
chr11	TTCTTTAACTGCGTACATGATCTCGT	TGTTTCATAGCTGAAGACAAAGATACTGG
chr5	ATTCTAATGTGCGCATGAACAAATACG	TTACGTGTTTAGCCAAGCCAATAAGTA
chr4	GATATTCCCGTGGGTGCTTTG	ATAAACCAAGATAAGGACAACACAACAGCT
chr11	AAGGAAAGGATCCTTTTGAGTTAAGGAAAT	TCGATGAGATCTATGGGCGAATTG
chr4	GGCAACCAAATTGTAGCTAACATTCT	ACACCAAGTCTTGCTGAATTGTATTAACCTA
chr6	CCATCCATTTACACTCCTCACT	GCTTCCCTTCAAAATTTGATTGAAATCCATT
chr6	CCTGTGGAGTTATCGAGAAAGCT	ATCTCCAATGAAATGTATTTACATTGTCTCCT
chr10	GTTTTTGTTCCTTTCAGTTCCAACCCAA	GTCTCATCCATCTCCATGAAACCTC
chr1	GCTCGGCAACGACTACGT	ACTTATGTTGCGTGCGAAGACA
chr6	GTGAACAGAGCAACCACGCAACATT	CATTGTAAAGTTGATACCTCCTGGTATCT
chr3	AGAGAGCCAGCGTCTCTCATAA	GAAGTCGGCCTCGAATCTATCC
chr5	AGCGAAATGTACACCCAAACCA	GGGCACAGGTATATAACCTCTTGA
chr12	TCAGGGATTTCTTTGTTGGAAAGGA	TGTATGGTAAGCTCAATATCTCTCGATTCT
chr2	CATTGCATGAAATTTAATGTTTACTGCCA	TCTGGCACAGCTAACAGAATCAAG
chr5	CTCTGCGATAGATTGTGGACGT	GGTAGCTGGAGCAAGAGAAGG
chr6	GCATAGACATGCCGATTGGGTT	CATGATGATGGAAGGACATACATCTGTTT

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	CGGTATTGTATCATCTTTCCCATTTGGA	CTCATCTCCTGTTCTTGCCCAT
chr2	TGTGATGATCAGTCCTAGAGGTGA	ATTTAGGAGGAAACTGCATCTATTCATGTT
chr2	GGAGGTAGTACCTTCTTTTCCGTT	CTCACATGGAGTAGCCACATTTCT
chr4	CCTTTCGATGGGTTCTTGTTTTTCG	CTGACTTAGTCAGAATATCAAACGTAACCA
chr4	TATGGAAGTTGAAGTCCTGTAAACGAAAATT	GAATATTTTCAGGCTCTGGCATATCCAA
chr3	CTGATTGAAGCTTTGGTTCTTAATACTATTC	GGGAGTAAAAATGACCCAAATAACCC
chr4	GGGAGAGAGAGAGGTGAAGAGATT	GCAGAATCGGACGGTAGTACAGTAT
chr4	GCCCATGTTTGGAGATCAATCTC	TTTGCCCTGTACTCAAAACATAAAAGTTG
chr9	AGTCCCTTAAGAAAATGCAACGAGT	AATGCTTCGCTTGTAATTAAGCGTAAT
chr1	GGCTCCTATTTGCCGCTGATTA	TCTAGCTCGGCGAATTAAGAATACAAG
chr5	ACATTAACATCACGCGGATAACCA	GGCATGATGGGAAATTGGGAAGA
chr6	GGTGCAGAGGCACCATTTAATC	CTTCTTTCTTTCTTTCTTGCTTGCTCA
chr2	CAAAGAGGGTAAGCTGAGGCTT	CCTAAGAGCGGTACAATAAAAGGCTATAAA
chr1	TCATGATCACTTGGAACAATAGCT	GAACATGAATGTGCATGCGAAGA
chr12	GTATAATTCATGGCTCGATCGAATCGTA	GTCTTCGGATGTTTGGGAGGTT
chr4	GCGAAACGGTATATTTAGAGCAGGT	TACAAATTATTTTCCGTTTGTAAGAGCAAGTTT
chr12	TGTTCTATCCCTATAGCATAGGGAAC TTG	TAAGAGCAGCTAGCGATAGATCTGTAG
chr2	CCCAAGGCTAAAGCTCGTTGTA	GCACTCGACGAGGATAAGGTAG
chr6	TATTATGCAGACACGGAAGGACACCAT	AATTTCCAGTTTTGAGCTCTGCTAT
chr9	AAAGGGTAGGAGAGGTAGCAGAA	AACATCCATGCATATCGTCGACA
chr1	CAAGTATTTCTGGTATGTATCTGGACAAGA	CAACAACCATGCATGCAATGGAT
chr2	TTTCCATGTTAAGGGATCAAATGACCA	CCATCCTACTCATTCGAACACCA
chr7	GCTTAATTGTACTACCATGGCCACAT	 AGGCTCTACCAGGGTTACTGAC
chr9	GCGCATGCACAAGTCAAAAACA	TCCCGTTTCAGACGAAATAATACGTTTAA
chr1	AGATTGATCTGGACAAAATGGCTAATTAGT	GCTATTTACGCCAAGTTTAGTTCCAAAA
chr11	GATTGGTTTACTCGTAGACTAGAGATAGGAG	CGGGTGTATTATTTGATCTCACAATCTTAGT
chr1	TCATCTAGTCTGAATCCAGTTCCACT	AACTTCTTGTTACTGAGGCTTCTAGATCTA
chr6	CGTGTCAATGGAAAACAAGGCA	GCTAGCCTGTGAAAAATAATTATTTTCGCA
chr9	GTTTCTCTTGAGCAAGGAATCCGA	TTCTATCTGCTTAACGCTCCACATTATC
chr11	CTATAAAATCATGCTACACCATTAATATCCGG	TTTTACGTTAATAAGCTTAAAGCCCAAAC
chr7	ATTCTCTGTTTGGCATGAGAGATAAAGT	CTCGTCGAGTATTTCCATAAAAATCACTG
chr8	CCATCGCACATATAGGGTCTGTT	ACATTTTCCTCACCATCCCAACT
chr8	GTTTACAGGTTTCATCATTTCTCCACATC	CCCATGGGTGTGTGTAGTTTAC
chr10	TGGTTTTTCACGGGCTTTTCTAGA	CGATCCTACACACATAGCACAGAT

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	TAGCTGCAGCTATAATTCCATGTATAACG	CCCAACTCCTGACATTGAAGTATAAAAAAC
chr3	GTAATGGTAAAAACATCTATAGCTGACCTTAGT	GGACTGGCTAGCATCTGACC
chr1	AACGAAAATGTGCATCTGTTTAGTTCCTT	GCTAAAATGAGGAATGAGGCCAAGA
chr4	GAAGAAGCTTTGCTAGGCCAAA	AGTTAGACTGCTTGGTTTTTGC AAC
chr8	AGCAGATACACGTCGATCGAGTA	GATCAGGACGAGAATGTAGTATTACAGAG
chr1	GATTATTCGGTCACTTGTTAAGGGAGT	GTTTTTCTTCTACTGCCACATAAGCATC
chr1	CTTAATTTTCATCCTTGGGCTTATACTCAGA	GCACATACACATCACTGTACACGT
chr11	TCATGACAACCACATATCTCCAACCTTC	TCTAGGATGAATCTGTTTCCTCGTCT
chr9	GTTTTTACATGCCTCAAGGCAAGT	GACACAATCACAATGTTTCCAAAAGGA
chr12	AGTTGGATTTTTATAGCTCTCGTAAACAGG	CGTTAGGTTGAAGTGTTCAATTCAATGAA
chr12	GTACGAGGAACATATTTTGTTC AAACAGTT	CTACCTGAGCGACAGAAAGAACA
chr1	GGTCACGCCCTTCTCCACTTG	CGAAGACTCACCACCATGAGT
chr5	GGGTAATCACAGAAATGGACTGATATTTTT	AAAAACACAAGTCACCAAAAATATGCTGTAT
chr9	GCACAAATTGGTACGTGCACTT	TGTAAGTAGGCCTGTGGTGACATA
chr1	GATGGCTAGTGTTTGGTGCAAAG	GCGGACAACTTGTGTAAACCTT
chr7	CGCTCTTGATCATCGCGTTTTT	CTCCAGGCCAGGAAACGACAAGATA
chr2	GGGATCTCAATTGCTTTTGCAGA	GCTGCCTTTTGACAGCAAGATC
chr2	CAAGAATTTTCAGTCGACATTGGCA	ATGAGTACCCAAAACCTCCTAGACT
chr9	TCTCAATAGATCAGATTGTCCAAGCTACT	AGAAAATAAAGTCCAGCAATCATCTTCAGA
chr1	GACAAGGTGGCCTATAAATAAGCAGA	CCTCTCACAAACCATGGTATGCAT
chr1	TCTAGAAAACTCAATACGGAGTATTGCC	AAAGGTGTTCTAAATTTTGTTTAAAGAGCTACA
chr3	GTGTGTTTAGTTTCATGCTAAAATTGGTTGA	GAGAGAGATATATAGATCGATCGATCGCTT
chr7	CATCTAGCTCATACTTGCTTAGCTGT	GACATGCGGATAGTATGCGGAT
chr4	CCCTTGTTGTA AAATGGTTTCAGTCA	TTGAAAATGCAATTAGGTTTTTGGGACA
chr11	CCTCAGTACGTCTATCACTCCCTT	TGCTCTTAGGATCTACTTATTGTCTCCTAC
chr3	TGGGTTTAAAGTTGTACAAAACCATACGA	AGTAGATCAAAGAAAAATTAGTTAATGGTGTGA
chr3	GGGTCTCCATCGTCGGATTTG	CGAGTTGCGAGCTTCATTTGTTC
chr7	GATTGAAATCGATGCAGTCAACTCG	CTCCAGAGCAAAGCTACCAGCT
chr12	GAAAATCCAAAACCTTCATCCGGTATTTCT	AAATATGGCTATCTTTAGTCCCACGTAAAA
chr10	CGAGGCAATATCGCCATCTCTT	AAAGACAACATATGTGCCACCAAGA
chr2	TGTTTGGACTTATATGACACCCGAAA	TGATGGCTTGAAGAATATAAAGCACTAGT
chr5	TGACCACGATATATGGCTAGCCA	TACGTGTCGCCGTCTGAC
chr8	ATCCTTCTTCATGGATTTCTTCTTTTCGT	TGGGTATACTATACCAATACACGACGTAT
chr6	CATCTTTGCTATCGAACC AAAACATTTG	CACTGGTTGCTAATGTTTACAATGCTA

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	GTTGCCACTACTGGAGAAGTGATTT	CACCAATCCGGACTAAAGATCCTTC
chr1	GTCTTAAATTAGGCAGCCGTACGAT	CTGGTGTTTAGTGTGGCTTCAAG
chr11	CAGACTTTTCCCTCCTGATTGGATGA	GATTCAGCAGCAATTTTGAAGAAATGTG
chr11	CCCAAGGCTCAGATATTTTCAAGAGC	GTCACCTTTTCTGTGATGACAAGTTC
chr5	AACAGAGGATTACCATTTTACCAGCA	TCCATGTGCTTCTGAACTTGATTTTG
chr4	GTTTTTAGCCAGAAAGAATTGAATGTGC	TCTTCAAGTAACACAAGGAGAAAACGT
chr9	GTCACAACTGTTTGAATTTTACATACTCA	GTTATGAACGTGCACAAGAGGGTA
chr10	AAGTCGTCCCTCCTGAATTGC	GGCTAACTCCAAGGCCCATTA
chr6	GGGACTCGTTTATGGATCTCATGT	GTGAGTAGGTTGGCCTGTTGATT
chr1	TGTGAGATGTACTCCGTATTACTAATTACTT	AATGGATAGGTCATTAACCTAGTATTTGATTCA
chr4	CATATGAACATTTATAGCCATCGTTTCGC	GGTATGTGTGTATGCATGCATGC
chr3	ACGGAGTAGTTTTACTCCTAATAGCACA	TTGTCATGTTACCCGGACTGATTTT
chr4	CAATTCTGTTTACAGACCATCAGCCTA	GTTACTAAATGGGATGTTGTACCTACTGTT
chr6	CCACGAGGTATACCGATGTTTCA	CAAACCCAACATATTAATTTATCCTGCACA
chr3	GCTTCAATCCCTGGAGATGGAA	AGGTTTCAGTGATTCACCATGCAT
chr6	CATTAAGATAATAAACCAAGCTTGGCACAT	GGCATCACTCATATTCATGAAAAATATCA
chr1	ATGAGGTAAATAATCTGGACATGGCAA	GGAGGTAGTAGTAAGCAATCCCATTG
chr1	GGATCCCTTAACCTTACAATACCGGTT	GTCGCTCGTTTGCACCTTGAG
chr7	GCACCCACTGACCCACATAATG	GCCTGTAGATCGTGTGCTACTATTAC
chr9	ACCCGCTTGACCCCTTAAAAATA	GTTACAGTGGCTTGACACATTG
chr2	ATGTATAATGTCCTGTGATTATATGTGGCA	GGTCGCAAAATGCGAAGAACAA
chr5	CTGCTCAACAAAGAAGCTGCTCAA	CCTAGGCCTCAGAGCCTCTTAG
chr2	CGGTACCAAGCTTTAGAGGGAA	TGACTGACTTATTGCATACTGAAGTTGAG
chr12	GCTTGTGGATTTTAAGCCTGCA	TTCTAGCTAGCTTCTTTTCAAGTTATTTTCAACA
chr6	GACAGAGAGAGTACATTATTTGTGTTATTTGC	ATCTATTTTTTAGTCCCGAGTATTTGAACAGG
chr1	CGTATTGTTTAGTAGTTTAGAAAAATGTGCCG	CAGTATTATATTCGCGTTCCCTGGGATT
chr7	TTTTGTGGAATGTCGTAAACATGAGC	GCTAGCTGCCAGCGAAAAAGTTAT
chr11	AGAGGAAGGAAAAATCACACGGTT	ACCCATCCTCCGTCCATATGA
chr9	ACTGTCCAGTATTGTGGTAGGTCT	GCTACTGAAGGAGCCTTCTTCTCA
chr6	GCTGTTGTTTCTCTTGCCTTCA	GTTTGGACTGAAAAACAACAACCGT
chr3	GAAGAAGCATTCCTACATCAGCCAT	GTGGTTGTGCTGCAAGACAAAAG
chr1	ATATGCCGCTTGCTTGACTCT	GCATGATGCTCAGCATCCCTT
chr2	CAACACATAAGCTGTGTGCACTT	CCCTACATTCATCCATGTATTAACATCC
chr3	GTGGATATGCAACGATATCATTTTTTACTCC	CCCGTCCTAAAGTGCTTTTTTGAA

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	TCCTGTATGTAATGCTAGTATTTGTTAGCG	CTCACAATGAATTTTGCCTTAACTAAACCT
chr10	TCTTAATCTTTTGAAAATTTGATGCCGCT	ATCCATGTACGTAACTCCAAGCC
chr8	CCGGCACCAGAATAATAAGCAG	TCATGCTGCCTGCCCTTATTTT
chr1	TTTTTGGGTAAATTTTAGCATCACCAGA	TACCGTGTAAAATATTGGCAAGGTCTAAA
chr12	CATCAGTTTCTGCTGTCCTGGTA	TGGTTGTAGGACATCCGGGTATT
chr6	GTCATCGAAGGCAAGACTGGTT	GGTTCATGCAGTTTCTGACCAT
chr7	GCAAGATCTGCATATGTATACTGATGGT	GCTTTTCGAGTTCGGTAGCTATATTTTAGA
chr9	GCTAATAAGGTTTATCGTTTTGTAGCAA	GGAATAACAAGGCCATTGTTACC
chr6	CGATCGACTTCAGGCCTTGTTT	ATGCTGGCTACAGATTTATAGCTCG
chr1	CCGTGGAAGTGGGACAACAATT	GCCAGACACGTCAGAGATTCAAC
chr2	CTCTCTGCTGCAAAGAGCTTCT	CAGCTAGCCACGATACCTGATAC
chr8	ACGGCACAACAATAACAACACATG	GGATCTGAGCGGGATCAAGAAC
chr8	CGAATAGCCTCCCTGTGACTGA	GTTCTTCCTCTGCTTCCTCTGTTC
chr3	AGTAGTAATAAGTCATCGGAGCGAGTA	CTGGCAGGTAGGGCAAGGAAAAA
chr8	TTGCTGACTCAAAGTCAAGAGCT	GTTGTGGTTGCCAAGTGGA
chr5	TTGTTGTAACCTTGATGTTACAAGGTAGT	GGGTTTCCAGCTTCTAGCTTTTTTATT
chr9	CTTGAACATTTACATGCTCACCTT	CAACAGTGTTAACTGTCCGTTTGTATAC
chr5	AGATTCATTGATTGATTGATAAGAGTACATGGG	GTGCTCGAAGACTATCTGTCCG
chr4	GGTTTTTGGATAGTGGTTGGGAGTT	CCTGTCGTCCCTGTCTCTTGTA
chr7	AGATCTTCATAAACGTCCAGGGATCT	AATCAATTAATCGTGCTTAATCCTGTCTTG
chr4	GGATATCCCAACCATAGTATTTGTAGAGC	CTACACTAGTAGTCGATTGCGTGTT
chr8	ATGTTGATAATAAAATTGAAGCCATACTTCAGC	GGAAATAAAAGATCTTTTCACTTAAACATTGGC
chr1	AATATGTTCTCTCTGTTTCACAATCTTGGA	GGGATCATGAGGTCGATCATGTTG
chr6	GCAGTATATGGATGAGAGACGAATGAAC	GTTTGACTTGGCATAAAACAAAAATGGC
chr8	GTACGCTAGAATTTGTCTTGATTGTCAC	AGTCTTTTTTGGTCTATTTGGTTAACCGA
chr2	GCTACCAGCATTCAGCCATTCA	GATCCAAACAAGGCCATTGACAG
chr1	TGTCAATGTCAGGTCGGGTACATA	TATTACTGCTGCCTTCTAATCTCCATAGA
chr10	TGTGTCGGTTAGACCGTCTAGT	TGGCCCAATCTTTTAGTGAGTTAAGATAAC
chr2	TAAATCAAGCTTTGCAGCAGCTAAAG	CCAATCTCACTTGCACGAGGTT
chr8	TCTTCACATGCACTCACATGCA	ACAAAAATTCCGAAATTTTGGTCTATTGG
chr1	TTTTTGCCCATCTGAAACAAAATGTATTTT	GGGCTAGGGTTTGGGAATAAATCAG
chr2	CCACATTTGCTCGGTTTTTCGTAAG	CGAAATCTTGTTTTTGACAGTGGACAAG
chr2	TCAAGAGGAAAAATAAGCATGAGGCAA	TCAGGTCAGTAGCTATAGTATTCAAATCGT
chr4	CCTTTAATCACAAAGGAAATATCCGCGTA	ACACCATGTGGAAACTCCACAAA

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	CACAACTATCGCTTCATTACTCCATCA	GACTTGGTATAAGTTTCTGGTCGGAAT
chr12	CCAGGGAATGTTTGGACATGGT	TATGTGCAGGAGGCCAACAAGGT
chr6	TCCTCTCCAAAGATTCGACAAC	GCTCCCTTCCTTCTCTGCAAAC
chr6	ATTGCGATTTGTTTTTCGGAAACAGTT	TGACGGTGCAATACAGAGGAAAAA
chr1	GTATACGCTACGTAGAACAAAACCG	TCGATTCAAAGTACCCTGCCAAAA
chr11	TCAATCTCAATCAATCACCATTACCAAGT	GTGATGCTTGAAGTCATTAGGAGTCA
chr12	TTAATTACATCGATCAATACGTGTTGCCTA	TATGCTCTGTCACTTCGTATTATGCG
chr12	AAAGGATACTATAGTGCATACACCTTTCG	GAAGTTAAATGTTATTGTTGTGACCCTGAA
chr1	TCAGACACGCTGCATCAATGTA	CGCTTCTCTTAGGATCAATTAGATAGAGGT
chr12	TACTAGCTCCAAATCATCTAGAGCCAAATA	AGAGAGAGTATTTGCTTAGGAGTACGT
chr7	AAAAAGTCACTGTGTGCAACATT	TGCTTCGTCGAGGTAAAATCCTTTT
chr12	GGGCCTCGTTGGACTTGATC	CACGACCTATCTGGCACCAAT
chr3	AATTAATCAGCTCATTAAGTGGTGTGTTAG	AGTGTATCATGCATCATTTGCTTCTTTG
chr6	CACAGCCACAACGAGAATGTT	GCAATTTGCTCTCGGTCTGGA
chr6	GAAGTGCTAAGTATATACTTCTTCCGTCA	TTTAGATATTAAGCCCTGTTGTGCCTT
chr4	AATGGTACTACTCATATGAGGCTAGGTT	GCTTCATGATTTGACAATATAATGCTACAT
chr6	CGCTCGGGCTTTGATGTCAA	GCCTCACCTCCACGAACATC
chr8	GGAGGCCAGTGGTACGAT	CCTAATCTTATCTTCTTCCTAACCTCTCCT
chr10	GGTCATGTGAATATAGCCGGTGAT	CTGCTAATCACATAGAAAACATACCAAACC
chr8	GAGATAAATCGGAGAAGCGACAAGT	CTCCCTCCATCCCAAAGTAACTTTATAAAG
chr8	GTTTTTAGAGTAAATTGCATCAACGGTACA	TGATGGCAGCACCGGTTC
chr6	GCAGAAGTACCCAACATGCTTG	GGAGGTAACTTGGAAGTTGTCTATCATTTT
chr6	CCCATCTTGCACATCCTCTTGA	GGCTAGAGGGATCTGCTCTGAA
chr9	GCCTCTTCAGTTTGGTCCATTTTG	GGCATAATCCTGTTGCACAGATG
chr1	AATTTTAGATTTAACTGCGATGCATTCGA	CCCGTTTCGATAATCGAATTTCAATTACG
chr5	AATTAAGTCTGTCTCTGTGGCGA	CGATTCTATTGAGCCTAATTAACCCATGATTAT
chr1	GCTTGCTGAGCTGTTGTTTCAT	GCGTTCCAGGAGCACTAAGATG
chr9	TAGATTTTCACCAATAAGCTAGCTTCCTTT	CCCTTCATATTTCTACTACCGCTAACTG
chr12	GCCAGCAAGTAATAACTCTGAGCT	CAACAACAAGCTCAATTCCCTTGCTT
chr8	TTTGCTAATTCGTGTGTAATTTAGCGT	AAATAGTTGTTCAATCCTGTTTTAGCGAAG
chr3	TGCATTCGTGCGAGAAAAATCC	TGCATGCAGACGAGCAGATAAT
chr5	GCGTGCATGTTTGTTCGTACTA	GCCGTTAAGCCGTCACATGTAT
chr1	TATAAGTTGAGGTGTTGTTGAGTGCA	ACTAAACGGAATCTTTTTAATAGCTCACCA
chr2	GAGGAGGGAGGAGGGTAGATC	CCCGGAGGCGGTTTTATACC

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	CGCCACTACCTCGCTTGT	GACTATTCATCTTTCTGAAAAATGTTTTCACAA
chr3	CTGACTGCTCAAGCCCAAAATC	AGTCCCAACAAGTCTCGATCTATATTC
chr6	CCTCGGCTCATCCTCTATCTGT	AACAATCGCACACCTCACTATGTTA
chr3	TGAAAGATATATTTTGGAGACAGCGTCAT	GTGATTCAACATATAATGGCTGATAATCCC
chr1	GGATTTGACATTGCCTTGTACTAACACTTA	GCATATCATTTTCAGAGCTTACACAAAGT
chr5	TGTGGCACATATGCACACCATA	GGTTCAAAAATAAACCCCTACCCATTGGGA
chr3	TAACGTATGTTTCAAACTAAATTTGTCTTTTC	CCCTCGTTATTTGTATACCACTCAAATAGTTAT
chr11	GCGTGGTGTTCGACGAAAC	CTTCCTTGCCCTTCGCTGTCTTA
chr12	GGTGGGCATGTCTTCTTCGATA	GCCAAATACCCATACTGAGCCTATTA
chr3	GCTAATGAGAGGGCTGTGTTCT	CCCACAAGTAAATCGTTAATTTGATGTGAA
chr11	TTCGAACCCACGCGCACTC	AATTATTCTTTTCTTGAGGAACAACAGTTTCT
chr9	GAGATTGATTGAGACCCATGCAT	AGCAGTTTGAAGAATGTGCTAATGAAA
chr7	CAACTTCTTCTGTGTTTCTAAAAGCGAA	ATGTGGATCGAATTTAAACTTGCATGTTT
chr6	CTGGCTCTCACCATCTTCTCAG	GCTTCAGCGGGTATCCGAATAAC
chr1	GAGGTGCATATGACCCAAATTTGG	TTGTACTCAAGAACTGTCTTCATCTTCG
chr2	GGAGCATAGAAGCACTTCTCACAAA	AAGACACATTTTGGTATCAATCCAAATTC
chr5	CCACTTATCTTATTTTGCAACACATCAAGT	CATGCCATAGAATAACAACTACATGGGTA
chr11	TACACCAACATTCTCTTCTCAACTAATCAG	CTGTGCGGTGCCAAAAACAATAA
chr6	GAAACATCACGAGTATAATTGCTGAAACA	TTTGCAATAAATAACGGAAAATGTTAGCGA
chr5	TCTAGCAAATGCTTCTCAAAATTTTAAGGC	CGTATGGTGGAACAGGGTACTCTA
chr1	CCCACACAACTACGACTGTGTT	ACAGTTTATGCGTCTTGCACATA
chr1	CCAATTTATACACACACTACGTCTTGGA	AAATTCTAGATGCACTCACAGCATTACT
chr4	TCCCTAAACAGAGGTCGGGAAT	GAGGAATAGCCAAATAGGTGGAATACC
chr3	GGGTGCCCAAAAATTTGGTTAAGA	AAGTGGTATCTCATGATACCTTCTTAAGGA
chr7	GCCGTAGTATACACCTCCACCTT	CCTCCTCCTCCAAGATTCCCAA
chr3	GACGCAAAACGGGATCAGAATC	CCGTAGTTAAGCTGAAACAGGCTA
chr5	TATGTATCAAGGTGATCCAACCAAAAAGT	CCTAGCTGGGATCGAAGCAATG
chr6	CCTCCGTCTCCGAGTGATATCA	CGAATTGGTGGAGAGAGGTGAGA
chr9	AGCACATTGTATTTTAGACTTAGTGGTGT	TGAGTAAGGGCAAAAAGGACATTTTATACT
chr6	CTCCTCCCTCTACCGCCATA	TATACCTCAGTAACCGCACGACTAT
chr6	CATCCGAACGTAAAGGAGGGAT	AGTTTAAAAATTGCAAATGACACGGCTTA
chr12	GGCGTTTAAATTTATTTGAGCATGTAGGT	GTATTGTGATTTTTCAGTGCTAGTTTGTGAT
chr2	GGATTTTGCCGGAATACTCTTCTAAAAA	CAATGGAATCCCTAATCTATATGCACATCT
chr6	CTGCTCCTCATCTTTCACCCAT	GCAATCTGCAGGACATCAAGGT

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	GCTCGCTGTAAGTGAAAATCTTTGG	TTCAGCAGCGGCTCAAGCAAAT
chr11	GTCCATGTGGTGTGCATGTAG	AGAGGTGGCATTAGAAATCCATAGCTATA
chr2	AAGTTCGTTCGCTTTTGAAATGAAGA	GTCTGACTTTCATCTCAAGTTAACATTCG
chr4	CCCTGCAGAAGTGATATTACCTGT	CTATTCCAATGGCCGATTTCAACTAAAA
chr5	TTTTTGACGGAGGGAGTAGTAATCAA	GACGGAGGGAGTACTAGTAATTGC
chr1	TTCATGCTAACCACGTGCACTA	TTTTCCCGGTTTTATTTTTCTATAGGGACA
chr11	AATTCCCTATCAGGTGGATTCTATAGACAA	ACTCCCTGTTACCTCCCTTGAT
chr11	ATGAGCAAGAGCTCATGTGGT	AACGTAGATGAGGACCTGAGGAA
chr9	CCAGATTACCTCCTCTCCTCAA	GATGGACGTCAAGATTCGTGCTAT
chr1	GAGGGAGTAGTATGGTTGTTTTGTGTTAG	CTCTTGCTAGGAGTACGTGTGATGTC
chr1	CGATCGATGAGCACTTGCAAAGT	TGGAGTTGGAGAGACGTATATATGAGAAGTA
chr1	TTCCAGTTTCTCCCTTTTTAAACTCA	TGAAGTGTGTTGTTTCTGTGTGAAACTA
chr1	GATGTATGGTCAAACGTATCTCAGAAAA	CAAACGTGTGTCAGTCGCAATAG
chr1	TTTCAAGGTATCATGGTACTACGATGTAGT	GGCTAAAGGTCAACTGTGATGTGTAG
chr1	AATTGCCATTGCTCTTCGCTT	GCTAGGTTTTTCGACGGTGAGGTTA
chr1	TGAGGATGAACCAATACTGAAAAA	TGAAGAATTTTAATTGGCTTTTGGTCT
chr1	CTCCCTCTTTCTGCCTTCCTATG	TTGCGGTGCAATTAAATAAGTGC
chr1	AGCTTCGTGCTCCAGCTCAT	TGCAAAACGAAGAAAATTCTCTCAC
chr1	TCATGCTCATGCATGTGCACT	ATCCTCAATGACCACTAGTCAAGACTC
chr1	AATCCATTAGCTGGGCTCTAGGTT	TCTCGTAGTTTGACAGGCGGAAT
chr1	TTATTCTGGTCTCATGTGTTCTTGA	CACTGAGTAGAAGGCAACTACAAGAGGTAG
chr1	CCACGAGCTCCATATCCAGTTG	CAGCCTCTCCATCCACTCTCTCTAC
chr1	GGATTCAAGTCATGGCAGATTGA	CAAAACTCAAGACTGAGCAATTCTG
chr1	ACAGGAAATATGTGTTCAATGATTGC	TTAGCAAAATAGTAAGGACACTACTGGTCA
chr1	CGTAAGCCCGTAACAACCGTAA	GACTTTTGATCTCTTCAGGCATTCA
chr1	ATACCTGGGATTAAGTGATCAAGCC	CTAATCCCTCACCTGATTATCAC
chr1	GCAGATTGCTGCTGCTACAGTT	GGATGGAGAGAGCATGATGAAAAA
chr1	TTTTTTGAAGATACACGAGCCATAGAA	TTAGCAGTGACTAAACATTTTTCCACA
chr1	TGCAACGTAGTCCACATACCAA	GCACTTGGAGAACGGTAGTGGTATT
chr1	ACTAAACAAGCCACAGTCGTAATG	CAATGAGTACGATGGTGTAATTAGATTCA
chr1	ACCGAGGGTTTTCTGTAAAGCAC	TTGACGCATCTTCTTCCCTTCT
chr1	GCCTTCAAGGGAGGGAAAGCTAC	GTAATGATTTTCATAGAGCACACTTTTGTG
chr1	TGGACCACGATATGTGTAAATCATG	TCACCATGTTGGCCAAAACTG
chr1	CGTCTTTTCGTTGTCGTATTGAGG	GCTAGGCACAATAATTCCTCGAT

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	ACACGGGGATGATAAGGTTTAATCT	CCACATCCTCTCAAACAATCACAAA
chr1	GCAAGTTGTCCAGGGCAAAATATATA	TGGAAGTGAAGGAAAAACAGGAGATA
chr1	CCCACAAACCCTAGGAATTTTGTTT	CCCAAACCTCCACCTCCTCTGAGT
chr1	ACGCCATCCATCCGATCAT	AATCCTTCTTTATCTCCTCCTCGTGTA
chr1	CCATTCATATTGGTTCTACATGGTACATG	TTAAGTTACCTGACGGTCATTTCAATTAAG
chr1	TCAGGTATGCACCCATTACGAAG	GCAAGCATATCACATTTGGAACAAT
chr1	CACTACTGCGGTTCTAAAGGATATTCG	GAACGAATTAGGTATATTATGTGGCCTT
chr1	CACATGGATTACCTCTGTATGATTT	GATCGGTGTAGCCCAGAAAATG
chr1	GGGACTAAACTGGACTTAGGCGAA	ATAGCCTATTCGGTTTGATCAATTGT
chr1	GGTTTAAAGATTTGTGCGCGAATT	ACTCCAAACTGTACTGTATAAGCCT
chr1	AACTCAACCCTTTGATGCAATCTG	TGATTAAAAATAGGAATTCAAATTGGTGCA
chr1	GCAAGCAATCAAACACCTGCAT	CGTTTGGAGGTGCCATTTTCCT
chr1	CGCCTCCTCCTACACCTACTGTT	CGTCGTCGTAGAGGAGATCGAA
chr1	AGGTGTACAATGGGACGAGATTAAAG	GATTTTATTTAGGACCACCAACTGCTATT
chr1	GGGACTTTGGGAGTTTGGGAT	CATCCTGGTTCTCTCGACCAA
chr1	TCGAGGAAGGAGGGAGGAGTT	TGCAATATATAGTTGCACTCACTCCTCA
chr1	TGAAAAGTGCACACTTCCACATG	AGGCTCCACTTCATGTTGTTTAAATC
chr1	CATAATCACGCCGTGAGAGAGA	AATTTGGTTGTACTGCGTTCTGCTA
chr1	CCAACTCCAACTCCACCCTTT	CGGAGTTGGCGGTGACAAAGT
chr10	GGACAAAACCGCTCTGGATTAGA	AAAATTGACCCTAGCTACTCCATTCAT
chr10	CTCATACACCCTCCTGTTTCGATCT	GGTTTACCTCACATATACTCTGAACAATGA
chr10	TCCGATGGCGACACATATTG	GAAAAGAGAAGCTAGCTCCAAGCAT
chr10	TCCGGCTCAAATATCCGAATC	TTGTTGTAGAACACCGAGTTGGAGT
chr10	AATTGCGCTATTTTGTACTAGCTTGTG	AGGTTGTCTCTTAGGTAGACCCAGATAATAC
chr10	CGAATCGCTTCTAGACCTGCAA	GCAATAATTCCGGGAGTAATTCGTACTT
chr10	ACAAACTCCACTCTAGCCACCTCTT	GTGAAAATCCAGTCTCAGCTCTCTTT
chr10	ACAAAAATCGATCCATGCCACTA	CAGACGTAGCTGCTATTGGGAAG
chr10	ACGTACGTGTCCAGCGTTTACAT	GAATCATGTATTTTGTGATCGGTT
chr10	TTGTGTAATGCTCCAAAAGGCTAGTA	CATGTGTGAATTAAAGGAAGCAATCTTAGA
chr10	CAATAAATATCGTGCATACATGCATG	CATCAAGCATTTGTGTGATATATTGTCTT
chr10	AAGCGATGCCATATAGGGATGAAC	CCTTCCTTCTCTTCTAGCATATTGTGC
chr10	GGCCATAAGAAAACCCTCGTGTT	CCGGAACCTTTTGGCAAATTAATA
chr10	GACCCTGTAACTCAGCTACAATACC	CACCACCAAGGACATAAGCGA
chr10	GCTACTCGCAAGGCTCAACTGAT	CGGTGCTGATGCAGCATTAATC

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr10	CGTAGTTGCTGACTGTCGTGTGAATT	TGCAGCAGGTGCGAATGTATTA
chr10	GGCTCATCAGTCCTTAGGGTGA	ACCATGCATCGAGAAGAAAAGG
chr10	CCGGACTCTTCCCATAACCAAGA	GACATTGGCATATGCTCAACTAAATTTAT
chr10	TCCCACCGATGCGCTATACTA	GCATTGATGATGAATGAATAACGG
chr10	AGCACATCGTTTTAGTGGAATTTCTG	TTCTTGTTCACATCAATATTGCTTGC
chr10	TGGGACGGAGGGAGTATGTTATTAC	CAAGAGCACCAAATTTCTCAATTTTG
chr10	CACTGTGTTAAACAGTGCTACACAAACA	CCATACCGAGTGATCACATACATCC
chr10	CAAGAGTAAACAAAGAGCAGTTTCTTACAGT	TCCCTGGAAATTGTGAAAGCA
chr10	AAAAGAGGCAGTTTTGACCAAGATAAT	TGTTGTTTTCGGTACTGTTGTATTGG
chr10	AGACCCTGCAGCAACAATTTCT	AGAAATGAACGACCACTTTGGAAC
chr10	TCTCTCTCACTCCTCCACCTCAA	TCCCTCATCAACTATGATTATAGAGCATC
chr10	CAAACCGTTCCATATTAAGTTGAAGG	GCTGTGTTGACAGCTGTCATAGTACTTCTAC
chr10	GACACAGTGATGCAATTTGTGGA	CATTGGCTGCTTTCTGCATAG
chr10	CACCCGAGTGTGTCTAATTGCAG	TGCGTGTAGCAGTTAAGTGTAACAATATAC
chr10	CAAACATATGTCCACCAAAAAGAACA	GGAAAAGAGGCATTGCTTATGGAG
chr10	GGACTACAAATTTGACCATCAGGACA	TTTGCATCTTGCATTTGTAATGTGT
chr10	CTGCTGCTGATTCAAGTTGATCG	TGCCATTTCATTTTTGGTGTGT
chr10	TGCAGTATGTATCGGATGATCCA	GCACCAACTAGCAACCTTGCTGTAC
chr10	CCGGTCGGTTTTCTAACATACA	CTATAAAAAAGTAGTAGCGACTGCCACAT
chr10	GGTGTGGTTCTTTAATTAGCACCA	CATGCCATTTACAATCTTCGTCTTCT
chr10	CTGAATTCTGAAATACTTAGCACGGTT	TGCAGATGAAGCAAGAACTTATAAACTG
chr10	CACCCGAAAATAAGTGGCTGATA	CATCAATTAAAACCTCGTTGCGAT
chr10	AACTCCCTTACCTAGTTGTTCTCTTCG	TGTTTCTCTTTCTCTTTCAGCTCAAAAC
chr11	TCGGCAGGCGTATTATTTTCA	AATGGGTCCACTAAAACCAATGG
chr11	CCGCCTGTTGTTGATGTTGAAT	CAAATCTGAAAAGAGCAAGTGTGGTAC
chr11	GTCCAGTCCATTACTCCCTCCAT	AATCTAAACACGGCCTCTATATTGCA
chr11	ATCACGATCAGGATCCTCAAGTTT	GCACGCAAGAAGTATAAAACCACAG
chr11	GTTGCTATTTGTTGAAAGCTTTAGTCG	TTACCTATAGCGGTTCTCAGAGAAGATT
chr11	GCTAAGCGAGCGAGGTGATATG	CATAGCGTCTTTACGTACCTCAGAGATAT
chr11	GGGTTATACTGCTAGGTTGCTACAA	TAGAGAGACTTACTACATGGCAACC
chr11	GTGTGAGCAGCGGAAGAACTAAC	GCACTACTCAATGATCCAGCATATTACAC
chr11	GCTTACTTTGGATGAAATTTGTGTGTG	TGGCCAAAATGCAGATTTACTAAT
chr11	CAACAATTAAAGGCTCCTGTGTACGT	AAGAACCAGAGAAAAGTAGACATGTAAGTAT
chr11	CCACCGAGACAGGGAAGATG	AGATTTCGTGTAAATCCTTAGAACCGTAA

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr11	GGAAGATTGTTGGGTTTAGTCCCA	CGTGTTTCCTGCTCCACTTGTCT
chr11	TGCTGAATCTATACTGTTGAGTTTGCA	GCAAGTCTTTTCCTTCTTCACATGCT
chr11	CAACAACAACAACGATGATGA	GGTGATCGAGCTGCACAACACTACT
chr11	TTCATTCATGCAGACTCGCAA	TGGAATGCATGTGTCGTTCTGA
chr11	CATCGTTCGTCAGACTATGCAGA	AGAGATCCAGGAAGAACTACCGTGT
chr11	TTCACGGGAAATTTTCAGAGAGTACA	AGTTGACTTGAAGAACTCAAAGCGA
chr11	CGGTTGGTTAATCTCTCGGTAGTGT	AAATGAGCCTTTTATGTCCAGAAAATAG
chr11	CGTATTCTGTCTGTGTGAATTTTCG	GCAAATAAAACAAGTGCCTGAATTACA
chr11	CACCTGCAAACTGGATGTTC	CTAGCAAAGCCTTCTTCATGCTCT
chr11	GGTTTTTCCAATCATCTCTGTTTCA	AAGAGGAACATGCTGAGACTCTTACC
chr11	CCATGTACAGTATTATTACATGGGAGCTT	CTAATTTAGCACAAACAGCAACATAATGAC
chr11	CATCTCCTCCTGAACACAACCTTTGAC	GCATGAGTGAAGATGTCGATGAGT
chr11	CCACAAAACGTGCGGTAATAATCAGG	GCTAGCTAACCAGATTAGTTCCTTGCTATAA
chr11	CAGCGATGGAGAGTGAGGCA	GGGAAAAAGTTTATATTACCTTTTGAACCTT
chr11	CGTCAACAACGGCAAGGACAT	CAACCTGCCTACCATGGTAAAAATAA
chr11	TTTAAGGATAACCAGATAGTTAAATCCGGT	ACGAAAGAGATGCCAGAAGGAGA
chr11	TGTTTGTCACCAATCTATCCTGTAAAAGA	GCCATGCTGAACTGTTTCGAGAT
chr11	GCAACAGATGAACCGGACAATG	GTGAGGTGTCTCCATGAACTGGT
chr11	GGCCCATAGGGAAGCATTTCTA	GCTTACTGGCTTGTTTGCAAAAG
chr11	TCTTTTTGTGTGTAGGACAAAGGTG	TGGCTCGAAATGTCAAACCAAATTA
chr11	AGGTGACTATGTCTACAAACACCTATGAAC	CATATGGTGGCCATGGATTTAATC
chr11	TTCTCTGAGTGCAATCAACTCCTCT	AGTTCCTGCCTGACAGAAAACCT
chr11	ATGATCAAACGTCACATCAAAAGC	CGAGTACACCGTCGTCCATGT
chr11	CGAATTCAGCTCGATTGCAACTTC	CCTTGGGTTTCACTGATCGATC
chr11	ACACACCCACTAAGACAAATCCTTA	TATGTCCTGCCATGCTCCTTCATC
chr11	CACATGTGATCGACGTCTTAATAGAAG	TCACCTCTAAATTCACCACTCTTCAAA
chr11	TGTTAGTTGTTGTTATGGGTTGTGTATTTG	GGGTTCTATCTTGTCTGCTCAAATTACA
chr11	GCGTATTTGTTTTTTGTTTCATTGATAC	CATACACCAAAAATGATGACTATGTGCT
chr11	CCTCTTCCCTACCGGTTATGCT	CGACACCCGATGGGTTTTTACTC
chr11	GCAAGAGCTAGCCACGCAAA	CAGCTCAATGCAACAACATATATGGA
chr12	CTATCTCCTAGCGAACGTTAGCTACCT	ACCGGATCTGGTTTGTAGATAGTAAAAA
chr12	CAGTATGATGTGTATTGCAAGTATGGCTA	GAGGACTAATTTGTCCATGTGCATTT
chr12	TGCCTCGAGTTTAGTGATGTAGGGT	TTTACGTCAAAGGAGTTGCTTTCC
chr12	TGCAGGATAGTTAGGAGGAAAATTAGATG	AAAACCTCAAGTGGGTGTTCAACAA

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr12	CAGGCTCACTGTAAACAAGAGACTCTACT	AATTC AATTTTGCTTGCTGATAAGATG
chr12	CCCAGCAATGATAGTTTGTA AACTAAATCA	CATTCAAAAGAAGAAGAGGACGAGGT
chr12	TCTATGGCTCGTGGGCCATATAA	GACCTAGCTTGTTTCCATGGAAAC
chr12	GATAATCCTGGCCTTCTACTTCTCCT	CGCATGTGCATTTTGCTATACCTC
chr12	TACGACAATCTAACCTGCCCAAATA	TCCCCTAAATATGGGCATTGTAAACA
chr12	CTATTGGCTGGTTCTGTAAATTTGGT	CATTATCAAGATACAGGACATTGTCTTGC
chr12	TCTACTCTGCCTAAACAAATCTCAACC	CCTCTAATGTTCTTTCAGTCACAAGATCAC
chr12	TGGATGACGCATCAGAATGTCA	GCTGCTGATGTTATATGGAGGAAACTATC
chr12	CCAGGGAGGTATATTTTGGATGGA	CCCTGTCTCAGTCCCTCTGAAGGTT
chr12	CCCTTCATAAGAGAGTAATTCTGGTTGA	CGATGTAGACATTACATGCTTGACCTTAC
chr12	AGACTTTAACATGCACCTCATGCA	AAAGCCTTTAGGAGCATAATATAAAGCC
chr12	ACATCGAATTAAGGATGCACACAA	GCCAAAATTTGAATTTTAAACGCTAA
chr12	TGCTTGATGTAAGTGGCAACCAT	GTTTCAGATAGTTTGATCAATTGCATGA
chr12	GAGAATGCGGGAATGACTTCAC	CACAACCTTTGCATCCTTGTC A
chr12	CAACGATGGCATTTGTGGGA	GCCACGCCCATTTTTAATTTTAC
chr12	ACAAAAATTGGAGATGATGCGAAA	CTTTATTACCGTGATCGAGTCCAAGA
chr12	AAAGCAAGCTTGTTCAGGACAGTTA	CCAAAGTAATGGTAAACGGAAGCTT
chr12	CGCAGCAAAGATTCTTCAGGTT	TTCCACAGGTGAAACTCGTTGA
chr12	CACTGTTTGTGCATGGCTGATT	CACACCAGAACCAGATCCCTCTT
chr12	CCTTTTCGAGAAAAAGGAAAATGTCA	TTTCAAGATTTGCTATTTGACATTGCG
chr12	ATGAAAGCGATGGAAAGAATGTG	TCGTGAGCATCCTAATCTCTCTTTC
chr12	AGAACTGCTAGAGATGCACACCAA	TGGAGTGCTGAAACCTGATGTG
chr12	TGGATGTAGAGGCCTGTTTAATTCA	CTTG GTTTAAGTCGTCTGAAGACCA
chr12	GCACATACCGATGATGCAGAAGTAGA	GGATGGATGGGATACCTTCCCTT
chr12	CCACATTAATGTTGTGATTACCAACG	CACTTTCAA ACTAAACCTACCTAGCTAGCTT
chr12	GGATT CAGTGGCAGCATGGTTA	AACCTCTGAGAGACATGACACTAAACC
chr12	GGACCAAGCAACTTTTGCTTCA	ACATGACCATCTTCTGAAACTACCTT
chr12	TTATACTTTACAGCTGTCATGTGAACAAGAA	GGCCTTGATGACCATAACCTTTG
chr12	GACCAAATCGGGATTAGTCATGAAC	GACACATTTCCGTCTTGTTTCATCT
chr12	TCAGGGACAAACTTGATGAGACCT	TGCTTCAGGAGAGAAGTTGATGATG
chr2	GATATCCACTGCATTGTAAGGGAGA	GTCAGCTCTTTTAATACCTAAATGGGTTT
chr2	GCTTTGACGATGCAAAAACGA	GGCCCTAATTATACGTTATACGTTAATTGG
chr2	TGGCACAATTATATTTCCATTGCATT	GACCACCTCATTACACTAATCCCATT
chr2	TGATCAATCAACTTGCTGTATACCACA	GGGAAAAATCCAAATAAGAACCAAA

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	ACAGTATATGTGCTCTAGAAACATCGAAAC	AACAGAAAGCAACTTCAGTTAAAAGACAC
chr2	CACTGTCATCTGCTTATCCAGCTGT	ACATAGGATCTGAGCAGAAAAAGAAGG
chr2	CCCTATTCCGGTCGATCGAT	CATCATCGTGAAAGGTGTAGTAGCTCT
chr2	GGATGTACTTTTCAAATTAGGTCGAGTGT	GGTCGCCCTCATGGTAGAACTG
chr2	CCCGCCTCAAGATGCATGG	CAAATTCAAGTATAGCCTAGTCCCGA
chr2	CGAAGAACTTATTTGGACAAATATGACCA	GGAACATTTGGAACCAATGAGAAA
chr2	TCTGTATAGCCTCAGACTGCCTTGA	AGCGGACAATTTATTTATTACTGTCCA
chr2	TCAAAATGGTAGAGAAGACTAGCTAATGCT	ACCCTCGTAAATGTCGTGAGACA
chr2	TTTTTCCCTAGTAGGTGTAGATATCTAGTAGCTC	CATAGATATCCCATTTGTATGTCAACAAGA
chr2	CGGCATCACGGACATCTACAAC	CGAAAGTTGACACCGTAGGAGAA
chr2	TGGAATTAAGAGGAAAGAGAGGAATCAC	TTCCACGCGGATTTGCTTTT
chr2	AAGAGGGATCGATCTACCCAGCTA	TGGTGATCAGGTAGTTGTTGTTGC
chr2	CCCACGTTGATTGAGTAGATGGA	CGTAACATGCTATTTCTTTGGAATAGAGGT
chr2	AAAAACTTGCACGCTCAATATCGT	TCATAGTTGTGCTTAGTGGACCTACAAC
chr2	TGCATCCGCTGATTGTATCTCC	CAAGTAATCGCTCGACAGCTTCATC
chr2	TGGAGGAAGTATCTCATGGGTATTG	CCACATCATCAAACAAATATTAACCTTC
chr2	CAAATATATCTCTGGCGCTTGGA	CCTGCTGTTCTTTCTTCAGTTTCGT
chr2	AATAACGACATAGACTTCTGAGTGACATTTTC	TGGTCACAAATACTAGTTGCTTTATGCATAC
chr2	GGTAAAGAACATACCCATATCCACGT	TGCACCAAGAGATGGCAATG
chr2	CGACGGCATTCACACGAA	TGGCGTAGCAAAAACAATGTCAC
chr2	AATAGACCAGCTAGAAATCACAACATATGC	GTCTTGATGAAAAATAGTTGCAACTC
chr2	GCTCATCTGATCCGTATACTCCGA	GAAAGACCGAAAGAAGAGGAGGAT
chr2	GTCCAGTACTAACCCTCAGATTTTCTAGA	GGCCGGTTCATACACGAGG
chr2	TTCTGATTATGACAAAGGTGGCTATG	GGAGCTGGTTTGAAGTGGAATTAATTAT
chr2	CGTGGAGATAAAATACAATGGCCC	CACCAATAGTCGGATTCTCTGCTATA
chr2	ATAGTCTGCTATTGTACCTGCTCTTAGAAAAG	CAGTTTGCCCAATTTTCAAATTTCTTA
chr2	CATGTCAGCAACACCAGACTTCA	CACTTACTGGTGCATGTGTCGTTG
chr2	GCAGAAGTTCTTCGAGCATAACG	GAGGATGAACATTTCTCTCGCAA
chr2	TCATCTCTCTCTCTCCAACCTGATGTCT	TGACAGACGAGGTTGGCAACT
chr2	TCCTTCTAGATGAAGGACCTGAAGATT	GCACGGGTATGGAATCTATACATGG
chr2	GAGTGTGGTCAAACCTTGAATTGA	AAAAAACAGGTACTAGTAGTATGTCATGTCTT
chr2	CCTTCTCGTCTCTTCTCTCTTC	GGGTGGACGAATCTGGAATGTC
chr2	GTGTAAATGACTCACAGATGGTTTGG	CAACACGTGACACACACATACATT
chr2	CATTCAAACCGTACAATTGAAGAGG	TGACCTGTGTTTGTGCAAAATGTT

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	CCCACAAGATTCAGTACTGTGCAGA	ACTGTTCTCACCTGGCTGATATCC
chr2	GCTTACACAAAATATGAACCTCTGTGGTGA	TTGGCTAATATTGCACGATTTTAGTG
chr2	CACCTGGGTGAGGATCCTCTAA	GAACGATTACCTTGTTTTACAGTTTGG
chr2	CAACTACTTGTGTGGTCATTGTTTGTC	AGAAGGCATCCAGGAACTTATCAT
chr2	CATGACCATATTTAAGGGCCTTTTG	CTCTTGCACTAGAGATGAGGCTTAGAG
chr2	TTGCTAGGGTCGTTTTTCGAGAAC	TTTATTAGAAGTGTATTACGGTCCTAACAA
chr2	TGTACATGCGGGACGATGAAG	CACAATCCAATTTTGCTAGCTAAGATG
chr2	GGGAGTGAAATGCCCTGAAAA	CAAAGATTGTTAATGTTGAGTACCTGTGAT
chr2	GACCTTGCATATTTACGAAGTGATCA	GGCTACTTTCCTTGCTTTGGTCA
chr2	TTAGGCATGGGATGCAAGGAT	CTGAATCAAATTGATGTCGCTGAA
chr3	CGAAAAATATTTACCAATGAGTAGTGCAGT	CACTAGTACTGTGTTCTTCGCCTACGTT
chr3	CACTGCACTGGAGTAAGCCAAAC	CCAGATAAATTTCTTCTCCACAAAAGAC
chr3	CGAAGGAGTGGTTCGAATCTGA	CACTAGAATTGTGTCTGACAACTAACAACC
chr3	AAATTTTATGTCTAAGTGCAGAAGAGTG	CCTTGTTGCAAAATTTGTTCTCCA
chr3	TTTACATCTCTAGTCTCTTATGTTGGACACA	CCAACTTGTCATTATAGTCTTGAGTGCAT
chr3	ACGCTCTGGTCAGATTCTGGTTAGT	CCACTATAGGTAGCACTTGTGTGCTTCAG
chr3	TTCAAGACTGAGAACATTTCAACTGAA	TGGGTATGTACAGATTCAGATTCAAATTC
chr3	GACCTTAAACCTTAACTCCACTGTCTTCA	TCTGAAATATCGATGCTTTTACCA
chr3	TTGTATGACATAGCGCATTCCTCTA	AACCCAGATCGGTCATATGAATAG
chr3	CGGATCGGCAGTCGTGTCTAT	GGCCGTGATCTCCTCACACTCT
chr3	TGCTAGATTCGATGAACTACTCTGGT	TGGTCAATATCGTTGCCACGTT
chr3	ATGAGCCAATCCTTTGATTACCC	GCGAAACTTCCTCCATACTCCATA
chr3	ACTTAACTTAGTGGGTGTTGATCGA	TAACAACATGTGGAGTGTTTTCTGC
chr3	CTATTTACTAAGAGAAGATGCCTCTACAATCTGT	AATGCTTTTCCCTTTACAATGAAGTACC
chr3	CTATTTTGGTGAGCAGCGACAA	CTACCATGTTTTGTTTGGGAATTTTT
chr3	TTTTTTACGGAGGGTGACTCTTTAAGA	CGGTATTATCACCAACTCATTACCTACC
chr3	GCATGCAATGTAGGATATAATGACCA	CGAGCTTTTAAATATCTCGTTGCAA
chr3	GACAGTTGGGACCATGTATTAATAGTGTAC	TTGTTTTTAAAAGAACCGGCACATAT
chr3	TTTGATCATGTGGTGACAAATTAA	CTTTGTGCTACATGAAAGAGGATAATACAC
chr3	GAATGAAGACGTGTGGTGTCTAGGA	CACAAGTGCATTACCCATAGAAATTTATT
chr3	AGGACCGGCTCAACATGGA	CATGGAGTCCACATGTAAGGGAGA
chr3	GTATTCTTGGAGAGCAGCACCATT	ACACTCGTCATATATTGCAGAATTCTACA
chr3	GCAAGCCTGCAACCTGTAAACAG	TTTCCAACCTCTACATGCTCTTCCATA
chr3	GTACGGATCTGCAGCTGTTGTTT	AAAACGAGGTGTGTTTAGTTCCAAAG

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	CGGAAGAAAACGCCAGTAAAAATA	TTGTGCGAACTTTGCATCACTC
chr3	CGTATACTCAATTGCGTTGAGCTATG	CGGATGGTAGGGATTAGCAAATCC
chr3	GGATTAGGTAACCCAAGACAGGGTAGT	TGTTACATGGCAAACAGCATC
chr3	GGATCATGTGAACTCTGGGAGGTATC	CAAGTCAAGTTTCAGAATTGTGTATGTAGCT
chr3	AAAGTCTTACGTTGTAAAACGGATGAA	TCAAATTTGACGGTAGAGCTAACACA
chr3	TCATAGCTAGGTGTCCTATTTGATTGGT	CTTGATTTTGCAGAGGAATTTGAAAT
chr3	CATTGACGCCATCCCATCAT	GAAGGGTCAATTTGTCAAAATATATGG
chr3	GGGTCAACCAGAGTTGTTGGTCA	CTTTGGTACGTATTCGTTCCGTATTT
chr3	GGTGAGGTGAGATCGAGGAAGA	GGAGTTGAAGGCATTTTTAAAGTCCTAA
chr3	AAACAACAGAAAGAACCAAGTCTGTCA	GCTATAGAACCATCCTTTACTCCTCTTTTGT
chr3	TGAGTAGATCTAATGGGCGAGTGTT	GGATTGTTATATGGCATTCGAATGA
chr3	TGGGATAGAGGAATCACCGAACT	TGTGCATACGCACATTGTTGTC
chr3	GTGAATCTAAACACCAACTAGCAAA	TTATATAGCCACCTGTAGCATGACC
chr3	GCGGTTTTTGAAACCTGACTA	GGTGCAATAATTGAGGCTTCAACT
chr3	CACGTCAGCCAAAACCATTTCT	CTCTCTCGACGGATTTTTTGCA
chr3	GACTTCATCATCAGTGAGACCATCA	TCATCAACCCAAATTGTGCAAAT
chr3	AGCTATCCCATTCTTTTCAAAATGC	CAAAGCGGCAAAAATATACCGA
chr3	TGCCGAATCCTGAACCTAACC	GGACACTATGGTACATCTGTGTCAAAAA
chr3	AGTCTTCCGCGACTCAGATCATA	GGTTGCTGGTGAAGTGCTGATTA
chr3	ACGGTTCCAACATTATTTGGTAATACA	TCTAATACTCCCGTCATCCCAAAATA
chr3	AAACAGTTGCAACGTCACCAAAC	TGTTTTTGCCTTGCGTGCTAAG
chr4	GCCAGTAACTTTTGTGACATCCATGTA	AATGTTAAGGCGTGACACCTGAA
chr4	CGCCAGCCGCTGCTATATTT	GCCGCTCAGTTTGACTTTACAGA
chr4	CCGGTTACCCGATGATGAACAT	GGAGAAGCACTGGCTCTTGATG
chr4	GTGGCCACCTAACCTGTTTTTA	TGGAGAGAGAAAGGAGTCACAAATAAGTTAA
chr4	GGAATTTATAAAATCTCCCTGAAGCATG	AACTTTCATAGAGAAGGCTGGTTTTATGTT
chr4	CGGCGAATGAGGATGGTGAT	GCAACCGCAACGTACAACCTCT
chr4	CCCTTTCTCGTTGCTTCCAGTT	GCTCTAACATCAACCTGTCAACTG
chr4	CATGCGTCACCATCACCGTT	AATATATATAGTGTTTTTCAATATTGGCACCTAGTATAT
chr4	TGGCGCATCACAGATGATAT	CAAAATGCTTATCCAGTGTCAATTTCTG
chr4	CCTGAGCTTGCATACTCCCAAT	GCTCTGTCACTGTGTGTGACGAT
chr4	GGCCTTAGAGGAAGAGATATCGCT	GATGGTCCCATCCCATCCATA
chr4	CCGGATACACACGAGACGACTACT	GCCAAGATAACTGTGCACGACAT
chr4	CACGCTCGCATCATTTTAAAAAG	CAAGGTAGCTTTTCTCTCAGTCCGTT

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	TGGCAGAGGAAGACTGGCAA	GCATGCACCAGCCAATCAG
chr4	GCAGATGCATGCATCTTTACTCC	CCAAATTTTGGCCTATATGGAAATG
chr4	TGAAAACCAAGGGCTAGGGCTAA	GATCTGGATGAATTTTGAACAAGGTT
chr4	CATCGTTGTCAAAAACCAAGACGA	GATCTTCTCGGGATTTGCCTCTATC
chr4	CTAAACAAGGGCTTTATTAGTTGAAATTAAAA	TGTCTACGTTTATCAACTCTGAGCTTCAT
chr4	CGAAACACGAGGCGTGAGAGTAT	GTGTTTCATGGCCTCATTGAA
chr4	GCGCTGTCCAAGAGCTTCTC	TTTATGAAGCAATCGATTGCCA
chr4	TGTAGCAACTTCTATTGTGTTTTTCAGG	CGAAGTGTTTTTGAGAGGCTAAGTTT
chr4	TTTCGCTTTTACTTAGGCCTTGTTT	AGCCTAAGGTTTCGAACATTCTAGA
chr4	CCCTCTGTTGCCAAAAAGATCAG	TCACCTTTCTGTAGAGATGCCAT
chr4	GTGGTTAAGGTCTCTGGCGAAA	CCACTTCGGCAGCAGATAACATT
chr4	GGAATCCATTCATCAATCATGCAG	CTCCACAATGATAGTCTGATCTCTGATG
chr4	GGAAATACATATCCGTGTTTGAGTCAGA	TGAGAGAGAGAGAGATAACAATTGGTGTAA
chr4	AGAAGGTGCTTCAAGTGCATGAC	CCAAGATTACCAGTCAAATATCATCCTG
chr4	GCACCTGATATGTAAAGTTATTTTCTTGAGAC	GCATTGTCTAGAGACATTAGATTGTACCACA
chr4	CAAGACCAGCGTGTTCTTTTTT	TGTCCTTACAATCATATCACTTTTGGGT
chr4	GCAGTACATGCCGAGCTTACCAT	TCTGATTCTGGCGATAGGAATAC
chr4	ACATAAGCAAAGCTTGGCATCACT	CATCTATAGTCATTGTTGCTTGCTGTT
chr4	CACACACCCGGTCTCCAATT	CACGTCCACGTACGTTGTTGAG
chr4	CACCTCTACCATGAATCATCCTCTGT	GATATGTCACCACAAGTAACAAGTAATGAGC
chr5	TCCAAGTTTAGCAAACCTTCTGACA	CATTCAGTACGACCATGCTAATTATGATT
chr5	GCAGCAGCATCAGCATACTCAG	TTTACAGGTCCTCACCAAATCC
chr5	CGCTCTGTTTCCGGAACAATT	GGCAAATATGCCGAATTATTGG
chr5	GCCCAGAAAGAGAAACGTGTGT	CCACATCTACATTGACTGTTAAACCA
chr5	AGTCGACGGAGAGGTGCGA	AAATTATTCCGCCAAAAATCCG
chr5	GGGCTGTCTGCAATCTAAAGAGG	GGGCCTATTAGTTTATTAGAGAGCCACAT
chr5	TGGTTGTTGTTGTAGCAAAGAGGA	TCCTAGATAAGCAGCGAAGGAAATT
chr5	AGAAAACTTCGGTAATAGCCACCTTT	CCAATGCTCACTGAGACTGACTATTTG
chr5	TTTCAAGAACTTCCCTGACGCTAT	TGCTGATGATAAAGGAGAAGATTTCAA
chr5	TGAACACGGAAATACAAAACTGCAC	AACAAAAGCACCTAGCTTTATCCTATCC
chr5	TGCAACCTCATTTCTACTTCTTTTCATG	CGAAGAGTGATGTCTATAGTTTTGGAGTTA
chr5	CCATTTTCTAGGTAGAAGATGTTACATGC	AGGCCTCCAATAGAGTTTTCCCTA
chr5	GGGTCTTCTTTACCTTCCCAGTT	GTAATGTTCCGGTCATTCTCTTGTC
chr5	AGCTAGAGCTGTGCCAAACAGACT	GTCTCGGTTGGTGTGGTTAGACT

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	GGTTGAGGACATTGCACAAATCTTA	TATTGCCCAAGTCACATTCAAACCTC
chr5	CCCGTATCGATCGACGTCATAG	CTTGCAATTGTCTGCTCTTTGTCTAGT
chr5	TGAAAACCCGCTTAATTTTGTCA	GGGCTCTAACTGGTGTGAATTACTACTAGTAC
chr5	GGATTGCAAACCAGCCCAAA	AGGCACTTAAGATTTGTCCCAAAATA
chr5	TGCTATATGCTTAACACCAACAACC	GAAGAAACGTGCATTATTACATCGC
chr5	CATTTGCAATGATGCAAATAAAACA	CTCGACAATATCAAAGGTACCGAGAT
chr5	TGAGCATCTGATTTTTCGCAGAA	CGCATATGGTCAAATAGCATTGC
chr5	ACACATTGGACTAGGGACAAAGTAA	AATTGAGCCTTCGGTAAACTTGAG
chr5	CCCCTCTATTTTGTAGGTGAACTAAGAGT	GGTGATGGATCCACACCCTTAC
chr5	ATGAGAGAACTACATACGCAGGATGA	TTGTGACTGACGAGGATGATATGG
chr5	AATTGACAGCTGGGCCTTATTACA	CATTTGTGTTGATTTGACATTGTATAGCT
chr5	CCATTCCTTTTCATTATTAGCAACCA	CAGTGTGGCTTATTACTTATTAGCTACCAA
chr5	GACGGCGAGAGAGAGATACAATG	GAGCCCAACCTTGAAATCTTAACAA
chr5	GACGGAGGGTGTAGTTTTTCGATC	GCTAGGTAGCCAGATCAGTTTCGTTTC
chr5	GAAACCTGTGGAACAAAGCAACA	GCTGGTTGAACCTGTGAGAATCC
chr5	CTTAAGAGAAGCCATCCCCATCAC	TTCACGCAACCCAAATACCAAATTA
chr5	CAGATGATATATTCCCTTTGACAATGG	TGAATGATCCAATGGCTCTAATTAGCT
chr5	CCATGTCCTCCAACCAAAACAA	AACTATGTGCAAAATGTTGTAAATGCAA
chr6	AAATTCTAGATACGCCACTAGGAGATCA	ACCTGCCATGGAAGCTCGT
chr6	CAAATCTAAGTCATACCAATAGCAAGCA	AAAAAGCTCTTTCCAGGCGATT
chr6	CCGATGAAGCGGAAGAACTG	AAACCGACATTTTCAGACAAATGGTA
chr6	GAGGTCATCGAAGCTGTACGTC	TTATCTTGATGTGATTTTCGGTTCGTG
chr6	CGCTGAATCTTCTTCCAGGCTT	TGAAATACAGGGTAGGGCAGATTATT
chr6	CAAAAGCTTCTCTCCTCTCTTTTTCTCT	CGTTACTGTGAGTGAGTCAACCGTTT
chr6	AAGAGCCAAGATCACACATAACC	TCAAAATTCCCAAACCTCATTTTCAG
chr6	GGATGACCTGCATATGCCACAT	GCATGCGCAAGCATATAAACTTC
chr6	TTGGGATTCACACGAGTGGAT	TTTTAAACCACGGTATACCTTATGTGC
chr6	AGTTGTCTGCACATTTCTTCCCA	TGATTGTAACAACCAGATTAGATGGAGTA
chr6	TCAAGTTAAATGAGAAGCGGGAAA	TGTGAGCATTGAGAATAGTTGAAGTTTG
chr6	TTTTACTCTGCTATGTATGGCTCCA	CCATCAAATCGACTTTACTCGTGAG
chr6	TCGTCAGCGCTAGAGGGTTTT	TGTGAGGGACCTTCCCTAATGC
chr6	TTTCATTGTGTCCCTTCTCCAGA	CATCCTATATGTCAAAAACCACGGTAAA
chr6	TGAGAAAGAGGAAAGGGAGAGGATA	ACAATTGCTTCTTTGACCATGTTCT
chr6	GTTGTTTCAAACTGACCCACTTACA	CCTTGTGATCGGTGACAATGTAGC

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	CGACGTGCAATTAGGAAGCTTCAT	TCTATGCATAGGAGTGACTGAATCAGAG
chr6	TGTTGCATGCATGTTTAAATTTCTCC	GGTCCATCTACCAAAGAACATATTTTCAT
chr6	CGTCTTTTCGGCCTTTTCTCACTT	GGGAGGGCAAAAATTACATTTAGC
chr6	CGGCAAAACAAATGCAACTG	GAAAACCTATGCTATGTGAGCTCAGATT
chr6	GATGGAGGTAGTAGCAAATGCAAAG	CCCGTTAGACCTAATGGAAGTAATCG
chr6	TGCCACCTCTCCCTCTTGATACA	TGGGCAACTGTACTCAATTTATTTTAC
chr6	CGTAACTTGTAGCAAATGCTCCA	TGCATTTTCCACGCTGGATTT
chr6	GATTTGGAGCAAACGAAAAGAGGA	CCATTTAGCAGCGTCTTAAACCTTC
chr6	TGTGTAACTTTTATAGTGTGCCTGCAAT	CCGACAGTTGGGTAAAATAGACTTATTTT
chr6	TGTATGTGTACTGTATAGCTAGCTGATCGA	CATTATGTTGGATGACAGCGTCAAT
chr6	GCATTCTAGCACAATAACTTTGGCA	TTCTACATCCAGTTTAGTTGACCTTCAG
chr6	CATTTCCAGCAGAAGGGCAAGTA	TGATGGTTTGGTTAATCTTAGCCATT
chr6	CTCAATGGGAGGAGCGTAGAAA	TGATGTTATATTTAGACGAGCTTCTCGAA
chr6	TTGCCTCTTTCTCGTTAGTAAATGGT	TTATTTTAGAAGCCATAGCCACCAATA
chr6	ACTACTACTCAACAACCAATGAACCAAA	GAGAGTAGTACTACGGCAGTGTTTAGTTCC
chr6	GAGGATACAATTCAGGAAGCACAAG	TTGGTCTTGGTGTCAAAGTAAAAGA
chr6	TGGCTACTTTAGTTTCCTATCTGTCTGA	CTAGCGGTTTGCACATAATGACC
chr6	TTCTGAGAAGGGTATAACTCAGAAAGTACAC	TCGATCTCTGGGATCGCAA
chr6	CGGTTTTCGACGATATGGATA	CATTGATAAACCAAAAGAAAACCGA
chr6	TGTCCACCAGCTACGTAGCTAAGTATC	TGAAGCACGTCATGGAGAAAAATATAT
chr6	GGATGCTCCAGAGCTGAAGGTAC	CAACATCCCGGTTTCCTTGAAC
chr6	CAAGTCACCTTTCTCCATTGCA	CATTCTCCTTGGTGTTAAGTTAGTCAGTAA
chr6	CCTGGGAAGGAAGATGCAAGTG	GAAATCCTACAGCACCACACAGAAA
chr6	TCGGCTTACATCTGGTCAGCTAGT	TCAACAAGGAGAACACATAACAAGAAA
chr6	CAGCTCCCGGACTTATTTTAAATAATTCT	TGTTATTCTTTGCTTGGGAAGACAATTGTA
chr6	GTTGCACTGATGATCCCAGCTA	GGATTTCCCAGTTTCCAAGTGA
chr6	GGGCTACTTCCTCTCTAAATGCG	AAAGTGATTGAGACGAGGGAGTTTTT
chr6	ATCAATGCAGCTCCTAATAAGACCT	AGATCCTAACACAATGAGGGGAAAA
chr6	AATTAACATCAGTGGTGTATGTTTGCTC	GCAACGAATACTGATATGATATGGCTAC
chr7	GGTTTTGTTTTGCAACCATCCA	GCTAACGGTGGCAAATTTGTTTTG
chr7	GACCATGTAATGGCTGCAACAA	TCATGCATCATCATCTTGCTAACAA
chr7	TGTCTAAGACCGACTTGCATGCT	GCCATTAAGCAATTACCACCATTG
chr7	AAAAGGAGATGTGCCATATAAGTATGTCCT	AGCTACTGGCCAATTTTGTTCAC
chr7	TGTCATTGCTTTTTTGTGCACCTA	CGTCCCATTTAATGATACAGGTACATTG

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr7	TTTGGAATGGAACCTGCAGTAAGAC	TAAAATCAGCCACAAAAGGGTTCTG
chr7	TCGCTTCTCTCCTAGAACAACTACTTTG	GGTAAACCCTGGTACTATCTCCGTTCT
chr7	TTATTCCATCCTCCTAGTACTATGTCTGTAGA	GAAAGTTGAGGAAAGAGCTCAGTCTTAA
chr7	GGCAGTCGGGCTATCTATGAGCT	GGAGAAGGAGAAAAGGAAATTGACAT
chr7	CCAGCAGCCCAAGAACTTGT	CCCACGTTTTGCTGACTCTTTC
chr7	GCTGTGTGCACATGTGTAGTACCA	CCTCATGTGCCATGCACCATAT
chr7	CAAAATCTCTACCGTGACAAACCCA	ACCAGAGTTTCACTTTTGCAATGTT
chr7	TGCCAACCTTTTCGCCATTT	CGCTTTCCGATTATTTGTTGTTTCC
chr7	TCACTTCACATAGCACATTGCACATA	GTGGCTTCATTGATGAAGCTACCT
chr7	TTAGAGTTCAGTCTCACATTGGTGGT	AGGCACCACAAGCACTAGAACTATATTT
chr7	GCTCAAACAACACCAGAGCTAAGTTT	GCCAAAGCGGCAGTCATGG
chr7	GGTTGGTCATAAGACTGTCACGGTA	GGGTATATTCAGTGGAAATGATAGCATG
chr7	CATGTTCCCGACTGCAAAGTTC	GCTCACAGTTACAATGATCTGCAAT
chr7	TGATTAGCTTATAGTTGCTTTTGTTCAGC	CACAGTCGTGGGAATATACGAACATT
chr7	GGACAGCTGCTGCTATGAGAAAGA	CGTTGGATCGAGGATTTGTCTG
chr7	GGCGAAAATAAATCTTTTGGCTGT	CCTTCAACTGAATGATTGGCAAATAG
chr7	TCACTTACCCAGAATCCAGCAGA	GGCAAACCTATTAGATTTCATCAGGTTG
chr7	CACTAAAAATGGAGGTAGTATCTCTGACCT	CGTACTAGCTTGGTTTTTACGGAATAAA
chr7	CAGCTCAGAGCTATAAACTGTAGTACAGTACG	TGCCATTGTATTCTCTAGTATTCTATGT
chr7	CACTGGGATTGTGGACTATAAAGTTACCT	TTTAGTAGGAGGGACCTGCCAAA
chr7	CAGCCACAAGACTTAGTAGATGCAGA	CAGTGACCGACGAGGTGCTCTA
chr7	AGTATAAAGCCACATCATCGCCTT	AATACACAGACCCAAAGAACTAGACATC
chr7	CCTCCCGACCAAGAAGAACCTAA	TGCTCAATAGGAACATGGTCCAT
chr7	GGACCCGAAGTAGCATGTCTCTCT	TGGTGGCTTCAGGAATTTTAGTTG
chr7	GGGAAAAGTTAGCAAGAGCTCTAACCT	GACAGCATTCAGATGGAGTGGAA
chr7	TGGAAGTGAAGAGGCTTCTGGAT	GATGAGCCTGTACTAACGTCAGAAAAATAG
chr7	TCTCTAAAGAACTCTGATGTTAAGCGTGT	TTTACGTTCCAAAAATCACATCA
chr7	GGGAGTCGAACCCAAATATCAGG	CGCACCTCTGCTTCACTTCATTA
chr7	TTAAGTTCCCTCGATGGTTTTTACCT	ACCTCCTTTCCGTTTTTCATGC
chr7	CATCCTCGGTTTTCTTCGGTAAG	GAGATTCTTCCATACAACAATAGGCATC
chr7	CTCGTTGTGTTTTCTGTAGAAAACCA	AATTGGAAGCAATTCAACATGCATG
chr7	CGAAGATGAAGGTCCAAAAGACCT	TTGTAGGCGAAATACTTACGTAGATATGC
chr7	TAAATACACAACATGCATGGAGAGC	GTTTGGTTTTCGCCCTAAAGTTTCTA
chr7	CGGTGATGGACCATCATCCAAC	GGTTTATCAGCCGTTGCTCAAA

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr7	CCTAAAACCCACGTGTCAGCTCTA	CCAAACCCAAAAATAATTTAAATCACA
chr8	AATAACTAGGTCATATAAGGCTTGTGTGGTT	CCAAGCTGATGATGTCCTTATCAATACT
chr8	ATCCATGATTGCCAATCTGTTTTGT	TCACTTCAGCTCAGATCTCTTTTCA
chr8	CTTGTAACCTTCACTGAGATCTGCTCA	CATTGCGCATGCTTCCTTTAG
chr8	TCCGTTTGCTGAGGTCAACTCTA	TGTGATGTCTGATTTCTGAAATCAAT
chr8	CCCACTAAAATGGAGTTTGGTGTG	GAGGATACGTTTGTATGCAGGA
chr8	GGCATCTCTTAAAAACCGATCTTATCAA	TGCGATAATTTTTCAGATCCACAATT
chr8	TGGGCAAGGGAAGGAATGTA	GGAAGTGCTAGTTCTGGGCTATGACT
chr8	ATGTGTTCTTGGATTTGGATGATGG	AATTTTATTTCCGGTGCTGTTTCTG
chr8	CACCTGAAAACCTCAGCTGTTT	CAGAGTTGAAACTCTGACGTGATTAGTTA
chr8	GGAAAGACCGTACAAATTCAAGACAAG	GCAGAAAAACCTAGCTTGCTCAT
chr8	AAGTGCTGGTGTAATTAGCTAATTAACCA	GCGTTTCCCGTCCTGTTTGT
chr8	AAGATGTTTCAGGGTTGTGACAAAGT	GGAATAAAGAAAAGGAAAAGGATGAGAA
chr8	TCGCGACCTTCAAATGCAA	TGTCTCTGGCCAAACATACAGAGAG
chr8	GAAAACCCCGGCATTGATAAACTAA	TTGAGGACACTATGGTTGAAGGG
chr8	CCTCGAATCCAAGCCTAGTGATTAGT	CAACTGCCAATGTACTGCTAAGGA
chr8	GCTCAAGTTTGATGATCTTCATTTGCT	CCACAGGGAAGAGAATAATCCACAG
chr8	CGCACCCTGTAGCATAGAAAT	CGATGCTCTCGAGGGATTAATG
chr8	GAGGCGCAGAGGTACCAACTC	CCTTCTCTACAGTAACCTCTCTGATTTC
chr8	TGATCATCCATGCATGCATTC	CTGAGTCAAAAGCTTAAACCTTAGTGGT
chr8	CCCCATTCCCTCTCTCTTTCTCTC	AGAGATTACAAAGCATGCACATCT
chr8	GCGAGGCCAAAACCTGGAATAGA	CTCGTCTCGGTGTGAGTTTGAA
chr8	GGTGAATAGAGAAACCCAAAAATTCC	GCAAGACTTTTGAGGTGTTCTTAAATC
chr8	TCTTCTCTGCTAAGCTTGCTAGCTTC	GCCACAGATTTATCCAGTCACATG
chr8	GCGATGATGCGATGAGAATGA	AGCCCATGACTGGTGATGATAAG
chr8	 TGTGCTATCATCTGTGTTGCCAT	AATTCGTGAGCTTTATTTTCAATCTCC
chr8	CCTCAGCTGGAAGGCAACTAGAT	GCACTAGAATGCACTTCAAGTAAGCAAC
chr8	CATAGATAGTGTAGTGCCATGACCA	CCCTAATGGTGTAACCATATTGCTTC
chr8	CCAGATACAGAACTGCGAATGATTG	CAGAAAACATGCATTATGTTTGTAGCTAGA
chr8	TGAAATGCCCTCATTTACAGCA	CAATTTGGTCTTGGGTTCTAAATTCAG
chr8	TCTACAAAGACATTTGAAAAACACGTG	CCCGTGTGTGCGTTTCAATTTATA
chr8	CTTCTAGAAGCTTTTGCTTCTCTGGA	CGTTTGGCTTGGAGCCATTTATATATA
chr8	CCGTTTGATTTTGTGAGACCACT	GGCCATCACAATTAATTTTCTGAAGTT
chr8	GTGACCTACAAGGCTACAAGGAATAACT	CAACCATGGATGCTAATGGGAT

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	AACACAACGAAAGCTTTTGACGA	CTCCATCTTGATAGGCTGATAGTATCAAT
chr8	TTATTTGCTATGCTAAGGTCATGTTTGT	CTTGAAACATCTTGTGACAAATCCAC
chr8	TTGTCGACAAATTCAGTCCCAAGT	GCTGATGTGATTGTCTGATGAATCC
chr8	CTGTATAAATCCTTGTGTCCGCATC	GCAAACCTTTGGGTGCTTATTTGTTTT
chr8	CCAAGTCATGCATAGAAATCACATGA	TGAGTTCAGATTACAGCCTATACTGCA
chr8	AGCCATATTTCTAGCTCTTCCCTTAT	ACACATGGAAAAATGTTCACTCGAA
chr8	TGTGTACAAAAGAGAGAAAGTACAACCTCA	TTTCCTTGTCTTCCCTTATTCACACG
chr9	GCATCATTTTTTGGGATTTGGGT	CAGTGATGACCTTCTCAGTGTCATTT
chr9	CATACAAGAACTTCAGCCTGACCAA	GCACACAATAGGTTTCCCTAAGTATCGAC
chr9	TGATACCTCGGCTAAAAACTGATCAA	ACCAGTTCCTACGTATGTTCCCTCCT
chr9	TTTCTTGTTGCAGTCGACTGATACA	CCAGAAAAACAAAACTTGGACAATTC
chr9	CATGTGTCATAGCAGTAAATTTGCAAG	CCAAACAGTTTTTGCAGAAATAGCAA
chr9	CACGTATCAAATATCCAAAGAAGTCATG	GGTGAAAATCAATTTGGTCGATTTTG
chr9	TCAATAAAATCAGCTGGGAGGATCA	CTCCTCTACTTCCGATGGGTAGATC
chr9	TGGCAGAACAACGGACATTGT	TCCTTCGATTCTCTCTTTCCA
chr9	AACGGGACTCAAAACGAATTTCT	CAGGTAGGGCCATGAGTACTGATTT
chr9	TTTGAGCTAACATGGCAGCTTCT	AAAACCACGACCTCCACCAFTA
chr9	GACAAGAGGGTCTACTACCTCAACCAT	CGCGACGGTGATGCGGAAT
chr9	GAAAGGCTACTGTACCAAACGTATGC	TGTGTGTAGGATTACCCATTTTCATAGG
chr9	GTGACTACAACCTCAAATAGTCACACTATGGT	TGAGGAAACTGGAAAGGCGTTA
chr9	CCCACACTCAGAGCATGGATTG	GGAAACCACTATTAGTGTTGGTTTTTGG
chr9	TTGTTTTGCTCAAGCCAAGATCA	GCTGCTGCTAACTAAGCAAAGCCTT
chr9	CCCCACGTATATACCCTACCATCCT	CTTCTCGTCCATACCTCACTAAAAAGC
chr9	AATGGATTGTTTCTCGTCTCGTAT	TTGAGGTTTGGTAGTTGTGGAATCTAA
chr9	CCTGCAAAAAGAGAGTCCATCTGGT	TCAAGTTGTATTGGCCAAGAGATACA
chr9	TTTGCTCTCGTAACTGTCTCTGCTT	GGCTATTTGGCCTTGACAAGGTT
chr9	TTTTCTGAACCAATTCATTATGCA	AAGCATTTGGACCTGTTACAATTGAA
chr9	CATTTGAGTGTTTGAAGGCTTAGGA	TCACATATGCATTTATCTCTTTTCCCT
chr9	AGTTGAAAGGAAAAATCAGCTCTTACCT	TCAAAACATGCCTGCTCCTATGA
chr9	CGACAGGTAACAGAGTCGCAAAAC	CATGTTACATGTGCGCTTTAGCCT
chr9	CATAGCATGCTAGTGCTTCTTTGTCTC	CCTTGGAGTTCAGGTCGATGAAG
chr9	GCCATAACCACGTTGGCAGACTA	ATGGGCTATGGAGAAGCTTTTGT
chr9	CGCCTTCTGGAGCAATATGAG	TGTGGCAAGTTCTTGATCTTTCC
chr9	ACATGGAGAACGCATGTAGCAA	CGAAGCGTCGCTTCTCTAAAT

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	TGGAGAGATGGTTGTATATTATGCACC	CCTCTAGTGTGACCAGGGAACAAC
chr9	GACAGGGCTGGAGTGACTTCATA	TCAAGTACTACAAGGGCACTCACAGT
chr9	GAACCGAACGAGCCCTTAACA	CAAAAGGCTAAAACCCCTTTCTTCAA
chr9	TCCACTAAAGAACCGTACCAATTTTA	CAGATAAAACATGGAGGCTGCCTAT
chr9	TTGTTATCTATATGGTTTGCATTGCCT	TTACTACTAGGTGTCTTGGGTCATGGT
chr9	CCTGTGAGGTCGCAGAGGTACTCTA	CGGCTTCCATGTCGTAGATTTAA
chr9	TCGTGCACTTCATGGCCAC	CTGTAGGTCTTGACCGCATATACG
chr9	TGGAATATAGGTTTGTGTCCCTCTAGA	CCATAGTTAATGCTTGGATAAGCACAAAT
chr1	CTAGTGTTATCAAAGATATACTGCTGC	AGACTCGGCTACAGTAGGAATATTG
chr1	GCATAAGGGAAGCCTTCATCTTTAC	AAATCAGCATAGAAAACCTGGCCAAA
chr1	CCGTTCCTAGGCAGATCTTTTATCT	TTCTGGTGTGTTGGTGTGTGTTTTTA
chr1	AGAAATTCAGGAAGATGGCATTG	CTACGGTAGTTGCAATGTCCTAAAA
chr1	GTCTTATAACCTGAAACGGAGGGAA	GAATTATGACGACTCTCTCCAAGGA
chr1	GAGGGAGAGGGAGAAGAGAAAAAG	ATAGCGAGATTGGAGAGGGAAC
chr1	TCTACTCAGGACTTTTACCATTGT	ATACCATCGGACGTCCTATTTGTAG
chr1	GCATCCATACATCAAGAAACCGAAT	AAAAAGACCAGTCAAATGATGCCAA
chr1	CCATATGGCCATCTATAGTCACTTTG	TCCCATCAAGAAAGGTACAATCAT
chr1	TGTTTTCCATTAATTAGTAGCCCTCCA	TCATTTAGATTTTCGTTAGCAGCCC
chr1	ACTCCAGTAAAAGCATCAAAACCTG	TGACCATGACAGAGGTGAATAAGAG
chr1	AAAAACTCCAATCTTGTCAAAGCGA	TGTTCTCCTGGTCTTTACTAACCTG
chr1	TATATATTGGGCTTTGCTCGGTGAT	GGCCTATCTGTTGATCCTACGATAG
chr1	TGTTAAAATGAAGGGACAATGGACG	TCCCAAAATACGTAAAATAAGCGAAA
chr1	GTCAGGTGCACCATCCTCAC	TGGAAGAACCTGCGAACGTC
chr1	TCTCCACTGTAAGGTGTTCAATGTA	TGTTTTTCCTGTACGTTCTGACAAG
chr1	GCAGATTTACAATACAGATGGGGTG	CCTCTAACTATTGAAAGTGGTCCCT
chr1	TGCTTCTTCATTTGTTCAATCTTGT	CAAACATAAGACAGATGAGCGCTAG
chr1	AACCCGTCAACATTTAACTTCATCC	ACTAAGTTCTAACTGGTAAGCACGA
chr1	CGACGCTCGGGTTAAAAATATGTA	TCCACATCCAGAAGTAAATCGTCTT
chr1	TGTTGGCCTACATCATGATGCTATA	CATGTCGAACTTGAACCCCAATG
chr1	TTCAATTAACACGCGCATTACACTTA	TCGTTTCGTAACCTAGCTAGGCAATA
chr10	GAGTGGGTATGGATGTGCAAGG	CGAGGTTGAGGTTGAGGTTGAG
chr10	GTATGGGGGTGGTGGTGTATG	AGCTTCAATCAAGGTAACCAACAC
chr10	ATATACACACACACATATGCCCT	CTACGTAACCCATTCTCAACTGGTA
chr10	AATGGAAATCTGTTTGTGCGGAAT	TAGAAGTCAGTTGATATAGCCGCAA

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr10	AACCCATATTGGCTATGTTTTGGTG	CTGGCGGGATCAGATATTGGATG
chr10	AGAGATCTTGGAATCTCGAAACCT	ACGCAAATAGACCCAGAATTTTGTT
chr10	CTGGCTGCCAGCTTATTATATATGC	TCTCATAGTCACATGCATGTACTGT
chr10	CAGGGGATTGATTTGCACATTTTGTG	TTCTAGTCACTATCGTATTGCCTC
chr10	GGGTAGTTACAGTTGGGCCTAAT	GCTCGATGTAAAACCAATGGTGAAT
chr10	TAACTATAGCCAGACCTTGCCTTTT	TAGAGCTCACTCAAATCGATCTCTC
chr10	GCTATGTGTTATCAACCGCTTGTTA	GCCTTTTCAATTGAATATGACGGGA
chr11	AATACAGTGCGGGAAAAAGACAAG	ATCTAGCTGGAATAAATATCCCGGC
chr11	TCCTCCAAAACCTTAAATTCAGTGC	CAACATCTAGATTTCGTGGGTCTTAT
chr11	CTTGATGCAGAAACAAGCAAAGCT	ACTACCATGATTAGGCCTCTCTTTC
chr11	CACAACAACAATCCCCAAAGTCATA	TTTGACTGTGCCAAGATCTCATCTA
chr11	CCAATTTTCAGTTTTTAGTTCTTACCGC	GTCGAAGTCCAGCACCATCG
chr11	CCATATGTATGCAACTGGGGGTAAT	AAAGACACTTGTTGCAAGATAAGGG
chr11	CTCTCCCTACGGTTGTTTCTACATT	CTGATATCCCCAATTGACACACATG
chr11	CTGAGCTCGAGTATGTTTCATGGTG	AAAACCACTCAATACTAAGTGCGTG
chr11	AATACCAATAGTCGAGGACATCCAC	TACTCCCGAACAGGTTGATGAGAAG
chr11	TCTCGGATTGGTTTTGTTTTGAGTAC	GCAGCACAATCTTGAATAATCGGTA
chr11	TGTTGTTTTTACCCCACTTTTTAGGG	CTAGGGTTTTGGGTGTTACATCTC
chr11	AAAAGAAAAACCAACCAATCACCT	CTCCACCATCATCGATCTTCAACA
chr11	TTTAAACTCTCCATCTCCGTCCATC	ACAGGAGAAGAATTGCTAGGGTTAG
chr11	GCAGTCAAAATCAGAAAAGAGAAGT	GTGGGTGCCTAGGTATGGATATATT
chr11	CGATACTCTTTGTCTATCTCTCTCT	CTCCCTCAACTTCATGCACTAG
chr11	ACCCGTAGAAAAGATAAGAGAGACG	TTCGCCCATGTCAAGCTTATTTTT
chr11	GACATAACGCGTGATGATTTACTGT	CTGCTCGATAACCTTCATCTGAAAT
chr12	CAGTGCTATCCAAATTGACACAACT	CTCAATGCCCATTTACATTTGCTTG
chr12	TTAGAAAGCATAACAATCCGTCACG	GCTTTATGCACGGAAAAATTGACATA
chr12	CTGAAATGACCTTATTGCATTTGGC	GACAAGAGAAACGTGGGCTTAAATG
chr12	AGAGAGCTTACAAATTGATAATTTTACA	CCACTCAAAAATGATGTGGAAGACA
chr12	CCTTTTCAAGATAATGTAGGGGCTT	TTTCTACAGCATGTTTCATCGACAAG
chr12	TTGTAACAGAACGAAACATGACCTG	CAAAACTTCCTTGCAATTTTCAGCAT
chr12	ATTTGATACTGTGAGGTACCGGTAG	GAATGAAACTCAATGTGTTGTGCAG
chr2	TCCCCAAAATATAGCAACTTCTGGA	TATCAAGGTGCACAAAGTTGCTAAG
chr2	ACCACACACAATCTGATCTTTTGAG	ATAATTCAGTGTGGTGTGTTTTCCC
chr2	GAGATGTCTCATCATGGAACTCGAT	CATCAAGGTTTCCAAGACCTTAAC

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	TTCTATAGCTAAAAAGTTCTTAAAATCTGGA	ACCAGTTCATCCAGTTTATCCGTTA
chr2	TCACCACTATCATTTAACCGGACTT	AAATCCCTAATTAAAACCGCGGTAC
chr2	ACCAGATCGATGATCATGTTTAGGA	AGTGCGAGATTCAATTTGTTTGT
chr2	GGGTCTCACACTTGGAAGAAAATTT	CTCACAGGACACGACATTCAGG
chr2	GAAGAAGCGCGGCTCATTG	TCTTCTTCCTTATCTCATCTGCGAG
chr2	CCACCCTTTTATCGTTGAAGTTTCA	TCCCTTATATTCACGGATAGAGGGA
chr2	TGCCGAATTATGACCAAATTTCCAA	AACGGGATCCTAGGCAGTGTATC
chr2	GCTCGATTGAAAAAGAACTCTGGA	GATGCAAACCAGGACTATATAGGGT
chr2	GATCGGTAGACGCTGGTGAG	ATATACCCTAATCGATGGCTCATGG
chr2	CCTTGTAGATGTACTTTCCGAGGAA	CTTCGTCATCTTCATCCGCAC
chr2	AGAAGCAATCACCCATAGCTACTTT	CCTTTAGGAACACATGAATTGACCC
chr2	CTGCTCATAAACGAGTTCACGTCTT	CCCTAATCCTTGATTCCATCTTCCA
chr2	AAGAGGGCATCATTTCTTGACTCTT	AATCTTTCTAATTTAATGCGGCCGT
chr2	CCGGCTAATCATTCTGAACTTGTT	AATTTGAGTCGTTTAAATGGGTCGG
chr2	CTTCCTATATCCCTCCTCCTCTCC	ACCACAAGATAATAAATCGACCGAG
chr3	CCCAAATTTTAGAACTACGGCTTCA	ATCCTGCACTCGTGTGTGG
chr3	TTGCCATGCTAGATCTAGGAATTGA	CATTGCTACCGTTGTTCCAAATAGT
chr3	GGATCTATGATTTGTTACTGCGCAA	AAATTCGATCCTATGCTAGCTCCAT
chr3	TGATGTGTATCATACCACGGTCAG	GGGTTTATATGTGCTCAGGACCTAG
chr3	AAATTTAACACCACCACCCACATAG	CACAACCACCTTCCTTCTCC
chr3	AGAAAAGACATATTGCAACATCGCA	TTTCTCTCTTATCTCCCATGTGTG
chr3	ACAAACTTATACATCCACATCTGCT	TATCGAGCTGGACATTTCTTTTTTG
chr3	CGTAGGGCTGAAATAATGAGAGTCT	TGAACCGCTCCTTATTAAGAGTGAA
chr3	TTTTGGACCAAATTACCCATGTGTT	GGCCTCGCTACCAATACCTG
chr3	TTTTGTAGGTCGTCCGTTAAAGATC	GTTTGTTCCTTGAGATAGGCATAG
chr3	CTGCTTTTCCCTTCAAATGTACCCTT	CATACATGCATATGGGTCCTAAGGT
chr3	TTGTGCGATAAGTCAACAAAGGAAA	TAATTTTTGTTGGACATGATTCGCA
chr3	AAAATGCAACACAACTAAACACGG	GGAGGTATAGTGTGCTCATGAGTT
chr3	AGACATATTTTTCTACGTTATGTAGCT	GTCGGTTGCCCATATATCTCAAAT
chr3	AGAAATAGTTGCTATTGGGCATTGG	CGTAGTTGTTTAGTCGTCAGAATC
chr3	CGTGGCCAAATTTCCAATTGTTTAA	TACCCCATATCATTGAGGGCTAAAG
chr4	TTATTTAACATTTCGAGTTGGGCCAC	TAACACAATCTTTCTTTACGGCCAC
chr4	TGAAATTTCAACCATATTCCAACCT	GCCAATATAAAGGTTCTGTTTCAGGA
chr4	TATTTCTGAATGGCTGCAGACTATGG	TCTTTAGTCTCGATTTGTAAACCGG

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	CTGCCTCCTTTCCCTTTCC	CTACTCTTCCAAAATGCCGTTCTAC
chr4	AAATGTAGGGGGATTTAGAGGTACC	GTAGCAGCAGGGAACATACAGAT
chr4	GCCAGTGCCATCAAGTTTTTAATCA	CGATTCACCCAAAGAAGTACCAAAA
chr4	CATGTAACGGTCCGATTTTCGTTC	CGGCAGTTGGATCGGGAAC
chr4	CAAAGGAGTAGAGCTTCATGTTGG	TTACCCGTCAAGATGCCGAC
chr4	GAGTATGTCTTGTGTTCGCCAGTT	ACAAGCATGCAACTTCAGTAATAGC
chr4	TATTCAGAATGGCACCCTGAGAT	ATTTGTTATTTCTTGGCCCTCTCTGC
chr4	GTTGATGGATATATGTGACTCCGTTTC	GCATGCTAATAATTCACCTCGTGAT
chr4	ATGCTCTCATGGCATTACAGTTTC	ATGAAACACTTTCTTGATGATGGCA
chr4	GATCTTCTCGATCTCCAACTCGC	ACCGAAATAATATCGTATTGGAGGGT
chr4	CGTACAGGTACCACCACCAC	ACGGTTTAGGTTCAATCCATATCCT
chr4	GAAGCGGTACAGGTTGGTTTTTC	AGAAAATTATGGCTACACTCCCTGT
chr4	GAGAAGATCTACATGGACGCCC	TTCTATTTCTTTCGACTCTTCACCG
chr4	ATGCGAGATCTTGTTATAAAGATTTATTTCT	AAAAATCGGACTTCTGATCCAACAC
chr4	TCCCATAACACATCAGTTAAGGAGG	TTAGGTGTAGGGTCTGGGATGATTA
chr4	GATGGAGTCAGAGATATCGACGTAC	TTATCTCCCTGTCATGTCATGATCT
chr4	CTTATGGGATCTATGTCTTGCAGCT	TAATAAACTTTGGCTGTCATTCGCA
chr4	GAGAGACCTTCCTCCAAACATATCT	ACATCGCTAATGTTATAGAAGAACGA
chr4	GTAGATGTTGGTGCTCATATAACGC	AATTGGAAGGGTTGGGGTAATACAA
chr4	ACCCAACCTCTTCAAGCAGAGAATAA	CATTTTCAGGCTTCAGAGATGCTATG
chr4	CGAAACCGATGCAGTCTCATCAA	CACCAAACCAATCTGTTTAGGTGTT
chr5	AACGACCCACATATAAGGCCATAAT	ACATGGTCACTTTTAAAAATTTGTAATTTACA
chr5	GCTTTCTCCTGATTTATCTGCCAAA	TTAATTCCCTTTTCTCTCCGTTTGC
chr5	ATCTGAAATATTTTGGACGATCGGC	TATACTCATACAGACGCACACTCAC
chr5	GGGTTTGAATTGTTATATTTGTGCGC	AATATATGGGCCTGACTCGTTACAA
chr5	TCCACCCAAGAGATTAGAATCCATC	TCCAAAAATTATATACTCCCGCCCA
chr5	CACCGCCCAGATCTTGTCTC	CTTTAGATCCAGACAAGGTGGGAC
chr5	CAAACCTCGAGGAATCAAGACTTGG	CTAATTGTGAAAGAGCAGGACATGG
chr5	CTAATAGACATCGAAAAACGTGCCA	GCCTTTGAGCTAAGGTTGAAGTAAA
chr5	ACAAAAGCAGCAATGAAGACATGTA	CCACCAATTAGTACACCACAAAACCT
chr5	GAAATGGACGTACGGGAATATGC	TTGACGTTTTGTAGGCTAAAGGAAC
chr5	AAAGTGTACTAGGGGTAAAGGTGAAC	TCACTTGATATGCATGCATTTTACACA
chr5	GGTTGCCGATTAATTTTCCTAGTTT	AGGAAATATGTCGCTTTTCAAGTGA
chr5	TAGAGAATGGCGTCAACTTTTGGAT	TGATTAACACAATGCAACCTCAACA

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	TTCAAGAAGGTCATGGCATCATAGA	GAGTTTTGAGTTGGCAGAAGTTGTA
chr5	ATATGGGTTCCTTGTAATAGTGGGG	TTGAACGCATGTTTCAATTTTCAGG
chr5	ATTGAATTGCCCATACATGTGGATC	TTTTAGTGAGATTAGGGATGTGCCA
chr5	GGATCAATGGCAATGGTAAATCGAT	TGCGCATTCACCACTATAAAATCAA
chr5	TCATTAGTATCTGATAAGTGGGAAACA	ATGTCTGATGTGTAGGAATTCCTCA
chr5	GTAGAAACTACAGTGCCTTTGGTTG	AGAGGAGAAACCCATCAAGTAGAAC
chr5	AATCTTTCTTGTCACTATTTGCATAGG	CACAACCTTCGCTCATATTTCTTTT
chr5	CTACGCATAGGTAATTGATCTGGGA	GGGCCACAAGTAGGAGTATATGATT
chr6	TACCCCTCATTAATACTCCAAGCAG	AACAGAACACACCTACAGATTCAGA
chr6	AGGGCAGAACATTTCCATTTCAAAT	TTCAATTCATCCTCTCTTTTGAACCA
chr6	AGAATTTACAGTGCAAACCAAGAA	AGGATTCATGGCATAGAACTTGTG
chr6	AGCAGTGATTTGGTTTGTCTTACTG	GCAATAACCGTCTAATCGCACTAAA
chr6	CATCCTACAAATCCTAGATCTGTCAC	GTTTATAATTCGCTGCAGATCCGG
chr6	ACATGTCTTAAGCATATCGATTCCA	GCTTCAGTTAGACGAAACAATCCAA
chr6	TGTCAAGTTACGTAACACATCAACTG	TAAGGGTGGATTCTTTATGGCATCT
chr6	AGGACTAAAGATGTTTTTGGGACT	CGACATCTCGAACCTACACACG
chr6	TGGTATCCACTTGATTCAAAGTTTTGA	AGCGAAGATTAATTGTTACCTTAGTGG
chr6	TCTGCATTATTGGTTTTTGGACTTT	CCGCACAATAATCCAACCAGAATG
chr6	ATAAGTCCCAACGCTAATTACACT	AATAAACCTTTTTCACGATACCAGC
chr6	CCGTACCTTTTCTGTTGGGTTTC	GGGAGGACGAAGGAGGAGAG
chr7	TAGCTTCGACAGGGAACGCTTATC	CATCTGGCGAAGAATTTGGAGTAC
chr7	TATTTGTGATTCACATGACCACGTG	GGAAAGGGAACATAAGTAAGAGCTGA
chr7	CAAGGAGAAGGTGTTTCGTCCAG	CCATATGACGACTGTACTTCTCAGA
chr7	GGTGACAAACGTGATTTATTGCAAT	CATATCCGTATCCGTGTCATCAGTA
chr7	CGACCTTTTATCTTTTGCTTATTGAAATGA	CTGATGATCGGTCACTGGAATTAGG
chr7	ATGTGAAACTAAAAACAGCCTTTGT	CTATTAGCATGCGGCATACATGAAG
chr7	TCTCCTTCCTCTCCCATCTCATC	AAAAAGAAAAACACACGAATCGCTC
chr7	CGGCATAGGCGTTGGTGT	GATGATCTTTTGAGTTTCGCCCTAAG
chr7	AGAACATTTGCTAACCTCAACGTTT	TTTTAGGAGTTGGAGCTCTACCAAA
chr7	GAGTAGATCTTGTAAGGGAGACGC	AAGTCTTCGTTTCAAGTTGGATACC
chr7	CATGCCATGAATATCAACAAGACCA	AAGAGAAAATGACTGCTCCTTCTCT
chr8	ACTGCATCTCTACAAGCTTATCAGT	AAAGCGTTTCTTCATCAAATTTGCC
chr8	CTATTTTCATCTGCGGCTTCCCT	TTTAAAAGACCATGAGACCAGCAAC
chr8	TGCTCAAAGACAGGTCGAACATATA	GTGCTCTTTGTACAACCCATCTTAG

表 A.1 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	GCGAAATTGAAATAGCGTGGGT	CGTAAGTACGTACAATACCTCTACCA
chr8	TGAATCCCTTCATTTGTAGGAGTCA	TAGATCAAACACAAAGACAACAGGC
chr8	GGAATCGAAGCTAACAATCTGCAAA	ACCTGATAAGAAGCATGGAGAAACA
chr8	CGTAAGAAATACCAACAACCACCAA	GATCACTGCAACCACAACACTAAAT
chr8	ATTGGGTTGAGGAGAGAAGGGAATA	CCGTTTCTCTCCAGTGTGTAGG
chr8	TGGTTTTTCGTAGTAGTGGTACTTGT	GGTACGTATCCAACATAGTAAGTACA
chr8	TCAGGAACAGCTACACAAGAGTAAA	TATTCATGGATGAGCCTACATCTGG
chr8	GTTGGATATAGAGGCCGGGTAAAAA	ATTGCCGAAATGCTGGTCCATC
chr8	CACAATCACCTCTATTCACGGATTG	AGATGGAGCAATTACCTTATTGGGT
chr8	TCCCTTGACTTCAAAATTGACGATG	TCTCCAGATTTTATGGATCCCAGAC
chr8	AACTAAACAGGCCCAAAATAGAAGC	CGTCTCCACGTTTCTACTACCTTTA
chr9	TTTTGGTAGATCATGCTCCTTTCAG	CCATTGCATTGACTTCATTTTACTGT
chr9	TGAGGACCAAGTTCAAAAGAAATGA	CTCTGGTTTTAGTGTATCGCAAATCA
chr9	ACAATTAGACAGAGGGAGAGAGAGA	CCCATGATAAGCTCAATTGGTTACC
chr9	GGCCCAACTTAAAGGTGATATAAGC	TCTTCTTCTTGGTTTTCTACTGGTGG
chr9	CCGGAGAAGACATCAAACACCTATA	GGTGCCTTTTACTCATTCATAGGG
chr9	GATATGGAGTTGGTGGGACGAC	GATGGCCACAGAATAGTCCATGA
chr9	TGGTAAACACAAATTCAACACGGG	TTCTGGTTTTTGAAAGGTTGCTTCTT
chr9	TCAAGTTTGCTTTAAGGTACAGACA	GGACAACAGGGTACTCACATGAAAT
chr9	AAAACTTTTGGCAAAACATGAACCG	GTTCTGTATCAAGAATGAGACTTGT
chr9	TGATCGATCACAGATTCACAGTTGA	TCGGACATGTACTCTTCTTGTTCAT

A.2 玉米 MNP 标记引物

玉米 MNP 标记引物见表 A.2。

表 A.2 玉米 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	GTGCTAGCGTTCCTCTGTCC	CAGGTCCGAAGGTCACCATG
chr10	ACTCCGGTCGGAAGATTGC	GGACGTATGAGAAGAAGACGTTGAAG
chr1	CAGATGCAGTGCCCATCCT	CCCTTCCTTGTCATCAAGCTC
chr8	TGCCCATCTCGATCACCTTC	CCCGTCGTGTCTAGCGAGTA
chr4	AGTTGGATTTCAGGCACACTAAAAGA	CAGGGACAAGGTCAAGAACTATTATCA
chr9	CACAGCAATGCAGCTCATGT	GGTGCCATTGTCATCTGGGT

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr7	ACATCCACATCGAGGAGGACA	GCATCACCGCTCATAGGTATTGAAA
chr3	TTCTTTATTTGCGCAAACGAGAATACC	CCGTTCTCCGTTTTCTTTCTG
chr8	CCCTAAATGTGACGGACTCCAA	CCTTGTTGTTGTCGACCGACAT
chr9	TTCCGTGAATCGTAACCGCT	GCGAGGAGATCCTACAAGCTC
chr10	GTGACCACCAGTGCCGTAA	GACTGAGGAGCAAAGATTCTCAAGA
chr3	AGGTTTGTGCGGCTAATCTT	GATTAGATCCGCGTAGGTGCAT
chr10	ATGATCAAACATATGCAAAATTAAGCAGTTCA	TGATGGCATAGGCATATTCTTGTGTC
chr2	GAGTTCATATGTCGGCATATGGTACA	GCTTCTCGTCATCCAGATAGTGTG
chr7	GCTTTACATATAAAGTAACAGGGCCAGATT	CCCTACTCTAGTCATTTTCATGGCTACA
chr6	ACTGGAAGCCTGCTGTCAA	CCAATTTCGCATGGTTTCGTGTATG
chr9	CCCGCTTCAAGCATCGTTG	TTCTTATTTCCATACGAAACGAAGGG
chr2	GATCTTACTGCGAGCTGCGAT	TCGAGCGGAGATCCAATCG
chr3	GAACCATTCCTAGCATGGTGT	GTCCAAGACCTCTCGCTTCA
chr1	AAACTGAAGGTTTCATATGTTTTATTTGTTTACT	CTCATTGCTCATGTGCGCAA
chr5	AGCTGAAAGTATGGTAGAAACGAGC	TTCTGGCGAAATCTCCGGTT
chr9	GTGGTCAGCAGATGGTCTTCTC	GCCTTAGGATACATCTGTGCTGA
chr9	AACCGGCTCGCACACATA	GCCACTTCTGCTCGTATGATCTT
chr2	GAAGGCCCAAATTTGCACTAAAAAG	CAAACCTTCATACATAGATGAGTTTGACACG
chr5	CGTTTGGGAGCCTTCTTCCA	CTTGCCGGAGCAAGTCAATC
chr2	GTCTAGGATTTGAGCACTCCTCATT	TGCACCTCATGTGAGCATAGG
chr6	TATCCGCACTTCGACCCACAAC	GAACCGTTACGGCACGATCTAA
chr9	CCCACACTTGCAATACATGTCAAT	GGATGGGATCTTACCATGGAATGAC
chr4	TAGTGCAAGAACTCAACGGAAGG	GATGGAGCGATCCAACAATTTGT
chr3	GACTGAGAGAGTGAGAGACGAGT	CAGGCACGACATAGATTATTGGGT
chr10	CATCCGTTTCGATGGGAAAATGTC	CCATGTGGGACCTCCTGTTA
chr7	CCAAAATTAAGAAACAACATGCATGCAAG	TTGACAGAGGCACGGTGT
chr10	GCTTGGATTTTAATGTGTTCTGGA	GGGTAGTTCTTGTGTCATGGCC
chr2	GCGTAAATCCTTGCGTTCCAAT	GATGCCTTGAAGGAGGACTTGAA
chr4	ACGTCTACAAGGACCCAGACTT	ACACCGTCTTGATCTCCAGGTA
chr9	GCTCCTGCAAAGTTCAGTCGTA	TCATCACCCAGAGCATGTAAACAG
chr10	CAGATCTTGCTTCTCAGGTA	AACTTTAGCATACTACTGCTGCAAGT
chr6	CCATTCTTCTCTCGCTGTCAA	GCAACGACTTGTACCGAGTTGTT
chr9	GCCTCGACAACACAACTCAATT	ACCATGTAATTTTGAGTATTGAACTTGGAAGA
chr1	CGCCTTCTTCGACCGCAAT	CGAATGATACAGTGAGTCCACATCCTA

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	TCGAGGTCGAAGCTTCTTTGAG	TTAGACCCTGCCCTACCCTTATC
chr4	AACTTGAAGAACTGGAAGGAGACG	CAGTGCAGCAAGCTCATCATC
chr5	CATCGGAGACCCTCACAGAAG	CATGCTCCAAATTTCAACTGATGCA
chr7	CTGCTTTTAAATTCCTTTCAAGATCTTCTTCACT	CTAGGGTGAGGATAGAGGAAGAAAAGATA
chr8	CTGAGTTTCTCCCTTTCATGGCTA	GGACTGCTTGCACCCAGAG
chr10	TATGCGAGATGCCGACCGC	GTCCTCCCTGTACATGGTGC
chr1	AGCAGCAAAGACCTGCATACAT	GGTAATGTTCTGAACTAACTCAACACTGA
chr5	CAGTTGCTTTCGTCGAGGTTTT	AAAAAGGAACACTCGGTACTCCTTATG
chr10	TGGAGGGTGAAGGCAGTC	TCCATCGTCGACTCCATCCAT
chr5	CAACACTGAGTTGCTCTAGTGGA	AAAATGGATCAGTGACCGCGTAT
chr8	CGCCGTTTCAGGAACCTCCAC	GCCAGGCGAGATCTTTCCAC
chr9	GGTCTCCAACCTCTTGCGTG	ACCACTACCACCTGAGAGAGG
chr4	GAGAAACCACATCGATGTAAAGCTG	CTTGTCAGTAGTTAGGCTTCTTCTGAATA
chr2	CAATGGAGAGGCGAGGCATA	CCTGCCACTCACTCGCTTT
chr1	GCTAACCTGGATGGCTAAGCA	TGCTGGTACAGTGACAGTGC
chr10	CCCGACCATGGATGCTTCTG	CGCATGCACCTTCTACCCAT
chr4	CAGACGTGTCTGATGCTCACTT	TACTCAAAGAGGTCTGCAACTATGTATTTG
chr1	TCGGGAACCTAGGGTTTTAGGAT	AGGAGGTTGAGGAGATGCTGT
chr7	TTGAAGAAGAATCAATGGGAATGAAGAAATG	ATGGTGTGATGGTTGGTAGGAC
chr9	CTCAGCACACACCAGCAAATC	TGGCCTCACCATGCAAGAT
chr1	CCTCAGACCTTGCTATTTTCATCAACC	GTTTCAAGTATTTCTTGAGTTGAATGCAATGA
chr9	CTCATCGCTAGAGTCGAAGTCAT	TCTACGACCTGACTAAGCGGAT
chr1	GGGATGGTGCCTGATGGAATTA	CAGCTCGACCAAGCAAATCAAC
chr10	GTCAAATAATAGAGTCGCCGTCTTGT	CGAGCTTGCTATCTTGCATTCTTG
chr3	TGCTCTCAGATTTCACTTGCCA	GGCCATTTGGAACACGAGAAAT
chr4	GTGCAAACACTGCAGTCTCTG	TGAAGGCACCTTAATGGTTTGCT
chr10	CAGGTCATCATCATGTGTCGAAGGA	GATGGATGGGACTTTTGAGGCT
chr7	GTAGCAGTGCTTGTGCGTC	CAACTTCCAATCGCAGCAGTTC
chr1	AGCGACATTTGGTCCCTCAA	AGGCTACCAGTGAGACGGTT
chr9	GTGCAATAGGAGAGTCTGAAGCT	GCCTACTGCAGTTAACAATCAACAG
chr10	CGGTGAGTTGCTATCCCTCA	GTCGGGTTCCATGCTAGGATG
chr7	CGCAGTCTCTGGCTAATGCT	AGCTGAAACAAACGACAACGATG
chr1	ATGATCATTTGAATTGAGGCCCTGT	TGCAATTTCTGCTCTTAACGTTATTTATTAGTCA
chr6	GGCAACCATGGATGCGAAAT	CCACCGTGTCAATTGAGGGT

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	CGAAGCGCCACTGCAGATA	CCAATCGAAATGCGCGTCTT
chr10	GGTTCTTGATTTGTCACTATGATGGTTC	GAACAAATTTATGGTTCTCAAGCGGAT
chr10	GATCATGGTCGGCTGCCTATTTTA	TTGCACCACTCTCTTGCCTTATATTT
chr1	TCCGAAGGCAATGAGTTTTCAGA	CTGGTGGGTTTCAGGAAGTTCTAT
chr9	GTCGCGATTGGGCCAATT	GCGATTGGGAGGCTGACTA
chr6	GAGCACGATCTGTAGTGTAATAAATGC	CGTCGTGCTCCTCCAGTT
chr10	GCCCTCAGGTGCATCCTTG	TGTACGTCCAACCAATCCTTAGC
chr4	CGTTTGGGAATTAATCCTACATGTCAC	CCTGCCTCAGTTAATTTCTTAGTGTTAGC
chr9	CCCTTCTTGCCTATGCTAGC	AAAGAATGAGCACCGTACTAGAAAGG
chr5	CTTTGGAAAGGTCAATGGTGAGG	CCTCATCAAGGTTGCTCCAAGA
chr6	TGGCCTTCTCCTGTAGCACT	GTGATGTCGTACTTTCTCTATGCCT
chr2	CGGCTGTGCACGCTAAGT	CTCCCGTGGCCAATAGAGTC
chr7	GCCGCAATTGGATAACGGT	TCGTGCTCAAAGCTCTACTCCTA
chr3	TCAAAC TAGGAGTGTTGGTGCAA	ACCCTTCATTAATAATGGCATTTGCA
chr6	GTCAC TGCTACAAAGAAAGATTAATCTTCTTG	AAGTGTGTAAAATCATTAATTTAAAGTGTTGGAA
chr5	GCCTTCAGTCAAGGGAGAAGAT	CCACCATAAGCCAGAATCTACAGG
chr9	GTACCGGTGTTGAAGTAGGTGA	GCTCGGGTTCCGGAGAATTG
chr8	GCGATGGACATACACGTCGTT	GTCTGCGGTGACCAACGTA
chr7	CCCAATTCTCCTATTTGTCTGCG	GCGTCATAGGCAACCGATGAA
chr6	CGTTGTTCCAGATCTTGTGCGG	CGTGATCCCGGACTTCCTCT
chr3	GATGGCTGACACAGCTTCC	TAGTTACCTCGCCTGGTTCCATA
chr8	CGCGTGTTTTCCACTGAAACAAT	GAGCTCATCCCGTCGAAGAATT
chr1	CATACGCACCAACTACTAGGATTGA	CTGAAGACTAGCCAATATGTCAGACG
chr9	CGCGAGGTAGAATGGCTCA	CATCGAGTCAGCGGTTTTTC
chr5	CATCTGCCTTAGACTACGAATGCA	TTAAACTTATGTCCAGCCAGCCTTT
chr7	CAATGCAATCTCCGTCAC TGAC	GGTCTGGCACCAGGTCATAC
chr1	GCCAGATGCACCAATCTGAAC	GTGCTGGGCCCTTGT CAGAA
chr8	GTTATTCACGACAGAACTCATAGCATGA	CTTGTCAC TAATCCCACTGTTAGTACATTTA
chr2	GTGGTGGACGGAACCCAT	TGGATAGCTTCGGCGTAGTGATA
chr3	CCGCGATAATACATGAGTTTAGGGA	GTCAAGGAGATGTGTGTTTGCAG
chr5	ACCCTCCACCAACCTAAAGC	AAGGCCTGGGTCAGCCTCA
chr4	GTTGTTCTGTGAAGCTAAGGAAGG	ATGGAGGAGGGTACGGTGGG
chr5	CTAAACATGAATCACACATAGGATCTAGCT	GCTACCATCCTAGGAGGTACCAA
chr10	TTTAAGGCCCTTAGGAGTTCTCGTTC	GAGATAACCATCCAAGCCTTGCTA

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	GGCACAGTATCACCTAGCTCC	CCCATTTCTGTTTAGGAGACCACC
chr2	AAATACCCTTTGTGTCCGTTTAGGTT	TCGAGTAGTACTCGCATTTGTAGGTT
chr2	GTACGAGTGGTTTCACTAGTTTGC	CAAAACGGTCGATACCAATAGCTTTG
chr4	TGCAACAGTGTGTGTGTGTTTCG	ACAACCTCGTATGCAACATCTACTAGC
chr6	CGAGTGGTTCCACAGGATGAAG	CGACTTTGCAGGAAGCTGAAGA
chr9	GATAAATCAACATTTGTGTTTCGCACCTT	GCACAAATAGTAAGTTAGGGTTTTGGTG
chr8	GAGGGATTGGTGCTCCACTC	ACGACAAGTCGCGATGCTT
chr2	CTCTCTCAAGGGCTAGAGGTGA	CCATCATCTCGTCCATAGCT
chr10	GTTCCAATCGGATTCCAGGGAA	CTGCTGTGGAAATTCGGGAAATTC
chr6	CATCCAACCCCTTTGCTGCAA	CAGCAGGCTTCTGACATGGA
chr4	TGGGTTGGATTTGGAACGAGG	CTACCACAGGATCTCACATCTACG
chr5	ACCCAGACCCACTGTCAGC	ATAAGGAAGGAGGAAGGCCTGA
chr8	TAGATCCTATATCTATGGCTTGGATCAAAACA	GAACCTCTGGTGTGGGAGGAG
chr10	GACGTCCTCTTGTGGCACAT	ACAGCTTCCGGAGCTCTAGT
chr3	CGGTTTGGGTGAGGTGCTTA	GCACGTTCTCGTCACGTTG
chr5	GTAGCATGTGATGGCATTTGGTAAG	GACATGCAGTCCCTGCTCAT
chr8	CCCTAATTGAGCAATCGCTAAACG	CCAGTTTTGGGTCTTAGTGGC
chr10	TGACCTTCTCTTTCTCCCGCTAA	TTGTCATCTTAATTTCTAGCCTGGTGT
chr6	CGTGCGTCTCCAAGCTCTTC	TGTCTTCCTGCTTTTCGCTGTT
chr3	GGAGCTCAGGGCGATTCTTATA	CCCGTGATTCATAGCAATCTCT
chr6	GCCAAATGTACTAGTGATGTGTTCTC	GGACAACGTGGCTCTAGAGATCT
chr8	CGGAGTTTTTTGAGGATGATGAAGAGT	GACCGACACATTATGAGTATGGTCA
chr1	GCCATTTGTGCTCGGTTTCATC	GGTTAAATGCACAGATCTGGTAAGACTTT
chr7	CGATGGTCCGACGCTGATG	GAAATTAACCACAAGGAACAAATCGAGTC
chr6	TTGATGGTCTTGTTTAATCAATGGTCTTAGA	GATGTGTACTCCTGGTGAATGAATGTA
chr8	CCCATACACATAACATCCATTACCCA	ATTGGAAAGAGGGTTCACGCTTAT
chr8	CGAGCAGATGAAACACGGTG	ATGGCACATCTCTGTTCTGTTCT
chr2	TTTGTGTGCAAAGTTAAGAAAGAATTAACCGA	GTGCAGCTATACTTGATTTGGCATAAG
chr6	CCGTAGACGCCCTGACAAAG	CTCCGGGAAGGAGCTGTTAAG
chr2	GGGCGAGGAATTTACCAGAGA	GGACCTGCACTGAGAGGTTG
chr8	CCATCTATCTCTCTACTCCTTTAAAGTGT	CAGTAGTCGATTGAGCAGATGGG
chr5	GAACAAATTAGCGCCACCATTTGT	GCAATTCAGGTGAGGCAGC
chr3	GTGAGTTGAGGCTCATCTCTTGAT	TGATTAGGTCCATTTTCTTTCAACTACAA
chr10	GTCCCTTACACTGTCTTGCCCTT	TGATTACTCGTTGCCGAGACTA

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	ATGGAGCTGGTCACCTAGA	TGCAACATGAGGATGATGTCTAGAC
chr6	GGTTTCTAGCATGGTAGTGTTCATCT	CGTGGTACTCCGGCAAGAA
chr8	GGAGACGAACGATGTTTTTGTGTG	CGGGAAGGTACACTATGGAAGG
chr7	TTGCATTGCAGAGGCCAG	GTTAGTTTCGTGCTCTGTGCG
chr1	GAGAGCCTCAGTTTTTCGGCATTA	CCGTCTGGATGGATTCCCATTTTC
chr7	CGATTGAAGACATGGACCGGAAA	TCCATGCAGATGGCACAGT
chr1	CATTAGAGCGAGCTTCCTTACCA	AATATTTATTTATCTCTGATGTATTTGGCAGGCT
chr10	CCTCCTGGCGAGTTGTAACAAC	GGAGGAACACGTACAGAATCAGG
chr8	ACCCAAGCCTCTGCATGTTTC	CTTCAGTCATTCGAGAGGAGATACTCT
chr2	CGGTCATCCTGTAGTTCTTTCCC	GGGTTCGCTGGTATGAATAGA
chr9	GACAAAGAGCCTTTTTGACAACTACC	TGCTATCTTTCTTTGTAAATCTCTACACCAT
chr8	TTGATTAATCAAGCGGTAGGTTGGA	CAGAAACAAACAACCTGGACGTGAA
chr9	AAGGGAAAGGAGGTTGCGTT	GTATCCAGCCATGCAGGTTTC
chr6	GCCCGTTCTGTTCGTGGAA	AGAGCAGATGCAGGAAATCTACAAG
chr1	CGTTCCTCGGAAATCAGTTGAG	GTTCTCTCGTCCGCAATTCC
chr2	GCCAGTGGCTTTTCGATCTCT	CTCCTGATCCAGTTGAACCTGAAATT
chr10	CATTGGTCACACATGCATCCAT	ACAGAGCACAAAGGTTCAATCAGATTA
chr7	GGGAGCTTAATTAGACAACTCGG	TGCTAACTCTCTAATATTTTTTGCCAAACATACT
chr8	TTCAGAATATGACAAAGCCATGGACTT	TCTCTCCGAGATACATACCAGAAATCATTT
chr2	CCTCTAACCCAACGTGTGCA	GGCGGACATGTTTAGATTGGGTT
chr7	ATTTTCTAGCGTGCAGAAAGCATG	CATGGGTACAGCAGCTCTAGAG
chr3	GCCAGCCAATTGCTTCGTC	GCAGTGTGACGACGCTAGTC
chr7	AAGCAAGATTTATGGGAGGTGCA	CCATTGCCAACAGTTGTCTCGTAT
chr8	AAATAGCAGGAGTGTTCAGGACTTTAG	CAAGGATTCACGCTCGACTCAT
chr3	TGCCGTCTTATGTGCTTCCAAT	TCAGCCTGCAGTAGTTTCATGG
chr6	CGTTCCGTCGTCCGTTTCTT	CCGAGGAACAGGTAAGTGTGG
chr9	GGTAATGTTGGTGGCTAAGGACT	GGCTATGACTCAAAGAAGAACAAGC
chr4	CTGAAAATGCCTACCATCAAAACATCC	GCTCTGTTGTTTAGTGTGTGTCAGTAGT
chr2	CTTCGGCAACCACTAATTTCTTCA	GGACGATCCCAGCCCTAATTA
chr5	GCAAGAAGTTGGTCAAAGAGGACT	CATGCTCTCTCTATCTTGGACCTATG
chr9	TGTATGGACTTCCTTGGTTGGTTG	GTTTGGTCTTGGACCCATCTCA
chr6	GCTCACATGTCCAACCTTGAAAT	AACAAGGACCATAAATGCTAGATGG
chr4	GGTTAAGGGAGGGCTCGTTTTTC	CCCTTGTCTTAGTCCATAAAAGGGAG
chr3	TGACACGTACCCTCGATGC	CCTAGGTCATCATGGCACTGTT

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	CATGAGACCAGAACCACACAAGATA	GAGGTTGGTGTGAGGTTACCTTATT
chr7	GAACCTGATTGTCTTTTCCACATGAA	TGCTTGGGTCCAGAATCTGC
chr2	CATGGGATGCAAAATTCCAACAGTT	GAGCCAATGGGTGTGCAC
chr7	ATGGCGGAGGCTCAAGAAGC	GAACTCTAGATGGTTCCCAAAAGTCAAA
chr6	GGGTAGTTCCAGAAGGTGTAGA	GTTCGGGTTCGGCACTAACT
chr10	CGAATCAAAAGTGAATGAAGCTCACA	AGCCCGATCCTCGTCACTAA
chr7	GTGCCGTGAGGAAAAACAGAGAT	GCAATTGTTGTCCGGTGAGAAATC
chr9	CCATTTGGACTGGCACCTTACA	CAGGGCGAACAGGATAAGAAAAATC
chr3	ATAAATGGACACAACGCACGC	GCACTAAACCTGAGCCTGACTC
chr9	AACCGGTGGACGAGGTGTC	CGAAGTGCAACGTCTGCAC
chr6	GGTGATGCCTCCCGATCAAAG	GTCATGCTAGTTTAGGGTTGAGGTAATAAG
chr3	ACAAC'TCCTTTAATGTTCATGTTGAACAAA	TCTGGAGGATTTGCAT'TGCC'TTT
chr9	TCTTGTA'TTTTCGCCCAAT'TCTGCT	AACCAATATCACAACACACTTGAGGA
chr8	TCCTTTTCGAGCTTGGCATCAAA	GGGAAACAAGTGCTACCGGAAA
chr3	ACGCTTATGTGACACAT'TATATAACTATGATGG	TAGTAAGTGGTTTGACGAAA'ACTGACA
chr10	AGGATCCAAAATTAGAAACA'ACTGCACTA	CTACAGGATCGTGGTAGGGATAGT
chr5	AAATTCTCT'TTCATAAGATAGCATCTTGCT	ATTGAAGTTATGCAAGCAGTTTCTTAAAGG
chr2	GTGCGTCTGCCCTCAAGA	CAAGTGACGCAATGCAGATCTTT
chr1	CGTTTTGGACTTCCAGAGAGCTA	GTCTACCGTACGCTGCAATCTT
chr3	GCACCTAAGTTGCGAGCAAT	GAAGGTATAT'TTAATGACATATGCTCCAGTGT
chr7	AGACCTCCTG'TTTTGTGTAT'TATTACAGG	AAAGGAAGTCAAAAATACTGCCTCCA
chr8	TCGGTGTGTTGTGCAATACAGA	CAACTCTCCGAAGACCAACTCTAAC
chr9	TTTGTGTTACCAAGTGCGAC	GCTGCGACATATGGAGGAGTAG
chr3	CAATATAGAAGAGCCATTGCGCC	CTCTACAGGTGGCTCGTCAG
chr6	GGTACTTCAGGACAATGACTCTTTCA	CTATCTTGCATATGTCCTGGGTAATCAA
chr9	CCCGCTCTGCAAACTCTACG	GTTGCTGAAAGGGTGTGAGGA
chr6	CCTTGCGGTTTCATGGAACAT	AAACCGATGTCACGACGTGAT
chr10	GGGCTACATACCAGTGT'TGAT'TATCA	GTCAGGGATTTCCACGAACCAT
chr9	TCAGTGTTTTGCATGACCATATATACGT	TTCACAAGGTTGTCTCACAATCAT
chr7	GTGCTGATTACCTTTTCTGTTCC	GTCTATGTGATGGACATCAGGACA
chr3	CAGAGGTTGTTGGTTGTGTTGG	CCATACAGTGTGATGGTCCGC
chr4	ATCCATCGACTCGCTCGGG	CAAAAGCTACATAGATCACGGTCAC
chr9	CAGCAGAGTCGCTGTCTTGT	GCCAGTAACTACTGGATGGCTT
chr1	CAGTTTGGGTTGAAGATGCAGG	TGCTTCTTGAGCTAGGTAAACCTAGA

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	GGAGCGTAAGAGATGTCATATGACC	GAGTCAAATGGCTTATGGGTTGAG
chr6	CCCTCCAAATAATCTTCAAGCTTCCT	CCCAACATTCATACCTCCTCTGTTG
chr1	GCTCCTCTCGATTTTGTGCTTC	CCGCGATGTAGACGAGCTG
chr7	CTTGAGATCTTTGGCAGACGGT	ATAGCGTCGAGCCGAGAGCT
chr5	CCACACTTCTTTCAGCCAAATGG	ATGGTATATTAGCAAACTGATGTCTGATG
chr3	CCTCTTCCACATTCGACATCCGA	CGCCAGCCTTGAGGAAACTATT
chr4	GGTAAGAAAGGAGAGGACTACATGTGA	GCAGTAGTGCGAATGTGCGATA
chr6	ATACTGCGACAGCGGGACA	AGAGTGCAGGCACAGGTTTC
chr3	GCCGTAGAGCTTAACCACCC	GGTGATGAGCAAACTGAGCG
chr7	GGGCTCATACTCCAGCTCAT	GTCGAGCGAGAAGAGCTCCGA
chr8	GCGCTCATGAGTACTTTTAACTTTAAAACA	CCCTGATGTGCTCTGATTTTGG
chr6	CTGCAAAGCGGTGTTAGTTATGAT	CGGGAACAGATAATTCCACTTACATTTGAT
chr2	GATATAGCTGACCCAGTAAGCGATG	GTTTATTGCTGTCAAAGATGTACCTTTTATGTT
chr7	CTCAGTATTTTCGATAGTTTCTGGTACCC	TGGAGATTCTAGGTGTCAGTGCA
chr6	AACTGCATTGGTTACTCTTCTCTCTG	AGCTCCATTGCTACTTACATAACATGG
chr8	ACTGGTTGACGTCAAAGGCA	CCTGGAGGCCCTAGCTTCTTG
chr6	CAGAAGCGGGTAAGAGTCAGTAC	TCAAGGCAGCAATGGCTATCAA
chr7	TTTGAAATATGAAATCTGAACCTCGCAAAA	GCTCGACAATTGTTGTCTAACAACAG
chr3	CGCAAAGATCCCAGATGAGACG	AAGATAGCGAGGAGAGGGCTCT
chr4	TGTGCAATTAGTTGAGTCAGTAGATAAGC	CAGCCAGGAAGACTGCTGT
chr2	TGAGAGCATGTACCATCGACATTG	ACGACGATATAAACACCTTGATTTCCAT
chr7	CGACGCTGACGATGTCAAGAG	AAGTCCATCGTGTCTCTCAGCTAC
chr8	CACGGGTGGGACATCATGT	CAGCAGCAATGTTAGCTGCAA
chr4	GGCCCAATTTCTGTAGTGGTCA	GAGCAAGATAGGTACTGAAGCTGTATC
chr7	GCTCATTTGTCAAGAAACCCATCCAA	GTGAGCTTCCTTGCAATCAAACC
chr1	CCCAACATCACGTCGTGTAA	CATATGCTGTTGCCGAGT
chr8	GGATGTTAGAGGACAGGTCAAGC	CTCAGACACATTTGATTCGCGTC
chr4	CAAGATGCATTTGCTCAGTGCAT	CCAACATCTATGGACCCATTCCT
chr1	CCGTCGTCTCCAGTATGTCG	TGTGCATCTCATGCAGTCGA
chr7	TGATCAACATTCACCAGGACAGTT	GCAGATATGACATGGGTGCAATCT
chr8	CGGTGAGGTAATGAAACTGGC	GGTTGGCTGCCATCTCTACA
chr3	ACTCACAATCTATGTAAGTATGCTGATGTTTT	TGAAGCACGAGGTACAATTCCT
chr5	TCTCCGTCCCAGACCGCAT	GTTCCCGTTGAGCCCGTA
chr1	ACAACAAAGCATAGACACGAATCGA	CTGCGCCACTCTCGTCAT

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	TAAAAGTCCTTATATGGGTGCTAGGAGT	CTCCTTTGACTAGACTTCTTTCATCTAGAAC
chr4	AATCTAAACTCACAATGCCTCGAGTT	TCTGACTCTATTTCTGTTGATTTGAGTTGG
chr4	GGCCATGTTTCGGGAACACTA	ATGTCTCCGCACGGCTAC
chr3	CGGCAACGAGCCTTATATAGCA	ACCATAAGCAACATCTGATGCCA
chr2	GCGCTGGTTTTCGAGAGAATTC	GCCGGTGTCTTTCGATGTCT
chr4	CCAGCACCTCCGTTGTTAATT	GATGGCTATACTCACTGTGAAGGTATG
chr5	GCTGTCCTTCTGTTGACCTGA	CGAATCCTGTGCAGGGTTGAT
chr2	TTGCTTGCATTTATTGCACACTGT	AATGTGAATCCAACAAGCACTAAGATATGA
chr4	CTCATCATTTGTTACTGAAACGGTGAG	GAGGAATGCATCAAGTTTGGTCC
chr3	GTGCTCAGTCACATCTTGGTCA	GACGGTTTCAACCTTCATTCTCT
chr4	CGTTGACAGACTGATGTGACCT	AGAAATACATGGAACCTGCGATATATGC
chr2	CCAGCTGCAACGAGTCTAAGAG	ATCTTGGAACCTTCGTTGGAACAAGATA
chr1	GGTTGGGAGGATTGGCCTA	GGCCTGATGTGGCAACTCA
chr5	AATAGTTTGTTTTGCATCCGCTCATAAC	GTGTACATTTACGTCGTCCATTATAAGC
chr4	CAATCCTCGTGGACCTCCG	CTTGACGGGATATGTTCCACCC
chr1	CTAGCCCTGCCACCAACA	CGGGAATGGTAGGGATTGTTGTT
chr2	ATCCTAGCCATCCATTACTACAAATGAAATT	CATAACCTGCAGCTGAGTTGAATC
chr3	TGGTTTGTGTCAGGAACGACATAGTAAG	AGAAGATCCTTAGGAATAGCTTTTTCCAG
chr2	GTTACTGGGTGTAGTAAATATACACGCT	GTTTTCCCTTTTCCGCGTTCCAA
chr4	ATGCAACACCTATCATGTATAACCATTTCT	GGAGCATAACAATAAAGCAATAGTG
chr3	GATTAAGCCATGAACGAGGAACATG	GAGAGTATGATGGAAGAAGTGCCAA
chr2	ATTCTTCAAAGGAGATGGGTGCA	CTTCCACTCCTCCAGAGTC
chr3	CCAACCTTTCTCTTCTTCCCTA	GACTCGGTTCTTAAAGCTTGTTC
chr2	CGAGATAATCGAGAAATGCGATGGT	GTAACCTCAGAGACAGTATCTTGTCCATC
chr5	TTGTTGACTTATGTCCGGTGGG	TACCAGGAGCTTTTTGCCATACTTAG
chr3	GCTGGAGACGAGGAGTAGATGA	AGCGATGCCAAGGAAAAATTGG
chr2	GGGACCTCCATGTCACGTC	CCGTGGAGAGCTACACGAAC
chr4	GCAGTTTGTGCTTTAGTGCCCT	CAGCTTTCCACTCATGACCTACTAAC
chr4	TGATATCTAACCATGTTTTTCATAACATGTAGGG	ACCCGAACCTGACCCATTGC
chr2	GTGGATCTTGTGTGGATTCTTGTG	CACAAGACAAAATAGGACAAGGTTGTTG
chr1	GCCTCCGTGCTGTTCAAC	TTCCCGCAGCAACAGCCTT
chr3	TTCTGATGTCAAGTCTTGTGACTCG	CGTAGTCCCTCGAGAAATCTGC
chr4	CCTGTCTGTAGCTGATCCTG	CCCGTTGAATCCAGCAAAGAAG
chr2	CCACTCGTGGTCATGATCATGG	TTCCCATGCACGCAAGAAACAC

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	CCTTAGTGAAAGTCGAAGCGCA	CCTCGATCCACGACCAGAAGA
chr1	GTGACTATGTACTTAGGTAATTTATCTTCTCC	CCCTATTTCACTCCATTTCGCTACATTAC
chr1	GCAAAGCTCTCTTCGACATTTGT	GTTTCCTCCATTTCATATGGCTTAGCT
chr1	AAACGCCACCTCGCTTCT	CGATGTGGGCTATATTTGTGGTGT
chr1	TGGTCCACCTCCATCATCATCA	AAACCTATTTGGCTATTTGCATTGTTTGTATT
chr1	GTCACCTTGGGTGGATTGGTCAA	GCTCCAATGTACTTTGGAGCGAA
chr1	GAAGGAGGAAGAGATCAAGGTGTG	CTTTTCACCAACGGGCAGC
chr1	TGCTAGGCTTCTGCTCAAACAA	AACAGTCATGGTGCAAGTAGCA
chr1	GCCTTCAGGGATCGGTAAACC	AATTTAGCTTTTCAGGCATGGGATACA
chr1	CACAGGCCTATGGAATTGCAAC	TATTTCTGTGCCAGAACTATTAGCTG
chr7	CGCAAGGGAGCTTCTTGGG	TTCGAACCCGAGAGGTGCT
chr3	TCGAGCCATGTACGTGCAT	AGATAGATCCATGGCCATGGTCA
chr5	GTTCCTGCTTGAGCTCACTTG	AGCTCAACGTATTTCTTCTGCCAT
chr2	AGAATCCGCACCCAACCTTTGAT	ACTCAGCAACTTATACAGGTTCAATTTTCA
chr6	AAGCTTTTATCTTCTCATAGAAAAGAAGGAA	GGGCACTTTGTTCGCTTATGTG
chr6	CTATTTGTCTCAACCGGTGATAATTTAGC	TGCAAAAGCAATTGCTAGCTTCTC
chr3	GAAGCATGAAAATTGATGGAACCTACGTT	TTGAAAGGAAGCTTGGAAGGGAGGAT
chr4	TGATGACAACGATGTCATCGTCA	CATTCCGCATAGGGTCCCAT
chr8	GCATTGGACGTCTTCTCTGC	CAGCATCTCTGTCTTCGCCA
chr3	TCGCACATGCGTTGTCATG	ACCAAAAACAAGCCCTCAAACACTA
chr7	CCTTCCTCTCAATCTTGACAGATTCA	CTGCCAATCCTTGACATGCA
chr5	TCCGAGACAATAGCTCTCCTCTC	GTCATCCTCCAGCATCCTC
chr8	TATTCATTGGCGGTTGGACGTT	TTGTGAGCACATGCACATTTAGTTC
chr3	CCTCGCGATGTCACCTGT	AGAGACCTGTTCAAGAACTTCATGG
chr8	GGCTCTACGACCACAAAGAACC	CGCTGGTGGGAGCTTCATTT
chr2	GGTCACAAAACCTGCGGAAGAGT	CTACTTCTTGCTCCTGCAGCTA
chr4	AGTATGTGGTAGTGATGCTAGATATATTGCT	TCCCAACTCTCGTTGTATGATATATTAGGT
chr3	CCTGAACATTTACCTGCCTGTT	CCCGACTTGCTGTGACTAATC
chr5	GTGCTGAACCTGACCATGAAC	TTGCAGGTCGTTGAAGGACA
chr5	TGGTTCTTGATTGGTTAGTTGTGCA	CATGGGTGGCACAACCTTTCAA
chr6	GGTTCAGCACGTACTCGGA	CTCCACCACCGCCAAACCTTC
chr8	CACAACCTAAACACCAGCCTAGA	TCAGTGTTAGCAGCTTGTTCATGAAT
chr1	TTGTACTTTCTTTGTAAAGTTTATGAACTCTCT	TGGGTACCATTGGGCTCTTGATA
chr9	GAACCGACGCAAGGGTTTC	ATAGCCCACGAGACCCTCT

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	GCTTTTCGGGTGCAGTCATAAC	GCTTTTCCGTGCCATGACC
chr6	GAATTTGCATAACCACTCAACTAGCATT	CTTTCTCCATTGAGTTTATTGTGCCTTATC
chr5	GTCTAGCACCTGCAACGACA	AATAGTTTAGGAGTGTTGTCCAAGTAACTC
chr1	AATGGACTGCACGCTCTCAT	GGCACAGATCATGCCACCAT
chr9	TAGCTGCTGTGTGTCGCTT	GAAGCATGTATATGTTGCATGCACA
chr3	CCTTCTCCATTTCTTTCTCTTGC	ATTCAGACGAAATGTGGTTAGGGAAA
chr9	GGCCCTTCTTAGCCTCTTCAAT	GCTGCTCTACCTGTTGCAGATAT
chr1	AGTTAGACTGTGGCACGCG	CGGGAGCTGGTGGTCTACT
chr2	ACACAAGAATGGCACAAAATCGT	CCCATCACATGTGTTGCAATGTAAAAG
chr6	CCTAAAGTGTAAGTGGTATGCTTTTGTATTG	AGAGCAAATAGTGAATGTCCGACAA
chr4	TAGTGCAATTTTACGCTCTTCGTT	CTGGCCACCTGCAAGCAAGT
chr7	AAAAGTACTTCACTGTAGGCAGTAGC	AAATAGTGACCATTCCTTTCTTTGAAGCTA
chr2	GACGTTAGGCTTTGCAGCAT	TCAAGGACCGAAACAAAAGGTTAGTT
chr3	TGTGGGAACTCCATGATTGTCG	GTGCTCACTTTCGTCCTCATCTT
chr10	GATATAGGCCTAACTAATGTGTATGTGCAA	TGATTTCAGTAGTAGTCCTTGCAAGACTTAT
chr6	CAACAACCGTTATATATAGTTCTGCTGGT	CGCTCCTCGGGACTCTTTTG
chr4	CTGGCCAGCTCATTTGTGTGTC	CAGGTGCTCTGACCTAGCA
chr10	CGGTTTCGAGCAAAGGCTCAT	CCCTAGCAAATTAATCCAAAAGCAAC
chr7	ATGGACGCTCATATATATTAATATACCAACA	ACTATTAGCAGTTCATGTAAAAGAGTATGCAAT
chr1	CGCCCATAGTTGACGATGCA	CTCCGGATCCGCAACAACGT
chr3	TGCCACAATACAAATAAACTCAAACAAACA	CTTGCCAATTTCTTTGGTGAGGG
chr6	GCGGACTAGGCCTAAATCCCT	CACAGGGAAGTGACCTGGTTT
chr5	TCCAATACTTTACACAACCAAGTGCA	GCCAAATTCGTTCCCTACCTCTTC
chr10	CCTTGCGCAAAACCTATCCTTC	CTAAGCAGGTGTCCTATGACGG
chr7	CCCGTAATCTCTACTACTTATTAAGTAAGCAA	GACCTGTCTATGTACTGTTCAATTTGTTG
chr2	AATTTTATGTGACTTCTCGTGTTACCAA	GATACCATGAGTTGATTTCGTAAAGTGAGA
chr6	GCAACACCTTGAACCCAATCCA	GCTGGATTTCCTCGTTTTCGGTA
chr5	CAAGGATGGCAATTAGAGATCGGT	TCAACTAGACAGGACTAACAATTTTCAGC
chr5	TTTTTCTAGCGTTGGCAGGAA	CCCAACCAATTCGACCACTTC
chr6	TTTCCAACATGCATCCTAGCGAA	CGCTTATCACCACATACGCCAA
chr4	GGGATCAAACCAGATATGTTGTTAGCA	GTTCTGATGCAACTCCTTGACATG
chr8	GAATTAGGATCAGGTGCCTGGAAA	AATTTAACCGGTATCTGCCTGGAA
chr1	ATGTCAGTAGAACTTCCTTGAGATTTATC	TCAAGGGCACACCATATATGGC
chr4	GTGGGCGACACGTGAAGA	GCAGTACCCGACGTTTCGTA

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	TCGATGACTAATCGGATGACAAGAAAAC	CCCAGTTAGGTTTCGCTCGAT
chr5	GACATACCTTTCTTTTGATAGACTTGCC	GAAGCTAAACCTGTGGTGCAAG
chr7	CCCGAACATACGATCTGATAACAATAATG	GTGTCAGCCCTAGCTTAAGCTTT
chr8	TGTATAGGACGTCCTGTGGCA	ACAGGTGTTATCAGGTGGAACATTG
chr10	CCATGGCCGAAGACACTCA	CGCCCATCTCCCTGCAATTAG
chr3	GTTGTGATCCATTTTCAGACATTTTCAGC	GGGTGTGGGTGGTGAACATATG
chr5	TCTCCTAGATAACCCACATAAAGTACTTGT	TACCCACACTTGTTAAATTTATGCATTTGC
chr4	GGCGGTGATTTTGTAGACATGT	CACGCCAGATTTGTTTCGTTTAC
chr8	TGCCATCGCGTACTCGGAG	GGGTTTCCCATCTTCAGGGATC
chr5	GGCGCAAGAATTTGTGGAGC	TGCTCGACGGTAACAACCTC
chr7	TTTGCATTGCGATGTTTCTTTTTCTTTG	TACACCAGCCAAAAGCTCCAAATA
chr6	CCTTCGCATGAACGAATGCAAC	GTATTTTCATCTCGATGGTGAGTGAATGAT
chr3	AGATCGGCTCCCTGGAGAC	GATATGTCGAGGTACTTGAGCCTC
chr1	GGGAGCTTACAGCAATGGAGAA	GTAGAGCACCACCACAGTCCAT
chr6	CCGTGCAACATTTTCCTGTCTGA	AAGTAACCAGTTGCTTCCTTCGT
chr1	ACACTAGATGTGTTAGAAAGCCATAGAGT	GACCGATTTATGCATTTCTCTCATTTTCC
chr9	TGGTCGCTCCAAGAACACATC	CTCTGAAGGCAGTTTAGGTAGAGATT
chr1	CCGCCAGATATACAGCTGTG	GGCCGTCCGTTTATTTGAATTAGC
chr2	CTTTGCGGCAGGAAGCAGAC	TTTTTCTCTCCCTTTCTTATCTCTCC
chr10	AAGATTTTAGACCATGTTGACGTCTCAT	GTTAGTGGAAGTGGCAATGATTAAGAAC
chr5	GACTGGAGCTACGACACAGAG	TCTAGCCGGTGCCTCCCTTC
chr3	GATGCCAAGGATGGAAGGGAG	TGACCTTCTTCGCCACATGG
chr3	GTGATACCAGGGAGAGAAAAGAGTTG	GCGAGCGATTTGTCAAGCT
chr1	CAAATGCTTTTGCTCCGCAACTA	CGGATCCATTTGTTTGTGTAATTTGT
chr6	ACTGACCTCTCACGCTTGC	GAATGAAGAAGAGAACTGCAGAAAAGC
chr2	GCTTCCGGAACACTGTCACA	CCGAAGTGGAGACTGTTGCAA
chr4	GGACAGGACGCAGCCTTATG	GCGAAGAGGCTGCGTCTTAG
chr4	GTTACCCTTGTTGACCTGTATGGT	ACCAGCAAGAAGATAGAAACATGTAATTCA
chr3	CATTACCTGCTGTTTCGATTTACGG	TAAGATGGAGGGAGTATAAACTAATGGCA
chr5	GTGCTCATGCCATTCCTACAGT	GGTGAGGTCCACGACAATCTTG
chr6	TTGTGTGGACCACTCTAGGTATCT	ACAGTGACCACGTAGAGAAAGAGT
chr9	GTTCATAGTTTGGTTTGGATTAGGGTTAGT	CTAACAACCAAACTACAAACAAGCCA
chr2	TTCAGCGAACGAGGCTTCAA	CGTGTACCATCGTGCATCGAT
chr10	TTCTTGGGTATAACTGCAAGTGCA	TGCTGTACGGATATGGCAAATCATAG

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	GGGTCGATTGATTCTTCAATTTCTTG	ATGGCCTCGCCAGGATCTC
chr6	GGTGAAGAATTCCCACCATCTTG	GCTTAACTCGAGATAAACACTTGGGATG
chr3	CTTCCCAGCTACACAACACCA	GGGAACGACCTATGGATTGC
chr2	CAGTCGCCAAGTACCACCTTTGA	TGTAGGGCCTTCAGATTGCTTG
chr2	TATCGCCTTGACGCGAGA	GTTACGCCTTCACAATTCACCA
chr4	CCCGGTGCTCGATTCACTA	AAGACCCGACCGTGTCCCT
chr8	TCCGAGAGGTCATCCTCATCAA	TGAGGAAGGAGACAACCTCCTC
chr9	CAATGGTCTCACAGTCCCAAACCT	GTTCGTCAAAAACTGGATTCAAGCAT
chr10	TATCATCATTTTCAGCACCATAGTGATTGA	TTCTTGTGCAAGCTCTCAGGAG
chr6	CGCGACTTCAAGTGCGAT	TTCCCAGGTGAACCACAGGAA
chr1	TGACCAGGGACTTAGTTACGCT	GCGCACTTCGGAGTTTGTGTTG
chr8	CTTCTCCTTCAAAGGAGCCTCTTT	TGTAAATCCTCCTACATTGTCAATAAACCC
chr2	GGTGGCTTTATCGCAGGTCA	TCGAGCTTCCTCTTCCACCA
chr9	CTTGTCGAAGATTGTGAATGACAATTACCT	CATTACCCATTGAAGCCTTTGCT
chr10	TGATGCTTGCAGAAACATTTGCA	CCAAGAACAGCACAGAGTAGAAACATTA
chr9	TTACAATGGCCGACAGCGACAA	AGTATTGGTCGTCTGTTTCAGTTATATTCC
chr10	CGAACACGGTCCTCTTGTC	CGTGCAGCCATCCAGTGA
chr7	AGCTTTTCGGAGTCTCTGGC	GAAAGAGTCTAAAGAAAACAGCCAC
chr1	TTGACAGGGTGCCAGTGGC	ACTCGTTTCATGCCTTATCCAACA
chr2	CCTCTTCTCTCGTCGGTAAGG	GGTCCTACGGAGGAGGGAT
chr6	ATGAAGGTAAAAACAGGAACAGATACAAGT	GTTATTTTGTGGTCTGGCATGCAT
chr8	AGGGTTCACCTCGTGATGAGTTG	CTCATCTCCTGAACCAGGCAAT
chr10	CCCGGAGCTGATGAAGATGAG	CTCCAGGACCAGGTCTCTGA
chr8	GGAATGGGACCTGGATGAGG	CTACAGGCCAACCACGCTA
chr2	TACCTGCATTGTGATACTAACACGG	CTCCCGAGTCGGAACCAGAC
chr2	CCCTTTGTTTTATGTATGCCATCTAGATGA	GCTCGTATGTAAGGCTCCAATCA
chr7	GGCTATCACGACGTGGGTC	GTGTCGCCCAGATTTGCAC
chr10	CGTCGCCGAGGAGAATGTTT	GCTCTGAGCAAGCACCTGTT
chr5	GCGGCACTCTCTTCTCAAGT	CCGCCAAAGTTCTTGGGAG
chr3	GAACCTACACATGGTTTCATCCAAC	AATTTAGGATGGCTAGAAGTTGATGCA
chr8	AACCCTGGCTTCCCGTCCT	AGCGCTCTTGGAAGCTATTCC
chr1	TAGTCAAACCATCGACTATAGGTCCA	AGATGCTCTCTATGTTGCATCAAACCTAG
chr2	CTTGGTATTTCGGAGGCGTCA	CCCACGACCATCCCTAGATC
chr5	CCCGTCGATGACATGAGTCC	GGCCTCACTGTTGTTCCCTCC

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr7	GGTCCTCCTGCGGTCTTTG	GGACATACAGCCAGTGCCA
chr1	CAGTCTTCCTCGCAGGTCAG	CCACCATAGCAACAGATATTTGCGAG
chr8	CGAAGCTCGCCATGATCTC	CGGGCTCTGTGACGAAGTC
chr5	CCTGTTTCTGTGTACTGCTGGAT	AATCAGTATTGCATCAAATAATGACAGC
chr6	TTTAGTGGACCTCTTTGCATGTCA	AATGTGATACAGAGCCTGTAGAAAATGT
chr5	CCCTTCACCAACAAGCCTACC	TTGCGCTCCCTGGAGACGAG
chr2	TGAGTACGACCTTATCCCTCCAC	TGAGGGACTATGAAAAGAACCTCAC
chr3	ACTTGGAACAGAGCATGACG	CTGGACGCGTGGAAGCAGT
chr2	GGAGTAACCAGCAGTGGGAGTA	GGCCTTCACCTTGTACAACCTACG
chr3	GCATGCAAAAGCGACCAAAATC	CTTGATCCACTCGAGTGCTATTTTTG
chr5	GCCCTGGTAAGGCACTCATG	CAGTTTCAATGCTCAGAACATCTCTG
chr5	TCCACACATTTGCATGTCTCA	TCACGGTCACATCAAGAGGTTTT
chr3	CCGTGTGCTGGCAATGTG	CTTCAGGATGAACCGATGAAGCA
chr1	CTCGACGAGCTCGACAAGGAAC	TCCAGTATCGACGACTGCAC
chr5	GGAGCAAAAACGGGTGGATTTTT	CCCAGATTCTCTTGCATCTTCAC
chr5	GTCTTTCTTGTAGAGTTGGAGCGT	CATCTCTCCAAACAAAAATAAGGGACTTC
chr5	TGTTGATGTAAAAGTGGGTGTTAATGGT	TTCCAACACGCAGCAAAGAACTGA
chr1	GCTCGGTCTCCACATAACA	GAGCTCCACAACCTGAATGGTG
chr5	AGTCCTCGAGCAGCGAGAC	GGCGTGCAGGTGAAGATCTC
chr2	GTGAAGATGAGCTTTGCACTGTTC	CTATGATACTGACTCTTCAGCCATAAGC
chr2	GTTTCCCACTGGAGAGATTCAAG	AGTGGTGATAACAGCAGGTCAAAG
chr2	GCCTTTGGGTCAAGTTCGTTGA	TCTTGGACCATGATGTGGTAGTACA
chr1	GACTTCAGCCAACTGTAAACTTAGG	ACTCAACTTTTACAAAATTAGACGGGTAGT
chr3	TACCAATGAAGGTGCTCCCTTAGA	GGGTGATTTGCGGTCTTTCTTC
chr2	GCTGTTGCAAAGCTCCTTCC	GGAGCTCAACATGGATCTCTTCA
chr2	CGGAACCTAAACATGGAAGTCCT	CATCGGCATAAGTTTGCATAAAGGA
chr4	GTTAGTGAGGACATAAATGAGCAGCATA	CCTTCTGCCTCCGATGTTGAAA
chr1	CCCTTGCAATGAAGTTCTTCCT	CAGGATCGAGGAGGAACAGATG
chr1	GTAGTACATTTGCTAGCAAAGCAAAGG	GTTGGAGCTTGAAGACGATCTCT
chr1	CCGAGGATCAAGCACTATACAG	GTAGCTCGGGTCTCTGGATTTTC
chr1	CGCTCGTGTTCTGTATCGAT	GCGCAACCTCAAATCCAAGA
chr1	GCCTTGATACGCTCCAGGT	CCATCGGAGAAGCAAGTGGTG
chr2	TAGATGAACAAATGAATAGCAAGAACTGTCA	TCTCCTGGACGCAGAGGAGG
chr4	GAATCCCGCACCCAAAAGTT	GCCGTGGGTATGGCAATTTCT

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr10	GCAGCCTAAGAGAACTCTCCG	ACCGCATATACGCACGCAT
chr2	CTTCACGAACTGGCGCTG	GCTGTCGTCATCCATGAAGGG
chr7	CACTCATGTGACCACGGATCT	GTGAGCAGTTCGAGCAAGACT
chr9	GATGGTTGGGCTCTCTAGTGAAC	GTGAAGTTGTTTCAACAGCAGTTTGA
chr10	GCTTCTTGCGAGCTCTCCTC	TTGCCAGCTGACAGGATAGG
chr6	TGCTCTGCATTTCTGTGCTCA	AGATGTGCTAAACAAAACGCGG
chr2	ACTTAAAGATTCTTTCCAGTTTAATTCGATTGC	GGGCATATATTCTTTTAACCTCAACTTGAA
chr3	GAGACTGCATGCTATTAACATTGGAAG	ATTCAAGTGTTTTTGGAGCATCAATGTC
chr6	GCCCATCCAGTAGAGGTTCAAC	TCAACTATCTTGTACTCAGTGCTATGGA
chr9	GCTGCTCATAACCTCCTATCAGTG	CAGCTCCACCAACTTATTGAAAAATCAT
chr2	CACTTTTTGTAGAACAATGGTTTGTGCGA	ATTAGTTTCCCATGGATCAAGGGAC
chr5	ACTATTCGGAATTTGTGAGATTCTGCT	GGCTTGTCCATCTTTAGGCACAT
chr8	CAGTGGGCAGCATTGTCTTG	CGCTTCTAGAACAGGAGGCT
chr7	CGTCTCAAACAGCACAGAAGTTC	TCATGATGGAGGACTTCCTTCAGA
chr8	TTGCCAGCGCTGATATACCAAT	CCAGGATCCGCAGCTGAAATAG
chr8	TGCCAGAAAACATAGGAGGTTTGT	CCAACAACAAGGATTGTTAAAACTGAGG
chr5	TGCATTGACTGATTCTAGTGGTCTG	CCCTCAAAAATGGACTGTCAACA
chr10	GGATGCACTCGTTTCATTTCAGC	GGCGTACGTATCTGATCTGTTGTC
chr7	ACGAAGCGGTTGCTGACTT	GCTCCCTTCTCCTCAAGCAG
chr2	CTCGGATGTTTCGACGACATCT	GCTCCGACTCCTTCTTGATCTTG
chr3	GCTGTTAAAAGGCTGAAGGATTATAATGC	AAGCAACACTTCCATTGCGCATATATG
chr4	ATCGAGGGAGAAATTAAACGGGC	TGTCGAGCTGCCGACAGAG
chr6	CTTTGGCCTAGCACTACTGCATA	ATTTGTTTCGGGATCTTGTCGATACTAG
chr1	GGCCAAAAAGCTAGAGATTCTAGGA	CCGCTCTCAGACAACATGTCA
chr10	CCGCAATCGAAGGAGGACATA	GTTCCGGTGCCGCTTCCTT
chr3	CGGAATATCTGTGTTGCCCTCAA	GCAGCATGTGCTGAGAAAAGAAATCG
chr9	ACTCGCGTGGAGATATAAGAAGC	CTTTGATGACGTCTCTTGCACG
chr7	CCTGTTTCGGGAAGCTCTTCTTC	CTCTTGGCGAGGAACGGGT
chr7	AATACTGTACCGGAAACATTGGTGT	CTCTGTAGTTGGTACCCATTTTCACA
chr5	GGGACAGCTCTACCAGCTCA	CTCAATCAAAGTCGGTTTGGTGG
chr2	TTGTCCTATATTTTGGAGAACTGGAGC	CATGCATGTGTTCAAGTTCTCTTG
chr2	CTGCAAGCAGGGAGTTCCACA	GCTTGGAGGTGCATGGTTTTT
chr8	CCAACAAC TGAAATACTTTGGCTTCATATG	AGTTCATCCCAAGGTATGTTCCG
chr5	GAAGGGCCTTCTCGGGTTTTT	TGATGTCTCAGCCGAGTCTTTG

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	CCGTCAACAGTTTTCTGGGTG	GGTTTGATGACAACTGTTTCATGCC
chr2	TCAGCTCAAGAGGTTAGGGCATA	AAGTCCCACCCATCAAGATGAAC
chr2	GTAGACGGACCTGGAATCACATC	TGTCCGTGATGAAGCTCATGAG
chr4	TCTCCCACAATTAAAAATCCATGTTATGAGA	GGTGAAGATCAACAATCCATCACCA
chr4	CAATCAACAAGGCCAAGCCTACTA	TGTTTTGGTCAAGATGTAGTATGTCTTCC
chr9	TTTTTGCCCTTTGTGGTGTGA	CCTTGTCGCTCCCTCAGTGC
chr5	TCCCTCCCAGGAAGCCTT	GTAGTAGTACCTTGTCGAACTCGAAC
chr8	ACACTTAGCAAGTGCAGTTATATATTTGGA	CTAATTCGAAGCATACACCCAAGAGATCA
chr10	CAGATACACTGTGGAGTTCCCA	CCATCTTGGCTATCCTATCGAGAATCT
chr4	TGATGCGAAATGGTCATATACAATAAGGT	TGTAGCTTTTCATCTACTTTTGGGAATGAT
chr4	CAAACAAAAGCTACCCACATGCA	GCTTCGCTCAAAAGCCGAAATATAAC
chr4	AAGAACTAAACATGGCCAAGTCTCT	CGACTCTAGAGAAGTTTGATTCTAGACG
chr7	CCGATTAGGAAAGATTCTCCGCT	CGAACCGAACCGGAAGTCTAATC
chr8	GTGAAAGGAGCCTGAACAGCA	GCGTCCACGTCTATCCCTA
chr7	CAGTGAAGGTAGTCAACTATAGCCG	TGGAATGATTGTGGCCCTTCA
chr3	CGGCTATAGCGTTTGAGGAGC	CACACTTAAACATTAGCCCAATATCTG
chr1	TGCCATGGGTGCACAAGA	CGTCCTTCCTACTTCGTGAGTTTC
chr4	ACACCCTGGCCGTAACAAAA	CACGTGAGCTTCTGTCCCATT
chr1	CATCACTCCCTCTCATCAATGGAAT	CTCGGCGAGAGCAGATGAG
chr9	GCTAGGAATCCAGTCGATGTCC	GTCGTTAGGTTCTTATTGCACGG
chr7	ACTCACAGTAGAGAAAAGAGCACTTTC	GGTGTCTACCAAGGTTGTTTCGT
chr9	CAAATTTTACACCTGATTACTTGGTGTCT	TATGATGCTGCTTGGTTGGGAA
chr8	ATCCTACAGGAGCAGCAACGAC	CTCTGCCTTTCTTGTGCAAACT
chr1	GCTGCTGCTTTTTTCATGAGCTT	GAGAAGCTCATGAACCACATTGC
chr1	GCCATACAACCTCTCCTGCTTA	GCCCTGTAGAACTTCTCCCTCAT
chr3	GGCGAAGCTACTACGTCTTCAT	CCGAGTCATCATCATGGTCAGT
chr4	TATGTGGGTAGCTATGACATGAGCT	GGAGACGATCAGACGAGTACCTAC
chr7	TCTGGAGACTGGCATGGAGATT	CCCTTCGGTTCCTCTTAAATAGACA
chr3	GTTGTTTTGGTGGCTTGACGAT	GGTCCATCGAGATTGAGACCATG
chr8	TCGTGCATTAAACCTCGTCTGT	GGTGGTGCAGTTGGGAAGAAAC
chr2	CAGGCATGAATTCTACTTATGAACCTT	TCGTGCCTGACGTAACCTACTA
chr8	GCAAGATATAGCATGTGCACATTCTT	TCTGCACACATTTCAGGAAATTGAGA
chr1	GGCAACACTAAGCGCAATGT	CGGGTTTGAGCAAGATGAGCTT
chr6	CTCATCGTGCCTGAAGAAGAC	CTCCACGGAGACTAACAAGAAGCAG

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	TGGACCACATCTGCAACTTTCT	AGGGTCCTGCAGTTATTATGAATGG
chr1	GGGAGCGCTTGTATGGGA	CCTACAGCTAGCTGCGCATT
chr5	GATGTTTGGGTATAGCTTCAAACCTTACA	GTATCTCCTGCTAGTTCAAAAATTCAGC
chr6	CAGGGAACGGCCTATTTCCA	CTGGTTTTGTATTTAGTTGGAGCATAATAAGAG
chr6	GTTCAATACATTGAAAAGGCTGTTGAGT	TCCCTCCCGAAGTACGAACA
chr7	GTCCGTTCTCACATGCTGTTTAG	CCGAATTACCCATTGCCGTTTG
chr10	ACTCCAGCAGCCGCAATAA	CATCTAGAGGCGGTGCCTTA
chr3	TGTTTCATTTCTATTCCACGAAACCTAACT	CGGGTGAGAAATGGCGATGT
chr7	 AGCGTGATGACACGGTACC	GACACCAAGATCGCCATTTCC
chr2	TGTCATGGAAGAGACTGTGATTGC	GCAGGTTTATAAGCTTTAGAAGGTGCA
chr7	TGTCGGAGCTAGCGAAAGAGA	TTTATCGCGCACCCACATCT
chr8	CGCGCAGAGGAATTTCTCAG	GGTCAGCTGTCAATTGAAGTACTACTACTA
chr7	GGCAGTCCACCTTCAACT	GAGTACGCCGTGAACTCGT
chr8	GTTTCACATTTGTTGGCTAGGCA	TAAACAATGTTTTGCACTGTCTTATACACG
chr6	GGAGGTGCTCGTTCAGGTTG	GTTCTTTTCATCAGCAACAAAGGCTT
chr3	CCTTTGCTGCTGTCGAGTT	GGCGGACGATGTCTAGCT
chr8	CCTTCACTATTCATCTTCTCCCA	TGTCCTTGGGAGGGAGTGCC
chr7	TTTATGATGATTATGCCACACCAACTATGA	GGGTCACCTTCTCCATCGAAT
chr9	CCAACCTTTCTTCTTCCCTGG	AACCTATCCATGTTATTCGTAGCATTCTC
chr3	AGGGCTCCGATTGAACTTG	CAAGCAATTGTTGGTTACCTAGTGC
chr6	GGGACTTTTGCGAATAAACTATATCGC	ACAGGCTAGACCCACTTCTGTT
chr6	GCCAGTACTTCAAACATCTTAATGC	TAGCAGACCAAATCATTAGACTTGTTCC
chr7	TCAAACAATCAAAGCTTTATTTTTAGGTGGG	CGTCCACACTAAAGGAGAAATTACTGTG
chr9	GATGGAGGCACTGACATCGT	GCGCGTCGTGTAACCATGA
chr6	GCTTGTAGTGATCCTTGTTGTAGAGC	AGGGATATGCTATCTCCCGCAT
chr10	TTCATCAGATGTAATGTACCACCTT	TTGTCTTCTACTCCCTCAGTTCCA
chr7	TGCTTCTATGCTCTTCTCTGGAGT	TCTGTTTTGTTCTTTGTTGAAGTGGAAG
chr6	CTAGAAATCACAAACAGCGCCACAAGA	TTTTAGGGACTTTTCATTCAACAACCTGG
chr2	CCGAGCAGCTCGGAAAATGT	ACTATGTAGCTCCCTGGGTCTT
chr8	CAAATCCACTGCCACCTAGTT	CGCAACTCAAGTTTGGGTATTTCTTTTAT
chr4	GTACAGCGGAGTGCAATTGC	CGGACCATGGTGAAGGAC
chr7	TAGTCTGGTTGCGCTCGCG	CCACGACCATGCTCATATGATTG
chr2	GGAATGTGTCTAATTGTGTCCAACATTTT	AACCTAGTCGATAAAATGTTAGAGCACAAT
chr3	GTAGACACCTCGAGTGTACAC	CGTTCCAAGACTCCTCCCT

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	CCTACCTCATCCCTGCTTGAGA	GGGTAGTACGGAAGAAGGAACC
chr2	AGGTCTGACCGTTTCGTCTCT	CGACCGCACCAGTAAGCTT
chr3	CATGGAGTTGCCGTCGACT	GATCGAGCTGAGGCTAGCTC
chr7	CATAGAGAGCGCACAAAATAGAAGC	CCTCCTCCTGCTAACTGATGG
chr6	GTTCTTCTTTTGTTCAGTGATGACACA	CTTTGAGATGATGCATATTTAAGCTGGAAG
chr7	GTCCATGTCTTTGAGTTATGTATCACCT	CCCAACATACCTCTTTTCACAAGAATAAAG
chr7	CCGCTGATGCATCTCTCCTT	TGGCGATGAGGTCTGAGAGA
chr2	CTCGTCAGCAGACGAGGCAAG	CCCGCATTCGATGGCATTG
chr8	CTAGGCACCCTCCAATCCAAG	TACCAATTTATTCACCAGATAAGCTCAAT
chr6	GGAGATGGAAATGAAACTTTTTCAGAAGT	CTCAAGGTCCAAGCACTAAGTTGTAA
chr7	TAGTCGCCTCCGTCATGGC	TACGTGGCGCAGAACCTCG
chr2	ACCACTTGAGCATCAATCAAGATCA	GCAAGGAAGAGTACAACCTCGGTG
chr9	CTTGGCCCTCATGGAGACA	AGTGACCAACAAGACCACAGATG
chr3	TCTAACTGGTCTGAGAGTCTAAATCTCC	GAAGTGTCTATGCATCTCTTTAGAAGCAA
chr10	CCTTCGGCGATGAAGTCGAT	CGATCAAGGCGTGCTCTGTT
chr5	ATGTTGCCATGTTCTAGGCGA	TGTGCAAATTGGAGATAGTGCCA
chr7	AAACCGAACAATTGATGAGCTGC	TGTCTAGAGAGAGGAAGGCAACAA
chr8	GGCAGCTGTAGATATTGGTGTCA	GCTTGCACATCAATGTATGTTATAAAGCTA
chr9	AATTCTCCGTAGGCTGTTCAC	GAGCTCCTTCGGTGCTGAT
chr10	GGTGTGCAATTACTCTCCAAAC	GTTTCAGAAGACGGATTTTACATGTCAC
chr7	AAGGGAAGGAACAAGGCATCTAATTT	GTTCTTCAAATGACAGTCACACGTT
chr4	CATGACCTCACATTGTTCAATTGTATGG	TCATGGTGACCGGTTCAATCTTG
chr2	AATTTTCTCTAAACGTGAAACAAGGAAAGG	GGGCCATCTCCCGAATGTG
chr10	GCTGGTAGCTCGCCAGAAATAT	TTCTCTGGCGATGTTCTTGAAG
chr4	CAAAGTCCTCAGGCTTGGTTCT	ACACATGGCAACATAATTGACCAAAG
chr4	TCTTTTCAGGGTGTATCAGCTGC	CGTACTGAAGCGGAACCCA
chr2	CAATGTGAAATTCTGGCTCCACAA	CGAAAAATAGAGTGAGAGGACCAGAGAA
chr10	GGGCTTTGGCTGCACTGATA	CGGAGATCGACGAGTTCTGGA
chr9	TGGTTGTGTCGATAGGTTAAGGC	GGATGCCAATTTCTCGATCCCA
chr3	GCACCAACAGGCTATTTGCTTC	CCCTGCACAAAAGAACAAGTGTT
chr2	GGAAACTGATGTTTTGCCTGGAT	CCTCGGTACAAGAATTTTGTGTAATCG
chr8	TTTTTCTTCTTCCCTTTTGCAGT	GGTTAATTACCATGTATCTTGGACCATATGA
chr10	TGTTGCATCTCAGGCGACAT	GCGTCGGATAACATTTTAAATCCATCTGA
chr2	GAAAAATCTATTTGGTTGTTACAGACAGCA	CAATTCTAGGGCCTTCTTCCCAATTATAA

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	CCACATTTGTCGCCACCAAC	GGAGAAATTGCCAATACATATAGATAGGTGTC
chr3	CCCATTTCTCCTCCTTGCGATTT	GTAAGTGGAGATCGATTTTTTGTGTGCTC
chr7	AAAATACTGAGATTGTGTTATGTGGAGACA	GTACTGGGCATCACATCCTGTT
chr7	TCTGCAATCATACCAACTTTAGCATACA	AAAACATTGGGAGTCGTCCTCAAT
chr9	CAGGATGAACATCGCCATGACT	CGCAGTCCTGTACCAGAAGAG
chr5	CCCTTCTCAGGTTTCGCGT	ACCACAAGTGAAGATCAGCGTC
chr4	CTCCATTAAATTCCAACGAATGTGAGTT	TGTAGTGGGCGTTTCTTATCGG
chr7	ACTGATTATGGTGTGACAGTAAATCTATTCTG	TGTCGTACTGGGAGGAGACTG
chr8	AGATGTAGAGAGTGGTGCTGCT	CTGATGAGGCTCAGACGACTC
chr3	ATCTGCCATGCCATGAGGAG	AGATGGACAACCTCATCCCTCACA
chr7	CCCTCTTCATATGCGCACTTCA	GAAGTATGCCTTCAAGCTTGTG
chr9	TCCATTGCGAGGAAGAAGCTG	GTCCCAAGCCGCTCAAACCT
chr6	CCCTACAAGGAACCATTTGGAC	CCTTTCATCGTAAAGTCTATTGTGAGGC
chr8	GCTCCGCTTTTGTTCATCAC	AGTTGGTTTTTACACTATCCATAGGC
chr8	CCACTGGTAGAGCTGCCAATAG	CCAAGTATCAGCCTCTTTCCGATG
chr4	GCTCCACAAAGATCCAAGCCAT	GCATGATGCTTGATCAACCACAGA
chr1	TTAGATCTCAGTTGCTTAGAAATGTGTGAG	ACACAATAAATTCTGAAGTGGATGTGGAT
chr2	AAAATGTGTAAAGGTTAGAGGGTTATGAAGA	CAGAGGCAATGGTTATTGACCAC
chr5	TTTGTGTGAACCTTTGGACAAGTTTCCC	TTCACATTGGAGAGTTGAGACTGTG
chr4	TACCGATTGGAAATTAATTCGGTACGT	GTGTACAAGTATGGAGTGTAGGAGATTG
chr8	GGTACAGGAACTGCGCAAAG	GAGCTGATGGACCCGGAAG
chr7	ATCCAGGTCAATAGCCTCCTCA	TGAAGGTCCATCCGTATCTGCT
chr7	GCTGACGCACCAGCATTTCT	GCGGCAGCAGTGAGTTCA
chr3	GCTCACCTTTGGGCTGAT	TCGGTTGGTTGCTTCCGTT
chr4	CCTATCAGATGATCTAGACGCACCAT	GCGGTTTGGGCATGTAGGAT
chr1	CATAGACGATGCTCTAGGTTTGTGTAGAC	ACTTATACGTAAAGTACCAAAGGATAATCAAAT
chr3	TGGAGCTAAGGGCGTTTAAACAT	TACGAAGACATTTCAACTGACATGTGT
chr5	GGTCTGGTCTATGCAAATACTAGTAGTAAAATT	CCAAGGACAACCTTCCTCGGC
chr3	ATATTCTTACTCCCAAACAAGCCCTTAC	CCTAGTTTGTAGTGTTCGCTTCA
chr3	GCGGCTCAGCCACGATAT	GCTATACTTCAGATGTTCTTACCGTGA
chr4	GGCTTTAATAAGAATTGCACCAGACAAC	GCAGTTCTGGAGGAAAGGAGTTC
chr2	ACTCCTTCTCCGGAACAAGAT	GCACGGCATATCAAGCATGCTA
chr3	ACAAATGCTTTGACTGATTTGTATGTTGG	TTCTTCTAAATCGAACTACACAATCTGCA
chr3	CCTGGCTTGGAGAAGAGTGATG	ACATTGGGAATCCAGAAGACACTAAC

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	TCCTTATGGCTCCTTCCTAGGAAG	CTCCCAAGCCTCTTTATCGGTTT
chr2	AAAAGAAAAGTGTGCTCAGAGCTA	TTGCACTTGGGAGGACAAACAT
chr2	ATGAGATCAGAACATGCAATGTTGC	TGGTCAGTATGGCAGCAAATTGT
chr5	CCATGTCCTGCGACACGAA	TACGTTATCGTCGCGGACATG
chr1	GTGTCACCTAATGGTTAGAGGGACAA	GTTTTAGGGCCAATGGCCATTATAG
chr4	CACCAGCTCTACACCAAGGAAT	CGTCGCCTTCTCCGTAGAAC
chr5	GGTTCGATGGTGCCTAGACTTG	GTTCTAGCTTGTAGGAGTTCAATCACA
chr5	CATGTGACAGCCAGACAGGTT	TCCTCTGGTTCTCTGATGATGGAT
chr5	GGGACATCGTCTTCGGTGAG	CGGACGTCTCCAAGAGGTC
chr2	GCCCAGAAACAGCGTGGTT	GAGGTGTGGTTCACCTAACATAAAACG
chr3	GAAATCAAACTCAAGGCACAGGTAAC	TCACCCATGAAAGATGAATATTCATTTGGA
chr3	GTAAAAATCAAATACCTCAGGAGCCATGTA	CAAAGAAAATAGTGCACCGTGATGT
chr5	GGTATCATAAGCAGCCATAGAAGTACC	CGGCTTCACAGTGGAAGAGTTC
chr3	ATAGAGAATAATCATGTGCTCCCAAGC	GAAAGCGGCTAGCATACTTTTTGT
chr4	AATGAATGAAATTGGCATGCTCGAG	ATTTAGAAGCCAAAATCCTTTCTCAGGATAT
chr3	GGCCAGCCTCCAAATAAGAAT	CAGAGCATGGAACACATTTTCAAG
chr4	CGAGTTGAGCAATGCGGTCT	AAGCAGAACCGAGAGCATCTC
chr2	TCTCTCCTCGGTTAGACGACTATG	CTCTTCATCCGGGTGGGTC
chr1	CAGAATAATTACCCACAGCTGAGC	AACCTGTGCCGTGCTTATCTAC
chr2	GATTGTGACCGCTCAAGCC	TTCCGGTGCGGGAGGGAGTA
chr4	AGGACAAGAAAAATTAAGAGAAGATAAGGACG	TTTACGATCCTGCACTCATGTTTCT
chr2	GGGAGGTCACCAGATAGCTGAT	CGCCCAAAGAGCTCAAGTTTCT
chr1	ACTGATAGGGTATACAGTGGTAAGTGG	TGTTGGAGAAATAATCGATTACACCTAC
chr1	ATCAGGACGGAGATCAAGCCAA	TCGTGGGCATATTTAGGTAGATTTTACG
chr1	GTAGACTAGATAATGTTCTGGGTTGTTGT	GAAGGAATTGCACTGCCACAT
chr1	GAAGTCTGAAAGAGATAATGCCAGTACT	TGATCTTCCAGCAACCTGTGAAAT
chr1	ACTGACAGATTAAGGCCAAATCCTT	ACACATTCTTATGCTCATAGCCTCTTTT
chr1	GGCTCATCCCTCATCATCTGG	TGCAGAAATTCTAAAGACTAGAAGAAAGGAAAT
chr1	GTTGGCTCCAATCGATTAGCCT	GAGGCCTGACACTAGCAAAGAA
chr1	TGGTGGCATGCTTTGAGCTAAA	CCAGTGCATGTCAGTAATACTAGGTTTAT
chr1	TGAGGACTGTCCACAACAAGTG	GTATCATATGAATCCTGGAAAAGTAGGCA
chr1	AAGCACTTACAAAGAGCTCGCT	GCCTGGTGTATATTGATGTCTCTGTTG
chr7	CAAACAGAACCGTCCCTTCCA	GGGAAGTTGGAGCGTGAGAAAA
chr4	GTGGTGAGCTGGAACACCTT	ATGCGCACAGCATCCAAGCA

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	GGTGAGGTGAGCATTTGGACT	GCAATCCTTGTGGAATGTACATTATCC
chr1	TGACAATGTCTACAACCTCTGCAAGAT	CTTGACTGCAAGATCACCATTGAC
chr7	TCCTTAGGAGCGTCCACGT	AGCGCATCATGAAGCCCTT
chr3	CCTGTCAAAGGTGGCCACTT	CTCGAGGAGGTGGAAGGACA
chr10	CATTGTTTTCGGTCAAGGAGGGTA	GTCTCTTAGCACATCAAACACGGA
chr6	GCTTGTCCACTTCTCCTTGTAGT	AGACAGGCTGTATTGAAATCACAGAATAA
chr2	GATCCACCAGATACAAGGTCTCC	ATAGCTTTGATGCTTCATAGAGCACA
chr4	GTCTTGACATGCTTGCTCTCAT	AGTTTCACTTTGCTCAATTAGGAACAATG
chr5	TCTCTATCCAATCTGGTGGTTCTGA	AGGCATATGTTTATTTCTGCTTTGCAATAC
chr2	GAGATCTGGAGAATACGAGATCTGAC	AGCACTTGACTGAGTTTGTTCGTTAT
chr9	CGTACCGAAAGGTGACACG	GGCGCACAACCGTATTTCTTG
chr2	CAAAGAACGCTTCCTCCTCCAT	CCAGGGCTCTGAGATGTGTTTA
chr9	AGAAACATGGTTCTATGAGTGATATCTGGA	CACAGAATTCTGGTGAAAACCTGATCC
chr4	CAGAACTGGTAGCCCTTGCT	CCGAGAGAGGATCCGTCGTAG
chr4	CCCATCTTCATCAAGCCCATG	TACTTCCGGCAGAAATGAATCGG
chr4	TGTGTGAACTCATGCAGGATGT	CTCCTCCTATAAGTCTGTGGAGTTTG
chr7	ACGAGTTCCTAGGTTTAGTGTTTCA	ATAGTGACTAAGAAAAGGACCCGATAGAT
chr1	CCTAAGTAACAAAAGTGCAAGGTAGGT	GCTTCTGTACCCATGCATGGTAAA
chr2	TCAATTTTCATGTATGTTGTGTATCGCAC	TAACATCTGGACATGCGATCAGTG
chr10	GAGGACTGAAGACGAGCTCAT	ATCTCCTATCTCCCTCACAGCTTT
chr10	GGGAGTGGGAGCTTCTGCTA	CCTTCCCTGCTCTGAGGAC
chr4	GGCCCTGTTTGTGCATAAACATCT	CCTCCCTCGCCCTTTTGTTT
chr2	TGCACTACTTACATGTTGAGATCAACAA	GCAGGTCCTAGCCTTTGACAG
chr1	CTCTTTCCGTGTCATAGGTCGTT	CAGACTTCCATATCTCAATATTTGCGGT
chr10	CGAGCACCCATGATACTTGC	CTCCGTTCCTTAATTTGGGATTTCTAT
chr8	TCTACCGTATATCGCGAGATCTATGG	CATTCGACCATCCATCTAGATTTGGAT
chr8	CCACGAGCAATCCTTAGGTCA	CGTGAAGCCTGGGACCAAG
chr10	AGAGAGGATGCTTGTATTTGTGTATGAATC	CCGTGTGGACCAAATCAAAACAC
chr7	 GGCTGGTTCGTAGCAAAGCAT	CCTCAAATCAGGGCGATGACT
chr5	GAGACCGGGTGGTTGTAAC	CGTGTTTGAACCATCTCTGATACTG
chr2	TACCTGAAGTTCAGAACTCCCTGAA	GGTGAACCTTGATACTTAATAGTGGCCAA
chr10	ACAAAAGGGTTATCTTGGTATATGCTACG	GTGCTCTTCTTATCAGAGTCTTTATGATTCTTA
chr2	GAGGAGAAGCAGCTCATCGA	GCCCTCGGTCAGGTTCTTC
chr10	TGAAATGAACTCTCCATGCGACATA	CCCAGGCATAGGAAATCCAAC

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	GGAGTGA CTGGATGAGATGGG	GCTCAAGCAGAATGGCATCG
chr3	TAAAGAGGGAAGGTTAGAAGCATTTAAAAGG	CCTTTACCTTCGCATTTGTTGCTAC
chr9	CGACATCGACCAGGATGAGC	GCTGTTACTACCTGAGGACTAGTCG
chr9	AAAAATAAACCGAACATATGAAATGAGGCA	TGTATGGTGTGCGATGCCCTACTTA
chr5	TGACATCTGAGGAGGAGTCATCTG	CCTCCAGCCCTATGCTTCAAAG
chr9	ACTTTAGTTTGTATCCTTTTCTTTCTCCTTGA	GGTTAATGGGCCTCCTTCGAG
chr1	ACATGGTTTCATATATGATTGAACAGTGAT	AGTCACCTTGCTCTGATGAACTTG
chr8	CTCAAAATGGCCTAAAGTACCTCGT	GTTGCCACATAAACATATAAGGTTGTGG
chr7	CAACGTCTCCATCCACTCGA	TGTTACTGGTGCCCATCATGG
chr10	GCATGCTTCCAAAGCTTCCA	TCCAATTCCCAGTCTTCCCGTA
chr10	TGTGAGCAATCACCTATGGCAA	ATTGCCCAGGGTGAGCATT
chr5	TCTGTTCTTGGACCACGCC	GGCGACTTGACGATGCAAGA
chr7	GTACCAGCAGGGCAACCTC	GGCATGATTGATTAAATGATTATGATAGGGACC
chr4	GCACTGTTTCTGGATCAAGATGC	CAAAGGCAACTTTAATGAGTACTTAGGGAT
chr5	CCCTGCGATCTCTCATATCCCA	GTTTCAGAATGGAAGTTTGAGAAGGATG
chr3	GCTCCCGAATTCACCACCT	GGCAAGAACCAGTGGTAGTAGAG
chr8	GAACTCTACAGGCCTAACAGCA	TCCCTCCACAATCATGAGATTAACTG
chr3	TCTCGCCTGACATCTGAATTAAAATGAT	GGTACCCAAAAGCTGGTTATGCA
chr10	GGATCCATCAGCCGCTTGT	CTGCATGGTACGCTTTCCG
chr6	CATGTAGTTTTCATCTACATGTCAATATAACCT	AACTTATGAACATTTATCAGTTCCACTTACAAC
chr2	AGGAAAGCAAGAGGATTTTCTTTTGAGA	GAAGAGTGACTATTAATAGAAATGGGTCCAA
chr5	GGGTAGGTAAAGGAGGGTCTT	TGGTATCTGGAGAACTGGAGAGG
chr2	CCTTCTGCAGCAGTCTACCA	CATGGATCGATGCTCGCCTATAG
chr5	GACCGTCGGGATACGTAGG	TAAGATCGTCGATGAAATCGCTCC
chr8	AGAAAAATCTGAATTTCTTATCCTCTTCCTGG	AACGGCGTGGCTAGGAGTG
chr8	CTCAAGAGAAGTGCTATAGGAAACATCA	TTAAGGGCATGGAATCTTCCAGATG
chr10	GAGCAGGCACATGCTAGTTG	CAAGCGTCGATAGCGCAT
chr8	TCATGTGTTGTGTAAAACTGGACGT	CGGTACCTGCAACACAATCCA
chr4	ATGCTCATCAGTCCAACTAATAGGAATA	TGTTCTTCGCAACGGACTC
chr7	CAACTCTCAAGCGACCCATCA	CCTCCTCATCATCATCGTTCCG
chr5	CGCTCTCCTAGCTCCGATGA	GTCGCACGTCGCTAGCTAT
chr6	CCCTCGAGCAAGCCAAAATTTT	GCTGTCACAAAGTGAGGCC
chr10	CTACACACTTTAACAAATACTTCAAAGGAAGG	TCCATCCATCGTAAGGGTAGGG
chr3	AACACAAGAAAATGTTCTGTACTTGAATC	GTATATGTTGGACTTCCTGCCTGAA

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	TGTTGCACCTTTGACAACGTAAAC	CATGAAGCTACCAAGCACACATC
chr1	CCATAGGTGGGCGTGAGAA	CCACCACCCACCACATCTA
chr10	TTCAAAGAGCCCAAAAGGCTAAGGAGAA	ACTCTTCACTGCCACCAAGAAG
chr4	ACCAGAACCAAACTCCGGTT	AGAAATTGAAGGGCTCCCAGC
chr10	CACTGTTTGTCTCACTAGAGGCAA	GCATTGACAGTGGATGGAGGAA
chr4	AAGTTGAGCAAGCAAACACTTCTG	TTCTGTGATAGAAACCTACCAATATTTGCA
chr3	CTGTAGTGCCGTGACACGA	GGACCACTAGGGCCAGTTG
chr10	GTTGTGGGCTTGGTTTTTTGAGG	AGTTTTGACAGAGATACGAGCCAAA
chr4	GTAGCGTCGGTTAGATTTGGACT	ACTTTTAATCATGACCGTGCATCTACT
chr9	CTCCGTTTCCCTCGTGACAA	TAACGTCGGTGAGAGGTTGGA
chr10	AGATGCACCTCCAAGATCCCTA	CCCACCGTCTGTCCACTATAAGAA
chr3	GCTCATTTTCACTCCTTTTGGAGGA	TGCATTGAGAGCTAGCCAATGAA
chr10	TGGCTACAAGTAGAAAGGAGTGAGA	TTTCTGCACCATAACAGAAGCCA
chr7	GTGACATGGAGCCACACGAG	AGTTGTGGTGGTGTATAAAGCAGTC
chr5	AAGCAAGTCGTTTCGTCACCATA	CCTAAAGACAATACCATAGGCAATGAAGTA
chr4	AGATGGGTCCTAGGGCCAT	CCCGACAACGTATATGGTACATGTATAC
chr9	GTTCTCGTCCGTAAGCTCGATC	TGTCGTCGCCCTGTTTTGTA
chr7	CGAGCTCTGGTCCTCTCCA	AGCAGCTCAAGGAGATTGCC
chr5	TGTGCTGCACAATCTGTTGC	AGGGAGTGGATGCGTTGAAC
chr1	GAGCATCGTGGCCACTTCT	GTCTTATCGCTAGAGGAGAGAGAGA
chr3	GGAAAGAAATGGATGCATATTGATACCC	TAACCGATACTTGCTGAAGAGAGA
chr7	GGGAAGCAACTTCGGGCTT	GCTGCATCTCTAGGTACATAAGGC
chr8	GCTATAGCTATGCAGATGCAGCA	 CAGCTATTTCTTTGTGGGTTTGCA
chr1	TAACAGCCTGCACTATCAGCTTG	AAAATGGTCTCCAGCTGCAGTAT
chr1	CGATTTGCATTGCCCTCCTCT	GTGGAGGGAGAACCGGGTTG
chr7	CATCCAAACCATCTGGTTACAATG	TCTTCAAAAACCTTCCAAAGCACCTAAGATAT
chr4	CGGCGACTCACCGGTTATTT	TACAAAACACAGTCAATGGATTGTCCA
chr3	GAACAAGATCCTCAGCTGGCA	GCTGAGGAAGATTTGCTCAACG
chr4	TTCACTCGATTTAGATTCCAATTTCCGT	CGAACCGAATCGGGATTCAAG
chr7	CTCGCTTTTCAGTTTGTGTGGTT	GAACCTACCTCTTCCATGAGAAGCA
chr3	CTGCAGACTTAAGCCTTAGTGAGTATATTC	AACTAAGTGCTGGATTCTTGGAAAC
chr2	TCAACTATATGGTGTCTCATTCGCTC	GATGTGCCTCTAGGGAGGC
chr5	GGGAAGGCATCCAGCCTTT	TGTAGCTCATTTTGGCCAAGAACAT
chr3	TCAACTTTGCTGTCCCTGGTATAATT	CTTCAGGGTCAACCTTGCTTAG

表 A.2 (续)

染色体	正向引物(从 5'端 到 3'端)	反向引物(从 5'端 到 3'端)
chr2	CCTCGACGTAGCCGATCTG	GTCAGCTTCGACGGCAACGA
chr2	TGCTTCCTTCACAACTCGCT	TTGCTCTCAACGTGAAGAAAGGT
chr4	CTCCACAAAGTTGTAGTCTGTTACCA	TTTTAAGATTATTGTTTTCTTTGTGCGGA
chr3	GCATCACCCGACATAGTTGTGG	CCATGTGTTTTCTGGACCAGAT
chr2	GGGTTGATGTCAGACGAGGT	TCAACACAGATTGGAGCGTATATGTT
chr3	CGGAGTAGTACTGCGGGAGT	GCTTGATGGCTTACCACGGATTAT
chr3	GTATAAAAGCGCGTGCATGTGA	ATGCACGCTGGAAAAGGAACAGT
chr3	GCAGGTATGTTCTGCATGAGTCT	CCTATAGCTACATGTGTGCATGCAAA
chr3	ATGGAGCAGCGAGTAGAAGAAGT	GTAGATCAGTTGCAACAAAGCAGAATATT
chr5	CAATACTTTGAGTGGGTTTGAAGCAG	TATCCCGACACCTGTGTCTCTC
chr3	CTACAATCATGTGGTCCGCG	CTAAGGACCAGGGCAAGAGGTG
chr5	CTAGTTGTTGGAGTGTTCCCATTG	TGTTAAAAAGATCAAAGTCAGTAATATGGCAAC
chr3	GGTTGCTCCTCATTCATGCAA	CTCTTTTGGAGTTTTGTCTTAGAGCCATA
chr4	TGCCAGCTCCGACACTCAG	GCGTAGAGGAAGAGCGAGTC
chr3	TCATACCTTCAGATGGAAAGCAACA	CCAGTTTGTGTGTGACAGATCAAG
chr2	TAAGATCCATGCAGCTGGTTTTTCA	CAGCATCGGATTATTGTGGCAT
chr1	GTGCTTAATCCACATGTAGTGAAAGATG	TCATTGTGATAGCTCAGTTAGATCCCA
chr1	TGAATCTAACCAAGTTCAAGTCAACAGA	CTCAATAGGTTTCTGTCTTGTGGTGAT
chr1	TCTGATTCGAATACACAAAGCACCT	GTGAACTAGGCTTGCAATTGAAACC
chr1	GATGCATTCCGCGTGGTG	TCTGCAGCTTGTACATGACATCTC
chr1	CCTGGACTGTGACTGTGCGAA	TGGTCTTCAGAAAGATTGCTGATCAC
chr1	AACTGAAGACGACTTCTACGGAGATA	GTCCAACCATTTCTGTGCTACA
chr1	GGATCCTGTAATATTGGATCCTGCTT	TGTCCATCTGCAGTTGAAGAACC
chr1	GGTCTCCTGTGCCCTGAAAAAG	TTAATCCCATATAGGCATAGAGTAGTGCA
chr1	GGAATCTGCCAATGGTAACAGCT	TCAACCAAATACTCATGGGTGCAA
chr1	GCACGTGCCTTTCTTTTAGGAA	AGTGTCTCACCGCTTTAAACGT
chr1	TATCTTGTTAAGCTTTTTTACGACTCCACTT	TTTCAAGTAAAGCCTGGAGGAATGTC
chr1	GAGTCACTCTGCAACCTCACTT	TTGTTCTCAGACACGTCGAACA
chr1	ATGTCCAGAAGAGGGAAGGTGTA	AAGAGGAATCTCCTGCCATTAGTTTTTC
chr1	CCAATGTGAAGCTCAACAATGACA	CACCACCTTGCTAGTCACCT
chr1	GCTTCCTCTGCTTCAGAGGATC	GAAAGAATGTACCCGGTACATCGT
chr1	ACCAACCATTCGAGGCTCAT	GCAGACTGGAGCAGCTAAGAG
chr1	AGAGACGACGAGGCTATGGTTTA	CCCAATCATTTGCTGGGTGATGA
chr1	GGCATTTGGTTCAACAGGAAGGT	CCCTTGTTAAGACCATCCTCATCAT

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	CGTTCCTTCCAGTTAGCAGCTA	GGCAAGCTCTGGTACTCATCAC
chr1	GCATCAACCGTCAGCAAGATC	CAATGTGAGTAGGCACACCTGTA
chr1	GCTTTCCATGGCTTCTCAGCAT	CAACTGCATGGTCGATCTCCTT
chr1	CGGCAGTCCACAAGAGTTACAG	TAGGTAAGGATCGGACTAGATGAAGC
chr1	AACTTGAACTAACAGAACCATGTCGA	TTTGTACCTTCAACCATAGCTCAT
chr1	CTAAACATGCTTAACACCTAGACTACCAA	CGACTCAGGGTTGTCCTTCTG
chr1	AAGCCAGAAGGCAATATCACGT	CCAGGTGTTTGTCTGTCCATGTAA
chr1	CTGAGGTGATTCTTGTGCGCTTA	GCTTCTTACTGGATTGAAATACGGGT
chr1	CGATTAGGGCCTAAGCTTGGTT	ACAAAGACCATGTTTCAGGAAAAGGT
chr1	GGATTGGATGCCTATGCCCT	CTGGTCCGGTTAGCTAACGG
chr1	GGGTCACGAATCGTTGATGCATA	GGTTGGGTCATCAACCATGTCAT
chr1	AAGTATATAAGTCTCTTATGTGGTTACACCAGA	TGAGGCAGTCGAAGGTTGC
chr1	CAAATCTGGGACTGATGAGCGTA	CATCAGTTTTATGGTCTGAGGAGCTT
chr1	TACCACAGGCCATTCAGGAATTCTG	GATGATTGGTTTTGTCTTCGTCGC
chr2	GGAACAGATCAGTCGGTGACTT	GCTGGCAGACAGTCCGATTA
chr2	GTTACCTCTGGAACCATCTTTCCCT	CCGAGGATCTTTTTTGGGCATCA
chr2	TGGGCTTTGCAGTATGCAGA	GACCGAGTCTTCATTTGGTGTGA
chr2	GATCACTTGCAGCGGATGAAAC	TGATATCGGCGTACACGTGTTAC
chr2	TCGGTGATGTGTGGTTTAGATCG	GGTCAATTTTCATAACATTTTGGGCCT
chr2	AGATCGACTGATGTCAAGTTCATGG	GGAGAATCTTCTAATGCTGGTGGTT
chr2	GTTGACATCAATAGATGAAGAAGGGCA	CCATCGCATACCCTGTGATCAAAT
chr2	GAGGGTTGGAGCAGTGTAACAT	CCATTGTTCCATCATACCATGTTTCACTA
chr2	GTCCACCACAACCACACGGTAA	GCTGCTGCTTGTGTTGCTGATAA
chr2	CAAGAGTAGATGGAGCCAATGAACA	CCAAGGAAGTCCATTGTCATGTATG
chr2	AATCTGCTTTGGTGCTTCCTATCTT	GCCCTCTTCCTCGACAGGTAAT
chr2	GCTAGCAAGGCTAAACACCTG	CCTCGACAAAAACTTTGACAACTAAAGG
chr3	CCGCGTTGGGATTCTCCA	ACGCCACCGGTTGTAACT
chr3	GATGGGTTTGGACGTTTGAACC	ACATTGGTTGTCAAGCCCTTACA
chr3	GGCCCATCTGAGAATTCTAAGGC	TCCTCGAACGTCTAGAAGCTTCA
chr3	CAAAAGTCGGCATGATCACCAA	GGAGCATTTTCATTTGCCAGTGTAATT
chr3	GGGTACTTAAGGACATTTATGTCGC	TGTCTTGTCTCTTGCATATTTACATTACTT
chr3	ACTTAGCCCTAGGTCCTGCC	CCAGTACGAGATCGCCGTG
chr3	TCATTGTCCAATTGTTGTGGTTGTG	CCCAGAAACCAAATATGAATATATGCAGC
chr3	GGCATTTTTGAGCATAACCAGTTTGT	CACATGCCAAGTGTGAGCAA

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	TGATCAAGATTCCTTGTCAGCAACA	AAGGTAACAGGGAGGGAAAGGTA
chr3	TCCATCTGTAGGTTGGGACCAA	CGGCTTCAGGGATGAGGTAAAA
chr3	TCTGATTTAGTAACCGACCCATAAACTG	CTACCTAGTTTTTCTGACCAACTTGTG
chr3	TGGTCTTCCATGGTTTGTGCTAC	CTCACAAGCTTGGAAGAGGCAA
chr3	GTGGCCCAACAAGCTAGAAAGAC	TGCAGAAGTTACTGCTGCCTTT
chr3	GAAATCGGTCGCGCAATGATTA	TACCTAGCTTTGCATCGCCATT
chr3	TGTGCCAAGCTACTTGAGCC	AGACCAGATTTAGGATTTGGAGTTTTAGG
chr4	CAGCTCAGAAGTTACCTTGTCAGA	GGCAGTAAACACTGGGATGCTT
chr4	TCAGTCATAATTGGTGCAAGCTGA	ACTTGAAACTGTTGCCAGTGACT
chr4	GCACCGGGTACTTCTGAAGAAC	CTTTGGGAACCAAAACCAGACAAG
chr4	GCCCACCAAATTTTGATAACTGGA	AAAAATGTCACAGGAACCTGTGG
chr4	GCACTGTTCAATGTGGTGACCTT	TGCTGAGCTGAAGAGTTAAGGAAAA
chr4	CCCAAGGGATGTTGTGGTCTTC	TCCAAATTGGGACACCTTGTTACC
chr4	GGTCCACAGTCCACACACAAAA	ACGTTTCCAGGACCTCTCTGAA
chr4	TTCCACGCCACCAGTATACAATTT	GAGGTGGCACTTTTATCCAAAGC
chr4	GGTAGCCGTAGATGTCCATGAC	GAGCTCGATCATCATCAGGAACATC
chr4	TTGCAGCTATCTCTTGGAAGAAC	CAAAAACAAAAAGCCAAGGAGCTACTA
chr4	TTGCAGAACAGGAACCTGAGAAGC	AATACCTCACCCGTTTGAAGTCATT
chr5	CCTTCTCTGCACACGCTAGT	TACTTCTGATTCTGACTCTGCAGGT
chr5	CTTTTTCTGCAACTCCTCAATGTGAG	TCTCAGTTCTCTCAGTAGTTTTGTGTC
chr5	ACCAAATATGCTGACACTGATGTCA	GTTACTGTGGTTTCGTCCGAAT
chr5	AAAGTTTCTTCAGCATTTTGCCCAA	AAGCCTAGAGAACTGAGATTTGAGTTC
chr5	ATGGCGAAAAGACGGAGCAGAATG	GGGTATGGAGACACTGATAAGGCT
chr5	CCCTCACTAGCCGACAGAT	CAATGGTGGCTCTGATGAAAGAGTA
chr5	TCACTTGATTTTTAACACTCCGCATCAT	TGGAAAGCTATGTTATGATGTGAACTGTC
chr5	GGAGCTTCCTTCTGTGCTTGAA	AATAAGCCTGGTACCTTCAAACAGAG
chr5	GGTTTTGATGATTATTCGACTAGCAAATGA	AATGGCATATATACAGGCGTCACTATTTT
chr5	CCACCATCAACAGCTTCTCACA	GCTAGATTGATCCAGCTTTCCTTCT
chr5	GCTGCTCGTCACGGTAACTAAG	ATAGTCTAACAGATCTCCTACACGCTT
chr5	TATATAGGGATGCATCATGCACGGAT	AAATTGCTGTTACTGTGAAATATGCCATT
chr5	TATGTCCTGCACTTAATCGTAATCGTAAGG	CAAGGATGGCTCGGTTCGTA
chr5	CTCCAAGATGACCGCAACAACA	TCTCAAACGTAGGATCGAAATTTCTTCAT
chr5	CAGTCATGGCAGACCCAAGTAA	AGCTTGTTTACACGCAACAAATTATGAA
chr6	AAGACAAGGTGGTGGGAATTTCA	GACGAGTTGTATTAACATTTCGATTGGATTG

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	ATGTTTTTGTTCCTGCTACTGCAAC	TGTAAAGGGCACCAATTAAGTATCAAGT
chr6	GGCATTCTCCATAACCGGTCAT	AGAAGACATACCACCAAAAGAACCTTC
chr6	TTTTGATAGGCACTCATCAAGGAACA	GGCCAAGGAGATCAACTATAGCT
chr6	AGGCATGTTCCAACCTTACGGTT	CGCCGATCAACTTGTTCATCTTT
chr6	CACATTACTGGGACCACCAGAT	CATCTGATTTAGTGCTGCTCATTTAAGTAA
chr6	GCGACCAGATGATGGTGTCAAG	CGCAAGCAAACCGTAAAGTTCAA
chr6	GCTGCAGATGATCATCACCAAATG	CTCCTGTATTTCTGATGGCAGACA
chr6	TGATGCTAAGCACTATGATTCTAAAATGCA	AGAAGACTCCCAGCCTACCATAT
chr6	ATTGTACATGGCAATATGCCCTCTT	TTTAATCCACCCTCAGCGTGAA
chr6	CCGGTCGTTTTCACTTGACATC	GAGACGGCTAGGTAGAAGACGA
chr6	CAGATTTGAGATGTGAATTTGCTGTGA	CTTCAGCAAGGACCCTCTTCTT
chr6	CGAGGTACTACCTTGTCCAAGCT	CATATGATTAACCAAGTGTCACTGATTGC
chr6	CCGCCATTTGCTTCTCCTACTC	TTTGTACTAGTCTTGAGACATAAGCAAGAC
chr6	GACCGACGTACCATTTGGAGTT	TCCATCTCCTTGATAGCCCAGTT
chr6	AACTATAATTTTTGAAATAGAGCCCTCCCAA	GAGTCATGGTAGACACAATATGTTAGGG
chr6	CTGGATACCAACTGAGAATGAGTAAAGG	TCTGAAGTTGGTAGTGAGTTAATTTGCAT
chr6	CAACCCAAATCTTTCCGAAAGATAGC	GGTCGGTGGAGGCAGTATTTAG
chr7	GCAAAACATGCAGTTGCTGAGT	GATCTTGGAACAGATGCGGAAATC
chr7	GTATCAGGTTGTGTCCGTCACCTT	GCGAAGAAGGGAGCATTTTGTTTT
chr7	TGAATAGGTTGCTAGCTCGGTCTA	ACAAAGCAAATAAACAGAGATGAATACGC
chr7	CTGATGGCCCTATTGACTGCAA	GATTGGTATTCATACAGAAATTTGCACGA
chr7	GCCTGGTACTTTCAAGCCTCAT	CCGATGCTGAGGTTCTACAGTC
chr7	AGAAGGAAGTGGATGGTTTAATGGC	CATATTGTCTCACAAAGAGAACTTATTTGAC
chr7	GCGTGCTCCACTGGTAGTAATT	AAAGGACAATCTGTCAATTAATTAGGCCA
chr7	TGTGTGTTGGTCTTTTGGTCCT	GCCAGGCATCGTGCTCAT
chr7	AAATTAGGTGTAGAAAAATTAGGTGTACCCTC	TTAGAAGAAGCGGGTTGAAGGC
chr7	AGAAGGGAAATTGATCATGGGCTT	CATTGAGATGAAAAGAACTGCACAAGAATA
chr7	TCAGAAATTCATAATGCAGCAGCCTAT	CGTTTGACAGGAACGAACGAAAG
chr8	CTAAACATGGCTACTCTACCAGCAA	AGCCGTCATTTGCGGAAGA
chr8	GACCATAAAATGGCCTGTTTGCT	CTTTATCTGGAATCCTGGATGTCCCTT
chr8	CTCTCTCCCATCTTTTCAATTTTGTTG	TCCATTAACCACAAAGATTTGCTCT
chr8	CGGGACTTAGATGCACCAAAC	GACCGAATTGGCCTTCTACCT
chr8	GCCTACGCTGACGTACTTCTAT	AGTCGCTATCGCATCAACCATC
chr8	TCAGCAACGTGTGCAATCTTTTAAG	GCGGATGGGAAATTGGAGGATC

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	GCCGTTGCAACAATAATGGCTG	CAGAGGGCACTCCTGATATATAAAGC
chr8	TTTACCCGACTCTTCCATTGTGTC	ACCTATCGGCACAACAAGACTG
chr8	TGAAGGCCAATCAACATTAGGCA	GGGTGGAGATTACGTAAAACCAACT
chr8	TCAGCCTTCTTACTCCTAACTCTACC	GTCTAGGATTGGCTCCCATGC
chr8	GGTTAGATATATCACAATGGCTGGTGAA	GAATATCCTTTTCCTCCAAAAGTACTTGA
chr8	GGTTTTCTGCGTTCCAGTGTTT	CGACACGTAGCTCATCAGGAAG
chr8	GGTGCTTCCTAGTTTTTAATGCCAA	GGCTATTCTAGTCCAATCCTGGGAT
chr8	AGTTGTGAGGCGTGAAAAAGTT	CAATGTCAACTGAACGGGTGAAAC
chr8	CCTGACACGGCTCATCTTCATG	CGTGGAAGGTATCTGAAACACC
chr8	AGCTATATGATAATCACTGCCAACG	TCCTAGTCTGCATGCCACTTTAC
chr9	CGAACGAAATCGAAACAGCTGT	GGGTGTCAGCAAAGGAGTGT
chr9	GTTTTACTCTAATTTGGGATTCCAAGCAA	GAGCTTTGATTTAGAGTTAATGAGACTAACC
chr9	ACTCTTGCAATGCAAATCTCCTCT	GCCCACAACATGTTACTGGCAT
chr9	CAGTGCAAATAAAGAGCCGTATAGG	GATGTTGGTTGATGCAGTATTTTCCA
chr9	GACTTATTTTATCGTGGTTGTTAGACGAGA	GAAGTCAAACAAGATGTTTGGTGGT
chr9	TTCAAGCAAGGTTTGGTAATCTTGTTG	GCACAAGGTAACATTAATAAAGTATCATCT
chr9	GCCTTGCCCTTCTTATCTATGGGAT	CCTATTGTTGGCTGCAAAGGGTA
chr9	CCGATGCCCGAATATCTGTCT	CCTTTATTTTCGTTTCGACTCCAGCTA
chr9	CACCTTGTTCTTCCTAGGCTGAA	CTTCTCCTGTATTAGCGACATAAGCTT
chr9	TGACAAGGTATTACTCCCTATGTTGATCT	GCCTTCTATTAGTCCATGTATACTTGAGAC
chr9	ATTGTCGCTGTTGAGCTATGTTACT	CTTTGATACCAAATGATATGAACACGATGA
chr9	CCTTGCAAAGATATTTTATAGTACCACCTC	GTATATGAGGACCTGCGACAT
chr9	GCAAGTTGTGGTTCTTGAAATCAGT	AGTGTATCCTGCCTCTGCCTAT
chr9	TCATCTGATTCATGAAGGCTATGAACTG	CCAAGCCAGCTAAGTAAATGTTTGG
chr9	GGTTTGCGAATTGCGATAGGTT	CACGGAACACAACATTTGCTTGT
chr9	GAGGTGAAAGAAAACGAGGAAGTC	TCATAATCATTTGGCCTTGTTTGCC
chr9	CATTCCACAAGAATGCATATTAGGC	TGTTTTTGCTGCCAGTTTACCAG
chr9	GGCACGCCGTAGATTTGAAAAG	CATCCAGTGTCAATTAGAACAAGGAAC
chr9	CAGAAATATGTTGTGTGGACTAGTGGT	CATGCATTGATATCCAGTAGTGAAGAGTAC
chr9	AATGGCACGATACAGTCCATCAT	GGGATACCACCGTTTACGACAT
chr9	TTAGCAAGCACAGCGAGGAGTT	CCTGCCTGAGATGAACTACATGA
chr9	TCTTGTGGCAGAGAAAAGAGAGAAAC	ACAGAAGTAGACAATCAACAGCACA
chr9	CCCATACGCACTAAGGTTCAAGA	TTCTTAACAGCGGCACTAGCTT
chr10	TGACATGGTAGGTGGATTGTGC	GCTGCTGGACCTTGAACA

表 A.2 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr10	AGAGAGGACAACCTCCTCACAAC	ACCTAGTAGACCGAAAGCAAACG
chr10	ATCGACTTCGCTATCTAGCCTCT	TTGCAGACCAGTTAGGGACGAT
chr10	CAGTGGTGCTTGTACTCTTAAAGG	GCACACAAGATCACTCTCTCCA
chr10	CCACAAGATTCAGTTCCCTTCAAAATTCC	TTTCTTGCACTCGTCCAGCTAA
chr10	TGCTATGAAAGGTAAGGATTTTCAGGAC	CTCCGTCTGGCAAAATGGAC
chr10	AATAATCAACTGTGACAAATATAGCATGCA	CCCTCCAATTTGCTCATGTGTT
chr10	TGAACAAATTTTATTACAGGAAACGAAATCGT	AGATGGTGTTTATCTAATATATCGTCTGCCT
chr10	CCTGTACGTATCCGCTCCTCTA	CCATCAAATAACTCATTGGCCGATT
chr10	TTCTGCGGAACGATTTCCCA	CCTCCTTCATCTGCCTCTTCAA
chr10	TACCACCACTCCCTCTTTTTTGC	GGAATCCACCTACCATTTATCTTTGTGA
chr10	AATCATGCAAGGTTTCAGATATCAAGGT	TCATGTTCCCTCAGCTCCATTTATCTG

A.3 大豆 MNP 标记引物

大豆 MNP 标记引物见表 A.3。

表 A.3 大豆 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm01	GAGTATTGTGGAAGCACAATGATACTTGG	GGCATGTGTAAACTTTTAACTCAACATGTG
Gm01	GTTTCTGTTCATGAACCTTACCCGTAT	TGCTCCAAATCCTAGCTAAGACCTAAAT
Gm02	CTAAAGGTGAGGACGCGTAGTTT	CCATCAGAGGACTACGTGTCTTG
Gm20	GCCCAAGAAATGCAAACACAAGTAC	CTGCAAATTGATGCTCTCTTGGTG
Gm20	TACTCCCTCCGTTCCCTAAAGGACA	GAAACTAGAAAACTTTGCTCTTGACTTGAA
Gm20	CCCATAAGTTTAGGGTACCTTAGTAATGTA	CCCTTAGGGTGGTCTGAACTTTA
Gm20	CAAATTCCTTCCTTCTTCTTATCTCTGCTA	AATAATTTTGTACATCACAAAGCTCATTGT
Gm20	CCTTGCTTTTAGATCCAATTTATCTCTACTA	AGAAAGGATGAATAGAACCTTGAACGAAAG
Gm20	TGTCATCAGCTAGAGGCTAAGGTT	TAGAGTAATTCCTCCATGTGCGATAG
Gm20	TCATGTGAAAGCTAAAATTCCTATGTACA	ACAAAGGTTTTATGTGGGATAAAGAGACTT
Gm20	AAACCTGTAGAAGGAATGTTAGAGGAATTG	GAAACTAAAAATCCCAAGCAAAGCCTC
Gm20	TATTGTGTAACACTCATCTTCTCCCTTT	TTGACGAGGAACGTTGTGCTTAAG
Gm02	CTAGCGTTCCCTGAGATTTCCC	CGATTGGATAGATAATGATCTTGGATGGAG
Gm20	CTCGATTACATAGTCTGCGAGCTTAGT	TTTTGTTACTCCGTGAAGTAAATCCTGTATT
Gm20	GTTACGTCCATAATCAAAGAAGAAATGGTGA	AGTAACATCAATAGAAAAAGGACACTTGGTC
Gm02	TCCCTTCTAATAGTAAGAACCTCACACAAT	GTTAGTCAAAGAGTGATTAAGCCATTGAATT

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm02	CATGTGTGAGGTGCAATTGCAAG	CCCCAAAACAATACACACTACCAAAACTACA
Gm02	TGTGCGTCGTCGAAGAAAAGAT	AGAGAGATATTTTACATGAATCTGTGATGCTCA
Gm02	GCTAAAAATTTGTATGTCTAGGAATGGAATGCA	ATGAAAACATCAAGTAAAAAGCGTTGGGT
Gm02	AGAGAGGGTACAACATAATACTTGAATGCT	TTAGGGAAAATTACACTTGCACCCCTTC
Gm02	TTTGCTGGTGGGAAGTTGCCTATG	CGGTGCGGGAAGAGGTTATTAGA
Gm02	GGATCCACATATAAACCAAAACATGAAGGG	TTCAATAGAAGGAGAAGGAAGACAAAAGGAG
Gm02	TGTCTGAAGATATAAGAGAGCGATACGAT	ACTCACACCGAAGACTGAAACGA
Gm02	AAAAAGGCTTCTAAGAAATCTATCAGACCTG	CCTTAGTGCCGTAATCTGAGCAATCA
Gm03	TGAAAAAGGCTATAAGGAGCCACAAG	TTTCATATGTAAGGATTCAAACCTCACCTGTT
Gm01	ACCATTACCACATCCCCTTGTG	ATTAGTATCTCACTGGTTCAACCATTGATCC
Gm03	TTGAGTTGTATATGTCCTTTTGAGGTGTTA	TAAGGTGCTTTGGAGTATCCACAACC
Gm03	GTATGGCTAAATTGCTAAGGCCCTTTGT	AGTCATCAAAGAAGGAACATTTCCCAC
Gm03	AGAGTCAACATCTCTTCAATAACGTACATGT	GTGTGTTTTGGATGAAGATTTAGAAACTGAA
Gm03	CTCAGCACACTTCCTCTCAGTTG	CAAAACCTAGTTCAACGAAATCGTGATACC
Gm03	GTTGTGTATGTTCTGTGGGAGTG	TGAATTAAAGCGCTTAAGCATCCCTT
Gm03	GGCTATGAATAAGATTTGATGATGGAGGATG	CGAATTGACTGCAAGCTCTATTCATGC
Gm03	CCGGCTAAGTGCGTAGAAGAATTT	CTCAACTCTCTCTCAGTCTCTTCACA
Gm03	ATCCTTGGGTGGTTTCAGAAATTGTA	ACTTGTATAACAAGTGGCCTAATTTCTCTC
Gm01	CATTCGCTAAAGAAAGAAAAGAGTGTC	ACAACTCACAAAGTGGCTGTACTC
Gm03	GGTTAGACCAGGCTTCATTTCTCAA	AGTTTCCGTTTCCGAGAGCATTAGT
Gm03	ATCATCATTTAACGGAATGAGACTAACAACA	ATGACAATCATAATCCGTTTGTCTTGCT
Gm03	GAGGTTTAATCCCTTCTCTTTTCGCTC	CCTCAAACAATTTACACAATCATATAGGAATA
Gm03	TTTTTCCAATTTCCACTCTTCTAGTGGTG	TTCCGTGAGACTATTTATCTCCACCTTG
Gm03	GACTTTTLAGAAGTTTTGGATTGGTAACATAAGCT	TGTAGACATCAAATAAGATAGTTTCTACTTGTGC
Gm03	TGTGAACATGAGATTTGGTTGGTTAATACTT	CGGACACAAATTTCACTCTTAACACATACA
Gm03	GCTCACCACAGAGGTAATGGAGG	GCACCTCTCGCTTCCATTGAAAAG
Gm03	CCCTTGGTAAATTTGTTTATCTATCCCACAA	AATCTACCTCTACACTTCATCATGCAACT
Gm01	GGTCAGTCTTATCGTCGTCCATATGG	CACTGAGCGTGGAGTAGTATCTACA
Gm03	GTCAAGAATTACTAACCGTGCTTTGAACT	CGTGCTTTTCTTGCAATTCATTTACAA
Gm03	AAAAATAGGTGAAAGTAATGTAATGCTCGAC	CGACAAATTCATTCATTTGTAACTTATGTTTCGT
Gm03	TGGCCCATTGCAAGCTAGAG	CAGTCAAATAGAGATCTAATTCAGACTTGTCAAT
Gm03	AAGTGCACCTATCACAATAAGTTTAGATCTG	TCTTTGAGAACGGTTCCCTTTGTTGTC
Gm03	TTCTTTTATTTTCTCAACTAATGAATGCCATTC	AAAAATACATGTATACTTGGCTTTGGATAAGTT
Gm03	AGTAAGGCCGTCGTGTATATTTTTAGGG	CTGTGGAGAAATTTCTCGTCCCTTTATTG

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm01	GCTGGTGGTGTGGCCATG	CGTTTCGCTTTGCCACGTCA
Gm03	TCACACCTATAAAGGATCGTAAGAGCAC	ATTAATTAATTTGTGTGCAACAGCCTCCAAG
Gm04	ACATTTCTCACACATTTGACAATCACACT	GTTGGTTGTGATAACAATAACAACAGTGATG
Gm04	GGCCAGCTAGTTACATCAGGTTA	GTGTACGAGCAAGAGGGAACACAAG
Gm04	AGCAACAACAAGGTGGTGTGAC	TCATCCACTTCAAAAGAGCTCAAAGTG
Gm04	AATTAAGAACCAACCAGCCTTAGATCTTG	AGGCAATGGAATCAGAAGTTGTCTTC
Gm04	AATTAAGGAAGGAGAGGAAAAACAAAATGCA	CAACACTCACTCACTCACTCACTG
Gm04	CAAATGGGTGATCAAACCATAAGCAATAATA	TCCTTCTTGCAATTTGTATAGTCTCCATGA
Gm04	TGAGTCACAGTCTAAAAGACTTTTTGTCTTC	AGCCATCAGGCGCTTAGCC
Gm04	TGCAGTTGATGTGCTTGCCTTAG	CGTGATCAGGAGGTGGATATGGG
Gm04	CCGGGTTACAAAATATTTGTTATGCAC	GCTTCACATCTTCGCCCTTCAGAG
Gm04	ACATCTTGTCTTGCCTTAGGTCAAC	AAGCTACCAAACCTCTATGCAGTAAAAAGATA
Gm01	CCACAATTTTCCAAACAGAGGGAGATT	CGTTCATCTTCTCTGTTGAGTATCAATGTTG
Gm04	TTGCAAAATCACAAGTGTTTGGTACTTG	ACATTTGTTTAGTTGGAAACACAAACAAGAA
Gm04	AGTCTATGTGGCATTGAATTGCCAC	GGTTCGGTCAGTTTCGGGAAAAA
Gm04	GAAAAGAAAACCGGAAATGAACGAAATGA	CTATAAATAGGCGAAAGAGGGTTGTTCTA
Gm01	AAACTTGAAAAATAAATCCATCCAAACATAGGT	GACCTCATATCTAGACCACAAACTCCTAATAC
Gm01	GAATGTTTCTGGACAACGAGAGTAAACC	GGTTACCTTATGGTTACTTGCACCTTTC
Gm04	GGCCACCTGCATATAAACTCCTC	AGTACCAGATTCTTCTACTCCTTCATCATC
Gm04	GTCATGTGATACTAGGGCTCAAGATTTA	CTTTTGAGAAGAGATAACTTCCAGCTTTTTT
Gm04	AAAGAACTGAGACTATTTTATTCTCACAAGAA	ACTAAAATAGTCTCTACCGGAAGATGCTAATAAA
Gm01	TAGCGCATATCTGTTGTGGTTATCATTA	GTTATCTGTATAACGGTTCAAAGCATCAAGC
Gm04	GCAATGGATGTATAGTTTTTGTGAACATGAA	GTTTATGGCATTGTGATACTACGCTTGG
Gm04	AGTTAATGGAATATCCCATGTCAATTGCTT	CAAGTTTTGTGCACCACTCATGTTT
Gm04	GGATGCAATTCTATATGTGTCAATTGTTGTT	CATTATTCCAATCCAACCAATTGAGCATTG
Gm04	AACTTGACATCAAGATTGAAAGCACTTAAGC	TGTTTCTTTTGCTAAGAGCACCTTTAGTT
Gm04	AACTGCAAACTCAACTGGAAGAATTACT	GATTTCTTGGGCCTTCTTCCAAAAAGA
Gm04	AGTAAAGGAAAACCTTCTCTATTAGTTTCCTACA	GCGATAATATTACTCATATTTTGATGGTAAGGAC
Gm04	TTGCAATCACGAGCAGGCAGAAA	CGCGGTTGCATTTTTGTAAATAAGTCG
Gm04	CTATTGGATTGAGGCAATGAAAACCTGAAAT	GATTGACTGAAGCTAAAGCCAATACAATATG
Gm01	TCTTAAATCGGGAAAGTTTCACTTGGTTA	GGGACTCCTTCAAAGAGTATGTTTTGTTTAA
Gm04	ACTTTGTGAATATGATGAAGCAAAGAAAGGA	TGTCTGAAGTCTCAACTCATACTCAGTC
Gm04	CCCTTGATACCATGCATATCACCTT	AATTCAAAGCCTTTGCTAGAGTTCAATGG
Gm04	GCCATATCCCACTAGGTGAACCTA	TTCAAATTCTCACTTTGCTAATTTGGGTGG

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm05	GCCTTGATTTCTCTTCGCCTCTTC	TCTCATAATCTGTGCTTGTGCTTGTG
Gm05	CCTAACTAACATCACTCACTCTATCCCTC	AATAATTTACGAATAAAAAGTGCGGTGTTG
Gm05	TTGGGTAAAAAGGGTTTATGCAAATCCA	TTGATGAAGGGTCCTTGGATCATTTTC
Gm05	AGTACGAAGGTAAGTAAAAATAAGTTTTCATCC	TACAGAGGACTGAGGTGACCACT
Gm05	GTGTAATGGTATGTACTATGTAGTCAACATGTA	CATTTAGCTCTCCCAAAATTTTGTCCTAATTATT
Gm05	GAGTAACCTTGATTTGGTCTCCCTATGA	CAACACCACTGTACAAAAATCACACACA
Gm05	GCTAAGTCGAAGTCAACTTCTTGCA	ACGATACTGGAATCGTTAACCGTTG
Gm05	CAGGCGCATCACTTATCCAGATG	TTTAGACCATTTAAATTTCTCGAGAGCTTCTG
Gm05	GACGACCATTTGGACGTATGACTC	GTCAGTCGGCATAGGTTCTATACAAATCA
Gm05	AAAATAGCATTTCCCTGTAAATTAACCTTCCATA	CGGCGAGCTATCTCCTCTTCA
Gm05	GAAGTGTGCAAACAGATACGGAAAAT	CTCTAGTCATGTAGAATGGAGTGTCTAGTC
Gm05	CGAGGAAGCCAAACCAAGATTTTT	TTTTTAGTGCTTATTGCAATATTATGCTTGTAGT
Gm05	AATCTCTTAAAAAGGTACAAAAGGTTTGCC	TCAATTACAGATATGTGGTAATCGATTAAACAAT
Gm05	GAGGTGTAGTCAGCAGTGACAAG	CATATCCTTCACCACCACGTTACTATATTG
Gm01	CATTCCTTCTTCCCGATTTCCAG	CCATATGTAAAAACAGCGGAGGAATCAT
Gm05	TTCAATCATAATATACTCATCTTCGAAATCACTA	CACTCAATGTGTTATGCGACACCT
Gm05	CTGACCAGAAAGGCTGAGTTTAACA	CCACAAGACCAGGGCTTGTAAGG
Gm05	GTCTGATTTGAATCATGAAATTATCTCTCCACT	CATGAACCATAAAGACTTCCAAATAGTTTTGGT
Gm05	GGAAAATGTTTATATGCTAAGAATTTGGAAAGAA	AGCTCCGCTTGCCAGAAATATTC
Gm01	CGACTTCACGTGGAAGTTTGTCC	CAGCAGTGTGCAAATCGTCATTG
Gm05	GAAATTAGCCTCGACCGACATCAA	GTTTCAATCGACATCGATCAAGACTATTTTT
Gm05	TACAAATCTAAACAAGTGACGGGACAAG	ATGGAGGGTGATTGTTTTGATAGGAAATA
Gm05	TTGTAATTAGATCGTGCCACACAAGAA	GACCGACTCCGTAAGGTAAAAATGATC
Gm05	CAGAAGATGATAAGGGAAGTGAAGAG	CTTCATTACATTAATGGGCCCTTTTCATGGG
Gm05	AAATGGTTCTAAAAGTAACCAAATATGTGTGC	CAATTTCTCACATAGAAGGAAATTGAAATTCCAA
Gm06	AGAGAACGTTGTTGCTTTTAGTGTT	CAAACCTCGCCGATGTTTGCAC
Gm06	TTGAATTTTGATAAGAGTTGCCATAGCAACA	CGGGCTGAGAAGTTAGGTACTTGC
Gm06	ACGACATCTAACATTTTGGTTTGGTGT	AGAACTATGGGATTGATGAGGCAGTAG
Gm06	AGTTACAAGTTTACAAATGCTGTTTTCTCGA	TGGATTTGCATTAAATGTAAGTACAAACAAAG
Gm06	CAGGCTGGTGGCATTGTTAAAAAG	GGGCAAGAGAGTTGAGGTTGAATG
Gm06	GGGCTTTGGTACATTGTTACCCAT	GTGCTTATCAACACCACACTCGATATT
Gm06	AGCAACTGGAAATATGAAGTTTATCCAGAT	AATTCAGTTCCCACTTCTGTCACTCC
Gm06	TCTCTATCCGCCTACAACATCTCTTG	CATGGCAACCGACAGGAGTAAAA
Gm06	AAAAATACTAGGGACGATATTTGTTTTCAAA	CGGGACATTAATTAGTCTAACAACACAGTC

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm06	GGGAGGGATTTTACATCGGTTTCAA	GAGAAGGAAAGTGGAAAGAAGTTGTGG
Gm06	CTATTCTAGACCAAAATCAAAATGGACAGA	TCAGAGTGGCACTATTCCAAGTTGA
Gm06	GGTGAAGTAGTCAATGGCGACTAAAAATAA	CCTTTGGAATACATCCTAGCAGACATGC
Gm06	GGGAGGTATATGGACAACAATTTTCGC	CGGAGTCGCAGCTTCGATG
Gm01	CGAGCCACATCAGCGATAACTAA	GAAATACCTCTACATCTTAAGTGATTACTCAAAT
Gm06	TAGCCTATTAGTTTATTTGACTCAAATCTTGCAT	AAGCAAGCTTCCATCAGGCTTAC
Gm06	CAGTTTGCTCAAGCGGCATG	CAACTCGCTTCTCTAAGAAGACAAAATGA
Gm06	GCTTATGCTGTGCATGACACAAA	GAGCGTCTCTCATGTACGATTATGTG
Gm01	TCTACATGCAAATATAATTTGTCATTTTGGGT	TAGTGTTTTATGTCATCAGAAAGTGATTGTCTTT
Gm01	TACAACGGTTTCAAAGTCTTTTCCTCAG	GCAATTTCAAACCTTCTTAAGACACTCATGAA
Gm06	ACAAGTGCGGATCGTGTGTAC	CCTGTTGGACGTCTTCAGGTC
Gm06	GAGTCCACCTTAGCTCATCTACAAAGG	TCCTAGGATTATGAGCAACTAGGTGTTTC
Gm06	CCATGGCCACCTTCCATGACT	CCGAGGCAGTTGTAGGAGAAAGG
Gm06	ATTTTATGGCCTGGAATGAAATTAATAAAAAGAC	ATGATGCTAATAAAAATTTTGACATTATTTGGCCA
Gm06	GGCCTTGTGCACTCTTAAGCATAC	CGGTTTTGACAAAACCAATGTTACCTACG
Gm06	CTCCGAAACCTCTAATGAGGTACA	TGTAATCCCTTATGTTCCCTTTGACTTTATATT
Gm06	CCAGTCGTCTATCTCCCTTGTTTTT	ATGTGCGCAAGAAGGCACAAACC
Gm06	TCAACGTAATTATTTAACTATGTTTGATCAGCA	TCACCGTGTGCGATTTTCAAG
Gm06	CAGGCCCAACTGAATCAGAGTAA	TATATGTATATGATGACCAGGTGCAGGATG
Gm06	GGTAGCCACAACCTACCACATCC	CCAAAGTGATGGGTCACCGATAAAG
Gm06	CAGGAGTGATTGATATTGTTTCGATGGAT	CAGGTCACGTGACTATAATTGTCTAACTAAC
Gm01	TTGCTTAATCATTGCTCACTGGGAG	GCCTAAAACACACACAACAACACTAAAAAA
Gm07	ATTTAGAATTCGTTCTCGAAAAATTTTGGTC	CAGAGGCTTGTTCAACCAGATC
Gm07	CCAGTTTGACTGGCGAGAACTT	CAGAATCAAAATAAGTGTGTGCCATGAAATT
Gm07	CAATCAGGTACCTCACCCTTT	CTGACATACTCATTTGATGACGTGTCTTG
Gm07	GGTTGTGGCCACACTGTG	GAGACTAAAGAGATATGAAAACACTTAAGGTGAA
Gm01	CCGCCAGCAACTAGTTATATGGA	TTTTTGCTTGGCCAAAACCCC
Gm07	ATCTTCCAACCTTTTTCCTACTCATTTGTCTA	TTTTTCCCTCCTATGGTTGAAGGATACG
Gm07	GAGGAGGTCACAAACAAAAGAAGTGA	TGTGTGCAAACTCCATCACACTAAC
Gm07	ACAATCCCAATTTCTTATGATAAATGCTAGCA	GTTTCAACCAGAGGGCGAGTC
Gm07	CGATCAAAGTTGATGTTAGAAGTGTGAGT	CACCCTGAACAACCTTCTTGAAGACC
Gm07	ACAATGTGTTGACCATAACAAAGTTGTTACA	GGATTATGTGATTGCATCAAGGTATAACGTC
Gm07	GGGCAACCCATGGATCCC	TGAACCCTACTAATGAATGCACTTCCC
Gm07	GCATCTGTGAATGGTCGTTGGTAG	CAACAACTATTGCATTTTGGGAGAAACA

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm07	AGCCCAAAACCACTTTTGT TTTTGTA	GCCTATTGTGCACTAAAAGTACAAGAAATTT
Gm07	GCTCGAATTTGAAAACAGAAGCTCTTA	CGTCTCAATATATTTATGGGACTCAATTCGAC
Gm07	GAGAAGAGGAGAGTGAAAAATCACGTT	CTGACCCTTGTGATTTTGAAAAATAACAACCTT
Gm01	TATTTCAATATGCTTTTGTCTAGAGCGTAGAATA	GAGTACTAGTGGAACCTGTCAITTTTATTTGGTT
Gm07	GAATTGTGGAAATTTCTATTGCCTTAACTTTT	GTGAGTAATTACGCGAAGATATTCACCCG
Gm07	CCTCTCAATCTCAGGCTAATTAGGCA	CGCTTAGCGCGATTATGGACC
Gm07	CAAAACAAATCACGCACCACATCTTAA	CCATATGTTGGGATATTGACAGATGATGAGA
Gm07	CATCATGACATAGGTAAGTATGCACATCATC	AGCCGTCCTAGGCTGTTGG
Gm07	CAATTTGCTCAAGTTTCTTTTGTCCAATGA	CAACATTGACAACTACACTTCTATGGAGAT
Gm07	GAAATGCAAACACGATTTATACTGGTTCAA	ACTTACAAATTCACAAAGGAATCTTGAGTGA
Gm07	GGGTTATACACTCCATCAATCTTACATTGAT	GCCTACTCTAAAGCATTTAAGTTTGAGTCAA
Gm07	CCTTTCAACTATGCTCAAATGTCAATGTT	GGTGTGTCATGAATATCAATAATGTGATGGA
Gm08	TCAGGTGAAGAAAAATCAGAGTGAATACCG	GCACCATATCCACATGCAGCTAATA
Gm08	CCCGTTTCTTGTTCACACCTTC	GAAAAAGTTCTCAGGAGGAGCTTTTATCC
Gm08	GTCAACGCCCCAAAGTTACAAGCA	GGATGCTTGTAGCTTTGAGCTTTTAATTATG
Gm08	ATTCTCAGCCTATGCGACTTCATTTTC	AATTCACACAAACTCTGTTATCTCATCATG
Gm08	AATTTAAACAGAATCTGAAGTATATTCCAACCAA	ACAATAAGGAATTACTTAAAGGAGGAATCTGCC
Gm08	TGTTGAAGGTGGGTGCACTTAT	TAGACACCTTTTCCAAGTGCTACACC
Gm08	GCTGACCTTGGTGTGTCATC	AGAACCCTTACTCTCTCGAGCTTC
Gm08	AAGATGCGTTTTTCAAAATCATCAAAACAAT	GCAATACTTGCAAGAAAATTCCTTCTTCAT
Gm08	GCCTCCATTAGACCTTTATCCCTTAAAAA	CGCATTTGCTGTGTCCAACCTTTTTTT
Gm08	ACTAAAACCTTATGCTCTCGTAAACCC	ACCTACTTGTGAGAGAACGTCTATTTTTATTTTC
Gm08	AAGGGTGTTTTTGGGTTTTTCAATTCTTA	CCCAAAAGAAGAAATCATATGTCGTGAACG
Gm08	ACATGAAAGAATATGTTGCGTAGATGAT	CTGCTAAAGTACAAGACACTGACATATCAAC
Gm08	TGGCTCAATCTCTCTGGATTTGACA	GGAAACAGACAAAGATTTTGTGTTTAGATGTAG
Gm08	CTTACATTTTAATTTTCAAAAGATCCCTACCGTT	AGAATGAATTCATTACTCTGATACCATGATAAAA
Gm08	CCCAAAACAACGAAGCACTATAGGT	CGAATAGTTCTTCTAACTTCTACGCTTCATT
Gm01	CCCGGTGGCAAGTATTTGTTATCCG	AGGTATACATTGATTTGTCTGGAGAGACAA
Gm08	CTGTTTGGTTGTTAAATAGAGACCAAATCCT	ACATTCATTACACAAATTTATACTTAGCACA
Gm08	AAAAAGTGAGATTAATCTGTCCCTGAAAG	AACCAATAAAACATTAGGCTTACAAGTTTTT
Gm08	CCATTTTCAGCCATGTGAAAAATGCT	CTAGGATTCAAATTTCTAATTGACTCATGCAT
Gm08	TTGCTAACAGAGAACATTTGAACGACTAC	GATTTGTCACAAAAATTCATGTATGTGTAGTTGAA
Gm08	GAACTTTCATCTCTTTTCAACATCTGCTT	CTTTCCCAAGGTGTGGGAATAAAAAA
Gm08	AAAATGTTTTGCCACGCATAGACAG	TCTGCAAAATTTCCAAAAATTCCAAATCTTA

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm08	GACACTTCTGACAAGGGAGCAAT	CACTAAGAATACTGTTGTGGCTAACAAAGA
Gm08	TCAAAAGTGGGTGACTAAACAAATCTCAC	CACAGAAGTATGCCACTAAGTCATAATACAA
Gm08	TGTCATCTTATAATTCGAGTTTGAAACCCAA	GGGTTCCAAATTCAAATTATAAGATGACAGG
Gm08	GAGAATAGTGACTATCAATTCTAGGAGGGAG	CCCAATTCTGAGTTGTATAGTCATCTAGAGAG
Gm08	GCACCCGACCACAACATTTAATC	ATAGGAGAAGCTAAGTTTGAGTGTTCCT
Gm08	CCCGAAAATATGAAAATGTTTCAGTTTTCTGT	TCAATATTTAATTGGCTCATGGGTCAGTATT
Gm09	CCCATGATTAATTGTTGTTGGATTCAATTA	AACAACAAAGTTGTTTGTGGCAA
Gm09	TTGCATATGTTTAGAAATCATAGAATTCACCG	AACCACAACCAAAAATAAAGATTGAAAGAAGTA
Gm09	TGGTTGCGGCTCTTTTAGGTTTG	CTACCATGTCTGCTCACAACAACC
Gm01	CCGTCCAACCTACGGTTATTTCAAAAACA	CCTCCTCTCTCTGGTTTTTGTGTTAGTGG
Gm09	ACAAAGTCAAATTGGTTTGCACCTG	AAGTAGCGGTAGTATTATACTGAACAAAATAATA
Gm09	CACGTCTCTGGATCCATCATAGTGC	ACTACTGGCAAATACGGCTGAAAA
Gm09	CTTGAGCTTGAACCTTTATCACAACAAA	TCTCCTGAATGGTGAATTTGATATGAAGGA
Gm09	TGATTTTGCACAAGCACAAATACTCCT	GTTTGTGGAAGTGATCATGTAGAAGAGGAA
Gm09	CTTGATTTTTGGCCATTTTAGTTAAGGGTA	GAAAGGTGTAAGTCTAGCACATGAGAAAG
Gm09	CACTGCTGATCAGGACTACAACAA	CCCAGCGCAAGAGACTGAAATAGC
Gm09	CAGCTTGGAGAGGTGCAAGATAG	TTAAGCTTACATGGAAGCCCATGAATTAA
Gm01	CCTTGAAAGCCTCGTCTCTCTTG	AAAGCTAAGGCGCTACCGAATTAC
Gm09	ACCGGTGCATCTTCCAAGGG	CATTTGATTAAAGGTTGTCGTCCTTTGTAATAGA
Gm09	CGTGCTATCATGCTTTGAGTATTAGAGTT	CCGAGTGGTTATCCGTTTAAACTTTATCTTG
Gm09	TGAGCTCGCTGAGGTGTGG	GGATGAAAGAAAATGAATGCAAAGAAAGAAAAGA
Gm09	TGCAAGCATGATCAGTTTTGCATAATT	TCCTTTTCTTTCTAAAGCACATTCTCAACTT
Gm09	CTCACATTCGGAGGACTACACAT	CAAGGGCATAACAACCTCAGAAG
Gm09	ACAGCTACTTGTTTATTCACATCTTCTCAA	GTCCATGACATCAAAGTTTCGTAAGATCA
Gm09	ACCAAAAGAAACCTTTGAAGATACTGGAG	TCTGTCAAGCTATGCACAATTCTAACTTTC
Gm09	CAAATCTGTCCATGAATTTTCTGCTCAT	CAACAAATCTAGACGAGCATTTGGATGC
Gm09	TAGGGTCAAATGGAGCTAGAACTTCTA	AGAAAGAGAAACACCTAGTGTCAAAGCA
Gm09	ACCTCGTGTGTGAATCTTATAAATTTCTGAT	CCCTGGTTTTCCCTGCTATCTTTTTT
Gm09	TGTTTAGTGTTTCTTGTATGCGAGGTAATT	AAGTCACCTCTGTTGTTGATCTTCA
Gm09	GGTAGAACCTTGTGTTTTTATGTGAGATAAATCT	TACAGACAGTAAAAGTGAATACAAGTTTGTGAT
Gm09	CCCAACATTGCTTTCAAAGCTTG	ATTTTTCTTTTATACAACGAGTTTATCTTTGGGA
Gm09	AATATGACCCATATAATTGCCAATGGGTAA	TAATGAGCGGAAGTTAACGGCGAGATA
Gm09	TTACGATGTCCTTCACCTGATCATAAACT	CATTTTCTAGCATATGGGAATTTGAGTGGA
Gm09	GATGAAGCACGTGACATATCAAACCA	CCATCATAACCTTGTCACAAAATTCTTGA

表 A.3 (续)

染色体	正向引物(从 5'端 到 3'端)	反向引物(从 5'端 到 3'端)
Gm09	AGTGATATACAAATCCGGGATCTGTTTGA	TAAACCGGTACGTGATGAACTGACT
Gm01	ATCCACTTACAGCTAACTAACTTTGACCC	TGAGGAGGGTTATTTGTTGGCTTGA
Gm09	TTTTTCTTCTTCTCAACTCTCTATGTCTAACA	TTTCTTATGTATAGACAAGCGCACCTTT
Gm09	TTGGTTGAATGGGTACTGTCAAAGTG	GTTGTAGGAGTACAAAAAGAGGGATTGATG
Gm09	TGAATCAAACCTTTCACCATCCAAGGTG	TTTAAGTGTTAGAAAACCACTTCACATTACTTT
Gm09	GACTTTCTCCGCTCTCTTTTCGTT	AATTGCCAAAAAGTATCATGTGCGATTTTTT
Gm09	TTTTTGAGATTGCTCATCATCATGTATGAGT	AAGTTTGTCTCTCAATTCATCCTTATCCAC
Gm10	AAAAACAATTTAGCACAACTTTGAAATCATTAAA	GGGATTTGACCAAAAAGGATATCTTCATTTAAAAT
Gm10	AATCCTTAAAAATTGTAAAGCTAACTTAAGTCC	CCATACTAACAAATTGGTCCATCAAAATTCCTAA
Gm01	CAACAAATTTCTTAAATGCCAAAAATACCTT	TCCGTATGTTTCATTGCAATCACCAAT
Gm10	ATTCATACGTTATTTGTACAATAGGACTTAACTT	CTAAGCGTAGGATGCGTGTTTAACG
Gm10	CCTTAAGAGTTCTGTTTTCATCTTTCAGCTA	ACAATCTCTGGATGTGTTCAAAACATTTGA
Gm10	ACTCAAGTTTATCAACCAATCCGCATC	AGCAACCAGAGGAAAAGCTATAGAAATCT
Gm01	CCGGTACCTTTAGCTTCCATAACT	AGCAAGTAGGAGCATTCATGAAGAAG
Gm10	CCTTTAGAGGACTGCACATCCTCTC	TGAGGGCATGTATCCCTCTGTAGG
Gm10	GAGAATGCCAGCTCAGCAGTATC	CCATCAGAGTTACGCAGACAGAG
Gm10	TTGGCCTTAGTCTTTCTTTGGATATGAGT	CCTCTTATAGTAGTCATGACTCATGCAAGA
Gm10	GTCTGGTCCAACGACCTTTCTACA	CTGCTAGCCTCTTGAGCAAGAAA
Gm01	GAGGCTACAATTCAGGCTAATTGGTTAT	AAAGGATTTGGAGAGTAATCCCTTTGTC
Gm01	ACAAAAACCTTAACCAACGTCACCC	TGTATGCATAGCACTTATCACTAACATCGG
Gm10	CGTCATCCTTTAGTGCCACGTTAG	GGCCGAGCTGCGTATAGATATTTCA
Gm10	ATGCAAAGACAAACATCGTCTTCTGC	CCACCTTGGTATTTCCGCTG
Gm10	GGTGAGCACCAGGGCTTC	CCGCCATCAGTCATGGGC
Gm10	TGTCCTATATGCGTTAGATGCATGAAATTT	AACATCTGGGTCAGGGATGACTAG
Gm10	CTATGTAGGATCATCCTGAGGTATGGAG	CTCAGGAGCCGCAGTTAAAGCCA
Gm10	GTTTTTCAAAAACCGATGTGAACTACCT	CAATCCATTAGCCACATTAGTATGCACTATT
Gm10	AAATGCATGTGTATCTAATATTGGCTCTCAC	GGCCCTAATTTTAAGAATAGGTGGAATGTAT
Gm10	CGACAACCATGTTGTTCTTGTGAA	CTGCATGCAAGTGCTTTACTCTTAATA
Gm10	TTAGCAAACAGAGTGCAACCCAGAATG	TGGATGACATCTCCTCGCTTCTAC
Gm10	GATTTTTCAATCTTCTTGAAAGCAAGCTCTC	TGTGTCAATATCAAACTTCAACAAGCATTT
Gm10	GGGACATGAGGTTAATATTCGGCTA	CATATCACAGTTCTGAGACAGCAATAATCTA
Gm10	CCAACCTCAAAAATCTAATGGGCTTT	GACATTCTAGAATGGCTATTCGAAACAA
Gm10	CAAGATAATGCAGGGATAGTTTCGGAT	CTGGTCCAATCCCTTTAAGATTCAACTC
Gm10	CACAAGCATAACATGCATGCAAAAT	TCATTTTCTTTTCCAAGGCAAAATACTTGT

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm10	CCTCTAAGGTATGCGTTTATTGCATAAAAA	CAGCCATTTTGGTAACGGTAACTAAATACC
Gm01	AAC TTGGAAAGAATATCTAGGTGATCCATGT	AGTTATGAAACATGTTAAGGGCTTAGGTTA
Gm11	TTGATGACGTGTCTTGTTAGATGTTCAA	TTTTTCAT TCCCGAAAATCATGAATCCTAGA
Gm11	CTAATCTACTTCTCGAAGATTGACAGGAG	CAAAATACTACTGCACGTGTACACATCG
Gm11	AGAGTTACAACAATAATGTCAACATCGGTG	TGTCATCGTTAGTATCATTTCTCATTTGTGACT
Gm11	CTGCCACCCTCTCTACTCCTATC	CTTGAAC TGTACATGTAATGTAATTCGGA
Gm11	GTATTTTTTACACAATGAAGAAGCTTCCCATTT	CTCAAATGTGTTTAAAGTTGGGATTGAAGGA
Gm11	CAACAGCAGTTACCGTTCCACTAG	AGACCTTGGCGACTTTTATCCCG
Gm11	CCACCAGGAGGAAAT TACTGCAA	GTT CAGGTTGATCATGTGGATCTATAGAAAA
Gm11	CTCATAGTCACATCTTCTAGTCGCCTATAT	TTGCGATAACAAGATTTTGTGAACAAATACG
Gm01	CACCAATTCACAATCAT TACCGATCATCG	TGTAGTTGAACGAAAGCCTGGTATTG
Gm11	AATCCTAACTTTGAGTCAAACTAAGCTCTAT	CGATACCATTTGAACGAATAACTTTTCCCTTAT
Gm11	ACAATTCAGATAGCATAATATTTGAGTGACAT	TTAACAGATACATCATCTTAACAAAAGACTGG
Gm11	ATGGATAGGTTTCGGTCGAATTGTTG	TTTTGTCTAACTTGTGTGAGTCGATCTTG
Gm11	GTCGTTACTAGCCATCCATTGAAACC	TGGATGAAC TTTTGCAGAAAATGGCC
Gm11	GCAGTTGTACTCGATTTTAAATTTTGATAACCAA	GAACACCAAGCAAACGGATTCTTTTC
Gm11	GACTAAAATTGTAAATTTTCTTAAAAGCGTGGGA	TCTTGTGTGATTTAACTATTTTGATGTGAAAGGG
Gm11	ATTATTAGTATTACTTACCCTGCATGTCTTGCC	CTCAGATCATATGGTTCCAGCATGTG
Gm11	TCCATAGGAACTTCTCTCCAGTGTAGT	AACTAACTGCTACTTGATGGGAGTAGTAG
Gm11	CTCACAAATCTCCTTCCATTCAAAACATTG	TATCATAGGACCTCCAATCCCTTGTAAG
Gm11	AGGGTACATCCACTAGGTTGGTC	GTA AAAAGCAAGAATTAAAGTGAACAACGGAA
Gm11	AAAAACCTATACGGATTGGCAATCCG	TTTTTGT TGGTGTTTACTGTGCTTATCCT
Gm11	CATTCCATTTTGCGAGAATGAGCTA	TGTAAGTTCC TAGTTAGGAACCGTGTTAAA
Gm11	AGTTGTTAAGAGTGTTC AATGAGATGTAGGG	GCTTCCATGCCTTCATTACTCTACTCA
Gm11	TTGCTATATCATACCTCAGCATTGATAACCA	TGTCCAGCCTCAAGATGAAAGCG
Gm12	TGATGTTGGATCGCGGTTGT TAA	GATGACGCATGCTTACTAACAGAACA
Gm12	ACTAATCAATTTGGTTCTTATCGATCAATTA ACT	ACTGGGACGAGTGCAACGA
Gm12	CAAACTACTTTAACTAGGGCCTGAGTTG	TCAAATTTTAAAAT TGGTACGTTGTGACCAG
Gm12	AACCTATAAACCTTTC AACACAGATTCAAA	TCAGCCTAGATACAAAACACATGTGTCTG
Gm12	GGGTTGAATGGAAGAACAAAATACAGGG	GCCAT TGGTTGACACGGAATTTATTTCT
Gm12	GATGACATGGGAGCAAGGATGTT	TCCAATAGTTTGTGCAAAGACTTGTGC
Gm12	GGTGAAACACACCCATCCTACCC	AAGTCAATTGCTACCTTTACTGAATGTAGTTTAA
Gm12	TGGGTGATGGGTAGGTTCC TAGA	TCTTCAGGATCAACTAACCTCCCTTTG
Gm12	GCCTATAGAATGAATAGGTGGACGAAT	TCATAGTCCACGGTCAAATCAACCA

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm01	TGAAATCCACGTGTTAGAGAAAGTGGG	TTTACACAATCCTTTTTCAAGTTAAACACCTA
Gm02	TTTTTGTAGTGCTAGATCTATGAGCATTTT	CCATCTCAGCTGATCCTGGAAC
Gm12	GGGAAAGGAACAGGTTTAGTTGCTAGG	GTGGGCATAAAGAGGATTCTTGTCTTCT
Gm12	ACCTTGATAACCCATTAACAATTAGGGA	ACATGATTTTATTGACAACATTGTGGATGTC
Gm12	GTGCATTTCCAAAATCATCTTCTTCCTT	AATACACAATATCTAACGACAAGGAGCAAC
Gm12	AAAGAAGTAAATCAGAAGAAGCCCAAGTC	CATGATCATGAGGGCTTTACAACGA
Gm12	TTGGATCACTGGAACAAGGTGGT	TCTGCACTTAAATGAATATATGCTAAAGCCAA
Gm02	ATTTCAAGGAAGACCAAATTGGAGGAA	GGGTCATTGAATTGAAGTTTTCATGTTATCT
Gm12	GCATTAAACTTTCCAAACTTGAGTTTGCG	CATGCATGTCTATCGCATAGTTTTTGTGTTG
Gm12	CGGAGAAGCTATCAGACCAAGTTC	AAAGTTCTTCCGGAGACGCTATCG
Gm13	GACAAAAAGACGCGTGTGTGA	GGACGTTCTTGGAACAATAATATCAATCATGC
Gm13	GCAAGCGTTATGCAACAATTATACTAAACCT	TAACGGATTCTTCAAAGTCTAGGCATTGG
Gm13	ACGAAGACTAGAGTGTGTGAGTCAC	CAGGAGTGATCAAGGATACTTTAATCGATT
Gm13	ACCACCTCTCCCTTGATATCTCT	AGTCGCAAATACCACCAATCAGTG
Gm02	ACCCTGTAAGCATCAACTCTGGTAC	CTTGTAACAATGAGTGTGACATTATTTCCCC
Gm13	GCATTCAATCCAAAATGAAATATACACCC	ATGATACCCAGGACCTGTCTCAG
Gm13	AACCTAATCATTTGGAACAACTATCATCTATCAT	AGGAAGACAGAAGGAAAATACGTGCA
Gm13	CTCTATCGGTGTTTGGTGGGAAG	CTGCTTCTTACGTTTCCAAGAAATGAGG
Gm13	AAGGAATACTTAGAATGTTTGCTTGAAGTGA	TTTTTGTGGGTGGAAGAGTATAGTAGTGA
Gm13	GTTTCTCTGCACCCGTTGGAG	TGTATACTCTGGTAGAAGTATGTATATTTGGGG
Gm13	GGCGTATGTTAAAATCTCTTATGTCTCGAT	GACACTTACTCTCCTATGCCGAAG
Gm13	CAAAAGTCAAAAGAAGAAGATTCAAGTGCT	ACTTTGAGACTCGGTGTATCTTTTCCT
Gm02	AGAAAAAGACGATCTCGGACACATTC	AATTCCTACTGTCTACGTGCGATG
Gm13	ATCGATTAGATATGACCAAGGAAGAGTCTA	CCTCCAGCAGTTGACACTTGTCC
Gm13	GAATCCTTAGGACAAGTGATGATACACAA	CACATCTTATCAGAGCGTTGTGTCTTAA
Gm13	TGGTAGTCGCTCTTGAGTCTCAT	AAAAAGTGATTTTGAATCTTTGCATTGTATATGC
Gm13	GTTGTACCTGAATCAGGAAGGTGAAG	TGAGGCGCTTAGGAATACATAATAAACAC
Gm13	AATCTTTGGATTGAAAAAGATTACGGCAA	GCATGAAATTGTGTTCCGCCATAAAGG
Gm13	ATCCATGATTTTCATCATCTATCAATTACAACGAT	TAAGTGTGTTGTAAGTGATCATTTGATGCTAAG
Gm13	GTTATACACGTACGCCTTTTGTAAGCA	TCAAAGTACCACGCAAGCTTGTAAT
Gm13	CATGACACAAAAGCATGAATTTGTTATTGAAAT	TCAGGTCTAACAAATTAGTCTGATAGAAACATAC
Gm13	CACAAGAACCTGTTTCATTTGCAGTA	CATGGAGCCCAAAATGTAAACAGAAAAAA
Gm13	GCACCTTGCTTTCCATCACAATA	GGACAATAGTTTGGTACGATTACTGCC
Gm13	TACGAAAATTCCCAAGTATTCACAAAAGCT	ACCATGCTATGCATCCAACACATG

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm13	TGAGCAATTCCTTCTTTAGTTCTCACAAA	GTTATTGTCCCAACAATGACACCTAT
Gm13	CCATAGTTCTAATGACAACCCTGGAAC	AAGTTAACTGTCAGATATATTTGTCGCACTT
Gm02	AGTGCAGTAGACAAGGACAAAGATCA	AGAGAGAGAGAGAGAGAATGTCTGAAGG
Gm14	CAATGAAATTTGGCTTCTCTCTCTCTC	CAATTCTTATTCCTTCTCAACTTGATTGTA
Gm14	GAATCCTACTACGCTCTTCATGTACGT	ACAGGTATATATCTGAAAAACACACACACAT
Gm14	GACGTCGGAACCACTACGTTT	TTTTTCTTCGTCCTCTTAACCAAATAGAAAA
Gm14	CCTCTTAACTCCATAAAAGACATAACACCAT	GCAGAGGATCATATTCAATCAACTGACATTG
Gm02	GGGTATAAGTTGTGGTGTTTGGAGTA	CTATCTTGAGCTAGCATATAGCCAACCTCC
Gm14	ACAAGTGCTTTGGAGGAAAAATTGATTCA	GGCTTAAGGTAGCTTAAAATACATGCGAC
Gm14	TAACAAAATTGTGTTGTATCCTGAGTGACAA	TGAATGACTCTTGGTAGTTTCATGGAAACT
Gm14	TTCTTTTCCAAAGATTTCTCACCTTGTT	CTAAATAATACAGTCCTCGTGATTGACGTC
Gm14	GTCCATACACGGCACAACCCAGAA	TTCTAATCAAGTCATTCTTGCAGATCCTA
Gm02	GAATAATGTTTTTAAAAAGGCTACCAGGTCAG	TACCCTATTTTAGTGATGCAAGAAGGAAATTCT
Gm14	AGAGCAATCTTCTCTTTTTTCGGTGTG	GGCTGCTTATCATAATTGTTTCACATCAACA
Gm14	TTCAGGGTCTGTGAAGTAAGAATGTGT	TCCCATGGCCATTATTTGGTAGGT
Gm14	ACTCATATTGTGTGTGGTTCCATTCT	TTGGACATTTGGTACAAATATCATAGAGGTG
Gm14	CCTACACATTCGAAATTGTAGATGTTGTCT	AAAAAGACCAAAGTCTAAAACACTGCAAG
Gm14	TCATCTCGATTTTCAAATTAACCAACACACC	ACATGAACTTCGTGAGCAGCATG
Gm14	CCCAATTTCTGGCCCTTTTGGATT	GGATAACTTGGTTCATAAGTTTGTACAAGCT
Gm14	GTGTTTGACATAATTTCTTGAGTGTCTTG	TAAGGGTGAACCACGTAAATTTCTATGTGT
Gm14	TGCTGAGAGCACCTTTAGTTTTCT	CACAATGAAAATGTCTAACTTGGCATCAAA
Gm14	TATACTACTTGTATGATTCGGTACGTCTGTC	TCAACAAAGATGGAGGCTATTTCACTTC
Gm14	CGAGTAAAACCTTTAATACTGGACTCGTCAAC	CCCAATTTTGAATAAATCATCCGTTACCTC
Gm14	GAAGTGATTTCTCTCAGCTCCGATATTT	CCAGTTTTTCACACCGACGATGTC
Gm14	ATTTTATTTTCGATTGGGCGAGAAAATGAC	GAGACGTTTCCGTGGAGGATTTT
Gm14	GAACATTTTGGAAGCTGAGTTACTTAAGGA	ACGGATTTGCTCATAGAAACGTCTTG
Gm14	GGATCTAAAATTGTGGTTTTTACTGATCATGTTG	TTAGCCATTTCAACAAACCATGGCC
Gm14	GTCCTGTAGATAGAGGAGCTGGAAG	CAGAGGAGTCCAGTTCGACTCTAG
Gm02	TAACCCTAGCTGACAGTGGCTTAA	GGTTATTTTCTCACTGACATCGGTCATG
Gm14	TTTTTCTAACTTTTCAAGAAAACGAAATGTTTTT	CATCAAAAGAAGAGCTTGCTGCATA
Gm14	GGGTGAAAGAAATAATGGGAATAATAAAACAA	GCACGAAGAAGCAGAAATCGTTACG
Gm14	GAAATCACATAGAACTCGAAATGTCATGCC	GCTCCGAGTGTTTGTTTTTCTCGTAT
Gm14	ATCTTCATCGTCAAGGACCGTTTT	AAAAGACAAGCACCAAAATGCTAACTTC
Gm15	TTCGTCTTCAATCCTGAAATTAGACATTGAT	CACGCTCTCATGTATCACCCCTTC

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm15	AGTTACAGGATCATGAAGAACACAAAAAGAG	GTTTACCTCCAACTGTGATCCAATACAA
Gm15	GGACTAGCGAAGGCTCCAC	GCTCGCAGCAGCTATTAACCTATGG
Gm15	TGATAGTCATTGAAGGCGAGTCCTAG	ACACAAACTCACCTGCCATTAC
Gm02	TCTTTCTCACTCAACACTCGCAATT	TAACCTCTTAATGATGTCAGGCAGAAAACCC
Gm15	TCGATTACACAAAAGATCAAATTCACACGA	TTTTTCAAGTTAAACAAAGTGTGTCTCTGTT
Gm15	ATTATTGTGAATAGGACATCAATAATCCACAT	AACCTGTTAATTATTCTGACAATCTCATGTCAA
Gm15	TATGGTACCTTTTCGTCACAAGTGAAGC	GGAGATTCCGCCAGGAAGTTCAGG
Gm15	ACTCCAAACCTTATTTTCTGTTACAAGGAT	AAAGCAGTTTGAATGACACATGAATACTTCT
Gm02	ATAAAATGTTCCATCAGCTTTGGAATTGAGA	ATCTTCAGTCATTGTCATGAAAGAGCTATC
Gm15	CTGCCACACAGATGAACAAATGAT	CTTTTGTGTGCTGGCTACACAAAATATTTTGC
Gm15	AATGCTTACCTAAATGGAGCACCTTT	TCATTTTGAAGTTGAGAGATATGCAGCAC
Gm15	GGGACCAAAATGCCATTCTACTCTACA	TGGAATAATGAGGATTTCAAAGAAGGGAAA
Gm15	TTGGTGTGAATCTTCTGCATGTCTA	TATGCACAAGACCAGACATTGCATAAG
Gm15	CCAACCACACCACTAGGAGAATAAAC	CCTCAAAGGCCAAGATTCATTAATTTTCATAC
Gm15	ACATACTTCATCGTGCTACATCAACTTG	AGCCTCTAGTGGAACCACTATCCA
Gm02	CCTAAGAACAGAGTCTGGCTCTGATA	CACCAAGGTGTGGATCACATCATC
Gm15	GCACTATTTGATGTGTGTATTGGGAGATA	TAGTGAATTTCAATTATGGTTCATCCCACTA
Gm15	TACTCGCTGTTTAATTTACAAAGACAAACAACC	GAATTATAGTGACTTCAAGTCAAAGGACTACTAT
Gm15	CCACTAGGTGTCTAGTAGACGTGAT	CAGCCAGCTACTATGTGTTCCAG
Gm15	AGGGTACATCTTTTGTGGCTCTTTTC	TCCATTGGGCTTTACTACTAAGTTATGAGAA
Gm15	GCTGAAATATCTTCCTTTGCTCCAGAC	CTGAGGAGATAGAAGTTATGGAAGAAGCC
Gm15	ACATTGTGGTCGTTGGACGAAAT	CCCTTAAATGCTTAACCGAGAGTCTC
Gm02	GTTAGTTGTCTTTTCGTTAATGATAACATGACAA	AACATTTTATGAACTCAACCTTCAATATTTGAAT
Gm15	TTCATCCAAGTGCAATGAAACATCGT	ATGTAAGTAATATCTCACAAGTTACAAAGACACA
Gm15	CTTGAATGGGTGAGTCCTCAGATACA	GCTCTTAAGAAATTTTCGTGCATATTTACTTGGT
Gm15	AGATAGAGGTAGTTCAAATCAGACCTCAC	TGTTTCTAGATGGCCTATGCCATTTTC
Gm15	CACACCATTTGATGGCTAAGCAT	CCCTCAGTATATCCACAGCCAAAAACT
Gm15	GAGAGCTTAACCTCTTCTTTGGTTTTTGA	TTATGATTTGATGCAATCCAAGCCATGG
Gm15	GAAATCAGAACTAGATGCTTATCTTGAGGAG	CCCACTGCATATGAGAGCTTCAA
Gm15	TGCTTGTGCTATCGAAGAAGCTC	GGAATCGATTCTCATGGTGTGTGTTGATG
Gm02	ACAATAAATCACTAAGACACTTTTCTTGTTTAGC	GTTTTTAAACACTTTCTTACGCTCTCATAAATTA
Gm16	ACAAGATAAAGGCATCTAATGCACCAC	ATCGTAGGTTAAAGCAATCTACTTTTTAGCC
Gm16	AATTCGTATGGCTTCTATGAATTACGTA	GAGAACCGGTGTTGCAGCTAG
Gm16	AAGATTTATCACAAAATAGGCTTTTGAACAAA	GGGAAACTTTTATTAAGGAGGTAAACTATAGTGG

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm16	GACTGAAAATACAAGTACCAAAAACACTCCG	AGTCTCATCACTATCTCTAAGGTGCTC
Gm02	CCCTTAGTAGCCAAACCTGTTTCAT	CCATCCTTTTCCCTCCACCACTTTTC
Gm16	GAGGAGCACAAACCCAAAAATATGTGA	CTGCACCTGATTTTCACCTACGATAG
Gm16	TGATCAAAGAACACACATTCCTTAGAATCA	CGTAGAAGAATTGGTCCAAGCAAAGG
Gm16	ACATCATGAACTATCAAACTAAGCAAAAACAGG	GTGCATGCAGAAAATGATGTGTATTTGC
Gm16	GGAACCTAGGGATCCGAAGTTGAT	CATCCCGCTCTTCCTCTATCGTATAATAA
Gm16	ATATTTGTAACCTTTAGCGAAGGGCAGATC	GTGCAAAGAAAAGGGAGAGGAATGTA
Gm16	TTTACTAGTGAGAGTGACTTGACATACTCAT	TCAACTTAATACAATCCATGTCACCACTTTA
Gm16	GAAGTGCCTTGGCGAACTATCTG	TCGTATTCAGCCATATTATTCATGCAATCAA
Gm16	CTTGCTCTACACAAATGTTTGCTCAT	AATGCTATGCAGAAATCCTGAAGGTG
Gm01	CATGCCAACATTGTATCTATGTTCCAGA	TGATGACGTTTTGTAAAGTTGAACTCCTC
Gm02	CGTCAGACTCCAAGTTCGGTAG	TACATGCTATCGGGCTTTGTGTCT
Gm16	AAGATTGGTGTCTAGGGATTTTATCAGCA	GGATTAAAGCTTAGACACATTTAGCAAACAA
Gm16	TTTTTACCAACAGGATTTAAAAGAAGAAAATGAC	GCGAAATAGAAAGAATAGAGGAGGAGACC
Gm16	TACAATCTACCAAGGTTTGTAAAGAACCAA	GTGAGAAAGTGAGGCAACAGAGTC
Gm16	ATGTGTTGTAATGGCATCTGGAGTG	AGGCCTTTGCCTTTTGAATTTCTCT
Gm16	GATACTCTTTCACGGAGGCAGAAA	ATGATCTGCAAAGCGGGTACTTG
Gm16	GAAAAACAACAAGAACCATCAGGGTTT	GACCATATGTTGGATGACTTGT'TTTCATGA
Gm02	TGAATTGGTTGACCCTAAAATTACAGCTT	ATGATGACACTCCAATATATAGCACCATAAA
Gm17	TGGAGGCTCTAGTTGAACCAGTG	TGATTCTGGTGGTTCTCAGAGTTCATAT
Gm17	TAGCTTAGTTACCAAAATTGTGAAGTCTGTT	AGGTTCAACTAAAATAGACGACAATGCAA
Gm17	CATAATCAAACCTGGAATCCTGTTCAAATGTT	GAGGTTTGATGATAAGCCAGATTATGCTTAT
Gm17	CGATATTTGTTGCCGTGCTTGAG	GTTACCCATGTATTTTCGATCATCACAATTCA
Gm02	CCACCTTGGGATCCATGTTTCTA	TTTGTACAGGATGGTACCCTCATGA
Gm17	ATGAGAAGACATGTTACTCCGCAAA	TCGTCTTCATCCATCTAAGTATGAATGCA
Gm17	CCATCGTGGACACGTACGTAAAT	GCCTATTCAAGGATTAGCATCAGTGTC
Gm17	TGTCTCTAGTAATCGGGTACAATCTCTTCG	GAAACGATTAACAATTAGTCCATGGTATGTT
Gm17	GACAGAAAAATCTTAGTCCAGCCTCAAT	GCCTAATCATTGAGAACATGCATCAACTATC
Gm17	TCAGTTTTGGGAAGAGCAGACTTTA	TATCCCTTCTTGATCTTTGCATTCTCTTGG
Gm17	TGTTTCGTGCTCTATTTTGTGGGTG	TACGTATTTCATCAACTTAAGGCACCAAG
Gm17	CATGGATAATCCGTCAACAAGTAGCG	CAAACTAAGAAGGAACATGCCCATG
Gm17	AACAAGCGTAGACAATCTGAATCCAC	GCCAATTGAAATTTCTGTTTTTCTCATAACATTT
Gm17	CATTTTGTGTTTAGCGTATTATAGAAGGTGTGT	CCCTCCTTAGCAATATGGGTGGG
Gm17	CATGATTTTCTGAGCCTATTAGCTATGACT	CTTCGCCATGGGAGCTTTAAAGC

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm17	GGATACTGGGCTTCCTTGCAAC	TGAAAACATTCATGCCTGCACATACA
Gm17	ATGTATGTGTCTGACTTCGAAAAGTACAA	TCCTTTTGGACAAAACCTTGCGATC
Gm17	AATGAATGTGCCTTGAAATACAATGCAC	ACCTTAACCAACCAATTTACTTAAGAGACA
Gm17	CTTAGGCCTTCTTTGTGATCATGGA	CACGCATAGCATAACAGATAGTAATGGTC
Gm02	GCAATTCATAAGGTTTTTCAATGTTTCGGAA	CCTTGGGACCCATTTCTTCAGC
Gm17	ACATGACAAGAAAACCTCGTACTCATGAG	GCAAAAATTATAAATTTTAAGTGGCGTGACGG
Gm17	GGTGAAGTCCACATTTGGACAAA	CCTAGTAAGGGTCTCCCTAGTTTCCA
Gm17	ATTTAACAAATGTTGTTGGCGAACAAATGT	CAGAACTATCTAATAATTTCTCGACACATACGTA
Gm17	TAGTCAATGTTAGTTAAGGTGTTTTGGCTG	AGATATCAACTGTAAGAACCTAGTCGATGTC
Gm18	AACCTGTGTTTCATGCATGTTCACT	TGAGTGATGGCAACACAAAGACAA
Gm02	ATACTTCGACAACCTTATCTTTATCGTGCATT	AGCAACTACGACCGAATTGCTTT
Gm18	GGCAAAACAAATAAGAGTGCTGGTTA	ACTTAAATGAGGGTTTACTTTAACACTGAG
Gm18	GTGTCGCTCGTATATATGATGACACTA	CACAAGTCTACACCACACAAATGAAATTAAT
Gm18	AGAAAACCAAATCACAAAACCTTGGATACTTAA	CTTAGTGACAAAGAATACTAGGGTCTCAATCT
Gm18	GGAGTGGTTGTTTGATTTTAGCTTTGAA	TGGACCATGACCAATGGGTCTAA
Gm18	GCTATAAATAGCAACATGATAGGTCAGCTTT	CTCAGAGATAATATCGAAATTCCAAACGGTG
Gm18	GCCACCTTTAGGCTTTTTGCATA	GAGGGTGTCACAGTAGAGACTAGAGG
Gm18	TCACGACTTACCTCAATCAAAATGAGAGC	TTCTATTGAATACCTAGGTCTATTTCTGGGAA
Gm18	TGGTGATGGCAGAATGTTGGAAT	TGTTAGCTATGTGATGCCAACGTTAAC
Gm18	CCTCTTATAGAGGCCTAAAACCCAACG	AGATTTGCACCATTTCTTCTCCATC
Gm18	CATAGAGGCATCCTTCCAAAACCTACAT	GTCCGAAAAGAAAGAGATGGTTTGAAAAGA
Gm02	GAGCGCATGAACAACAATGGAGG	CTAGGGAACACTGAAATGAGTCCAC
Gm18	ACCAAGATCATGATGATATTGATGATGTCAT	CAAATGAGGTTGGTCTTTACAAACATTTAG
Gm18	CCTGCTTGGGTGATTTATCTTCTGGT	ACCTTCCCAAGTCAGATATGACCAG
Gm18	GGCTTAGCACGAGTAAGTGGATT	TGACAGTTGAGCTTAACTCATCAGTTGG
Gm18	TATCGGGATGATGTGTCGGTACTTAT	CTTCACGGATTGCCTAATGATGAGTG
Gm18	CGCTTCCGTAGATTCTTTCCTTAG	GGAATGGTGGAATCTCTTTGGCTTG
Gm02	CTGATCACCTGGGTGCTTCATTG	CGGAACTCACGGATTGCTCAAA
Gm18	CCTTCTCCATGAACTGTTCCACTAACA	GAGTTGTTGGAATGTGGATGATCTGAC
Gm18	TCTCAATTTTCAGGTGAATTAGGTGAGTTTG	TGCGCTTACAGCAATTTCTGAACC
Gm18	ATGTTATTGGTCCCTAAAATATACCGAATCA	AGTGACAAATTTGTCTCTATGTCATGTAGGC
Gm18	AGTCCAATGACACACAGAGACAACT	ATCTGGATGACGAAGGTGAGACTAA
Gm18	GACGGAAAATGCTCGTAAATCCACA	CACATATGTGCACGTGGTATTTCTTAGATG
Gm18	GGCCTCCTCAAGGACTCATTTGG	GTAATAATTAAACAGGTGTTGTCTGTTCAA

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm18	AAAGACCGTATGGACAAGATGAAAATGAA	ATCACCACAAACAATGTATAAGCTCATACTA
Gm18	AAATCGCAAAACTAAACATCGCAAAAACC	GGGTATGAAACAATTTCTTTCCCTTTACG
Gm18	CTCCTAAATTCATTTCCAACAATGTCGATTT	GAAGAAGAAAACACAGTCTCTAATGCATTCA
Gm18	CCCTATAAAACCATTTGATTGACATTTGTTGTC	CTCTACTTTTTTGGATGCTTTGGAGTGG
Gm18	CTCTAGGAAGAGGAAAACCTACCACCTC	CTTCTGGATCATAGAGGTTGGCATAAAAC
Gm18	GGCTGACAATGATGTGTGCTAAGC	GCCTGACCAGGAGTCTAGTCTTCT
Gm18	ACCCAAACTTTGGATGACAAGGGG	TTTTTATATTACTCACCTTTGATCCATCTCTGAA
Gm18	AATCAATCCAAAAATCCAATCCAAGCAAG	GTGAAAGTTCAGCCAATTTTCATTAGAGAAAG
Gm18	CAAGCTTTGGTGCTTGGTTTGT	GCAGCAAAAACAATATCTCCAACGTG
Gm18	AGAAATGGACAATCACAATACAGGCTT	TCCCTGAAAGTTGAGTTTGCATCAAT
Gm18	CATGTGTTTTATAAGTTGCCATTCCACTC	CAGGATCTCAATCAGTTCTTACGTAATACAT
Gm18	CCCTTTGAACTTGAAGGGTATGAATTACAATC	CTGCAACTTAGACTACATTTGGCGA
Gm19	GGCACCTGTTTAAGAAATGCAT	ACCTTTGCCAAACACAAAGGTTTGA
Gm19	AACTGAAAGATCTTTGCTAATACAAAACAACAAT	AAGCTAAGTTGGTATTTTTTCATATTTTTGTGGTC
Gm19	CTAAACGTTAGAGAGAAGGAGAAGAGATTGA	GAATTACGAAAACATGTTGAAGCTGAGAG
Gm19	CAAGGCATTCCATTAAGCATTTGTATGAC	GTGAGACAATGAGAGACAAGAACATCAAA
Gm19	TTATAGGAAAACCAACATTCATGCCACTAA	CACAACTAGGTGAAGATTTAACAACACAAAA
Gm19	GGCACTGCACGATTGGAAGC	GGACCAGCTAGGGAACAAGTGG
Gm19	ACGTTGTGATGCTTTGACAGTCATAG	CTACACAAAGGTCACCACAGCTAC
Gm19	GTGGGAAGACATGCTTGTCTCTCG	TAGAGGAGGTGCAAGAGTAGATTAAGGC
Gm02	GGCATCATTTGGACAAAAAGAAGTACCT	CGGTGTCGAATGATAAAAACATTTCCC
Gm19	CTTTCGGATCCTAAGAGCTGCTTA	CAAAGAACTCAGAGGCAGTAGCAATG
Gm19	CAGAGTAGTGCACCCACCTATCG	TGTCAAGAAGATATCTATAGCGACGTACAG
Gm19	GCTCATGGCTTTAGTGACTGGTTT	GATGACACATCACCTCCCAGAAG
Gm19	CGGCGATGACTTTTTATATCGGTT	TTTTTCGTCCTCATAACTATAAAAAATGTTCAAAA
Gm19	TGCATCATCATTTTCATTATGGCTAATCCAG	TTTATGGGAAGTGAGCTTATGTACTTGGT
Gm02	TAGGTGATCAAATTTGCTTTAGGGTGTC	ATCAGTTTATCAAAAACCGATGTGAACAATAA
Gm19	GGTGCAAAAGAGATGAGGCATAGA	ACTCACACACTTCCTAGGACTCTTC
Gm19	CTACGACGAGGCTTCACCAAGTG	AGGAATACTCTAGACGTATCCAAGCTG
Gm19	TGGCCTCCTCAAATTTCTGTTTTTTC	AGAAGTGATGATGTTTTTGGCGTTAAGA
Gm19	GTGAGAAGAAAAATTGTGAACCAAGTCAC	GTGAAAACACGCACAAAGGTTACACC
Gm19	AAAAAGTACGCAAGACAATATGCGAT	ACCATGTCCGATAGGTCAGTCAC
Gm19	ATGCTTAACACTCTTAGATTACTTTTCGTTCTT	AGGAGACAAATTTAGTATCGCACAATGTC
Gm02	GGTATCTGTATGGAAGGACATTGATAGGG	GCCTATCCACTCTTCAACAAATCAAATTA

表 A.3 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
Gm19	TGTGTAATCCGGAACATCCATGTTG	GCGTTGATAATCATTTTAGTGACAAATTCGT
Gm19	TAGGTCAGGGTGAGGAATCATGAT	GGAGCGAAAAGAAAGTCCAACCTTTGG
Gm19	AAAATTTGCTGAACTGTTATTTCCAAATATACTC	AAAAATTGTTGGAGTCTAAGTATGAAATGAAATC
Gm19	AACACACCATATTAAGATAAGAAATGCAAAAAT	CCTCCTCCTTAGCCATTTTCCTTTTTTC
Gm19	GGATTTTGACACCATCTGAGTTTTTGTG	TGAGCGAGGAGTAAGTGGTCATG
Gm20	CTACACCTACACATTACAACAAAACAAGGG	TCTTTGAGTTACTCTTGGAATAACTTGACCA
Gm02	GATTTCAACTTTGTAATCTCCATGTGCTT	AAGAAAGGATGAAGACACAAGCAGATAAG
Gm20	GACATGGACACTTGTGTCTACGTG	CACTTGTGATCTCTGACCTATGACAAAAAA
Gm20	TATCCTCTTTGATGGTATAAGCATGAAACCA	CGATCCAATCTCCAATATACTCTTCTATGCA
Gm20	CAAGCGACATATGACAAACCTAACCT	GTTGCACAAGGTTATCAAACATATATGCCC
Gm20	CATGCATCTACGTGATCAAAGCAGA	CTTGAGATGAGTTTATGAGTGATTTTGAGGT
Gm20	GAGTTTGGAGAGGAGGAGAGTGAA	CAACTTTTGGCTGGAGGTTTCCTAA
Gm20	ATGGAGCCCTAAATACAAGATCCAAAATTAATAA	TGAGTTTCAAGAACCTTTGGATTTAAGGTC
Gm20	TGGCCGAAAAATGTTGTTGAAGAAGC	CTCAAGCCAGCACCGATATGAAT
Gm20	GGTTATCCGTACAAAGACAACATCTATTGAT	TTGAATGCTACCTGACTTCTCACAGG



A.4 棉花 MNP 标记引物

棉花 MNP 标记引物见表 A.4。

表 A.4 棉花 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D10	GAATTAAATAAGCTTCCCATCATGCCAAA	CTTTAACATATTCAAATCGACGTCCTCATA
A01	GGATAATGCACTTGAATACACTCGAACC	ACGACCCATATTTAAAGTAACCTAACGAGACA
A01	AGAAACTGAAAACAGAGCCACCATTT	AAAATGGAGGTAAACCAACATGGAGTC
A01	CATCTTGTAGCTTTAGTTCAATCCATTGCA	GTCTTATCTCCCTGAAGTTGTAACAGAGC
A01	GTCATTTAAACAACCACATAGCCCTAGTT	AATAGGAGCTATTGGTGATGATGGTTGG
A01	AATAATAACTCGGTCATTGAGATCATGCAT	CCGTGTGCCTACTGTAGGAAATTATATTG
A01	CTTACCTCACACCGTACCCAAAG	TGTCATTTTATAATAGGAGGCAAGTTTGGTT
A01	ATGAGAAATTCGAGGGAAAAATTCCAAAGG	TTTAGAACAACATTGGAGCACCAAATGA
A01	TCAAATTCAGGCCCTCAAACATCCAC	ACCACCTATACCAAGTATTTCTACTAGCTTG
A01	CAGACGTGTTTCTTGAAGAGTTGTCT	GTCTCATATTCGGCTACAATCATATCCTCC
A01	TGGCCAATTTTAGAGAAAGAGTGTGAA	CGAACATTATTGTATCCCTGGAAACTCAATT
A01	GTGGTACAAGTACCTATTTGAAGTGTATGAG	AGTGCTTCTAATGATAGCGTAATCGTAGC

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A01	CAAGATGTAGTCGCAAATGAGTTTGTAT	ATCAATATTGATGTGGCGGAGATAAAAGTAA
A01	TAGTCGTGCTTCAGTACTATCATAAGGTG	ATGCGACAGTTTAGGTGCAAACA
A01	CAAGAGCTCCTCAAGCTCATCTC	CCGATTGATATTGAATATTTTGTGGCTCAAT
A01	GTCGAGCACCACCATTTCATAC	CCACCTGCGATGTATGTTTTGTGC
A01	TATGGTGTCAATGAGGACACAATGATTAGG	GTGCTTAGACTATGTAACCTCACTGTGAATAT
A01	CGTGTGTCCAAACACACAGTTGT	CCTGGCCTGGATATACTAGCGTG
A01	CCTACTTCCATTACTGAAGCACTTCAA	CCGAATAGTCATTGGTTTGACAACAGG
A01	GAGTATAACAATAGTCCGTCTCCTAGTCAA	GGCCTACCACTCATTAATCACAAAGTAAAA
A01	AGTTATGATTCTGATTTGGGAAATCCTTGTA	AATGCATTGCATAAGGATTAAATTGTTGCT
A02	GAGGTTTAGGGACTAACTTGCAAATGAC	GGGATGAAAAGGATGATTAAAGCTCCAAAG
A02	GCCACAGTTGTCTCACCAATGTC	GGCGACTCTATATTTCTGTTTTGCAAAAGT
A02	CCCATACTTGGCCCAAATGAAGG	ACATAAGAAGCATGTCTTGAGACTTGTTG
A02	TTTTACCCTTAAACTTTTCGCATATTTACGCT	GGGTGTTAGATAAACGACTTTTGCTGAG
A02	TTTAGTAGGTGTTAAGGGAAACCATGTA	CCTGATTTAAGGTTGTCCATTCTAAGAGAAG
A02	GAAAGGTGTTTAGGTCTTTTAAATGTACGCT	CAGTGTAGCTCACTGAGTTAGGTCA
A02	CCCTGAAGACCCTGAAATTGAAAGGA	GCAATTTTCAAAGAAATGGCCATCTCTATAG
A02	CTTGTTAGTGTATATGGCAGCAAAACCA	AGAAGCATCATAGATACATCTTGGACACTAT
A02	CACACACCAAGTATTTTAGTAAACGCTC	CGCTGCAGAACATGTTTTTAAATGAATAAAA
A02	AGAAACATGTTACAATTCTCAGACAGACAA	TTCCCTTTTCAAGTTCTGATTTCTGTTTTCT
A02	TTCAATATTGAAGGAGGAACATCACCTTTA	AGCTTAAGATTTTCATTGCGTTTGGTC
A02	CGATGTCAGACAATTGGCCAAT	AGGGAACAGAATGATTGCTTCTTACTTA
A02	GGGATAGAGGATCCCTTTGACAGA	GTTGATGGCGCATGAGCTTTTAC
A02	GCACTTTTGTATGTTTCAGTCAAGTTTTC	CATTTGATTATGTAGACCAAAATGCCCATG
A02	GGATCGATTGAGCATCGAGTTAATGAT	TTAAGAATAAAAACGTACCCATGATGACAT
A02	GCTAGTAAGGATACCAATGTGGAAATGGG	ACCCAAAGCCTTATGAAGGTTTCCC
A02	CACTGCGGGTGAAGTATCCTACT	CTTTAACAAAGAGGCTAATGAGGGAGAAG
A02	CAACTACCAACACAATGCATTATTTTTGT	TTTCGGTGTACTTGTTAGTTTACTTACCAAT
A02	CACTCCTCCAAATGGTAAAGAATCACAT	TTCAAAACGTTCTGGTTGAGTTTTTAAAGTA
A03	GGGTAAATTTGCTTTTTGAATACCTTTTGGA	CTCAATGCCGTTATGGATGATCATGG
A03	GATCCGATTCACTTAAATCAAGTCCTTCAA	CAAATTAAACCGTTTACCATTCCAACATT
A03	CCCTTGTGCCTTATCAATACAATTTTCCA	GTATTGATGGTTATCCGACATTGTTCTTTCA
A03	CATATTAGATTACACGGACACTATTGTCAA	ATTCTGTTAAACACTAACGGAAACTGTTA
A03	GCTGGATCATCTGTCTGTCAAAAGAAAA	GGAGCAATGGTCGTGCAGAATAG
A03	CTCAGATTTCCACACTCCCGTATG	GGTTAACGAGTTTATACGGAATTGATGGTAA

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A03	TCGATCATTCGCTTGGTTACCAAC	CTTACCTCAAGGACAAAATAGCCCAAC
A03	CAAACACTCGAGGCAAATCTAAAATCAC	GCTCGATAATTGAAAAGAACCAATCCTACG
A03	CCTTTGAATCTCAAGCAATCATCTGAGT	GAGTTAGTGATTGACTATCATCTGGGAAAAG
A03	GTGGGTCCAATTAAGGGATATTTTGAATGA	GCATAGAGGTCATATGGCCTTTGTGG
A03	ATTCTTCTACTCTGCCACGCATTA	CTTTACCGTTGTGGGAGTTTTGACT
A03	CCGAAGCATAACTGCACACTCAC	AGGGCTCGACAAAACAGAAAGTAGA
A03	TCGATGTTGAAGTTAAACTCATTTGGGAA	GCCAATTAACTCGAGCTCTTTGCTC
A03	ATCTGAATTAAGTTGAAAGGGATGAT	GAAAATAAGATCGTATGACACCCTCCATTT
A03	TCTTTCTATTTGGTGGGTGAACGATG	GGTATCAAACGTAATTGGTGATCTCAAACC
A03	CCTGAATCACCCATTTGTCTCTGTC	TGATAATAACCTAGCAGAGCTGATCGAC
A03	GGTTAAATCGGGCTTAAGGAAGCTC	GATTGGTCAAAATTGTTGAAACATCGTTGA
A03	GAATCAAATCTTACCGGTAAAAGTACCATGG	AAAAATGGGCAAATTAGTCTCTATACGGAT
A04	GGTTTAAATACTAGTGCTTCTCCTCCTTA	GGGTGATAGAGACAATAAAGGGTTGAGA
A04	ATAGGTGGACCACACGACCAAGTG	AAGGACTAAACTGAACAATTCACAGAATTTG
A04	AAACTTGTGCATACTTTTCGTTTTACTCCCTAA	AGATTTATGAGCTTGGTTGTAAATCCATTG
A04	GGTCGGGATGATTTTGTGTGGC	GCAAGATTGCCAGAGAATAACATTAGAGAAA
A04	GCTTGTTCCAAATATCTTAGCCATAGGAC	GGTTCTTTCTAATTGAAAAACGCTTATGGTA
A04	CCCTTAAGGGTTGGTAGTAAATCTGGT	CAGCAAAAACATGACCTTAAAAATTAGGACAA
A04	CGCTTCGATTAATCACATTCTGAATCGG	TGGTCAATCTCAAAAGCACACAAAATATGC
A04	CTTGAGTAACCACAACCTCCACAATCA	AGGCTAGTGTTGGAAAAGGACAGG
A04	CTAAGGCCGACTTTTGTCCCTAC	ATTCTACTCTAGGAGGAATGTTTTTATGCGG
A04	TCAAGTGGTGTTCCCTCTAAAGCA	GGTGGACTCAGATGAGCTATTCCC
A04	GCCTATCATTACCATTCAATTAAAGCCCAA	CCGATGAAGCAAGGGATTTCAAAATCA
A04	GTATGATGTGAGTGACTCAAAATATTGTGCT	GGAGAGGAAAAGAAGAAATTTGAGAGCAAA
A04	CTTAGGTAGCTTTAGGGTTTTTGTGTTTGT	CCCGAATTAACAAAATCAGAATTGCCTTAAG
A04	TCCCAAATTTGTTTCTAACTTGTGATTTGGG	AAAGAAGTTGTGGTTTCCACTATGGTT
A05	CAGAGTCTACTAAGATGATAGCCCAAGTG	CTTCAATTTGGCCCATTTTTGCTCG
A05	GAATAAGTGTTGAGTGCGGTACTCAT	TCTCTTGGAAGCCTCTCCACATG
A05	GTTAGCTAGAGTTTTGTGATCAGAGCAA	CATTGACCTAAGCCAATGAGTGACAA
A05	TGAATGCATTAGACAAGCATTAGGCAA	AGTGGACTCAGCCAATGGGATAG
A05	AAGCATTAGGAAAGAGGGATGAAAACAC	CGTTTCAAACAAAAATGGTGTCACAATCA
A05	CATCCAATCTTTACTCGCTCCTATATTGAT	CATAGAGTCTGAAAAGAGGGTTGTTTTTT
A05	GTGAACAGCTTTGACGTGAATATAGGTAA	GGAGTTATTGTAGAAAAGCACATTTCTCCTAA
A05	AAGATCAATGCTCAGAATGAATGTTATCCT	CTAAACCCAGCTGCAAAATGTTTTCAA

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A05	ATTTTCTCCATATGAAGCAATCATTGCAAAC	CCACTTTTCATTGTGATGTCGTTTTGTG
A05	CATTTTTCAGGAACAAAGACCCGAAA	GTTGTGTCTCATGAATACGGTATTGCA
A05	CCCGTATGAGCTAACC AAAATTTAGCTT	GGTTTCGACTTTTCCAATCTTTGAATTTTCA
A05	CACCTTTTCAAAAAGCCTGCCATTC	CAAACGTATGCTCAATAAGCATCATCGC
A05	TAATAAAGGTAATTTTGTCCCGTGGTGATT	GAAAGTCAAATTTAGAAGTGCCCTCCTATT
A05	TAGCATATATGCGCGTATATATTGTGATTCTC	CACCCTCAAGGTATTTGCATCTGATC
A05	TATGCCAACCCTATGGCTAATATTTGGT	GAGTACGGTAGGGTAACTAGCATATTTTTT
A05	AACGATAACTACACTGATCCAAATGAGT	ATCGATTTTGTCTTCTTCTTCTACATCCTA
A05	CCTGTGTGACCCAGTTACATGGC	CATGTTCCCTTATTCGAGCTTTCTTGACC
A05	TAGCTCAATTGTAGAGGATAAAGCTCCTT	GTTGATCTTCGATGCTGAACTGT
A05	CTTGAGCGACGTCCTTCTCATTC	GTTTAGCGAAACGCCGTCAATTT
A05	CCACGTGTGAAGTCGAAAACATT	GCATTCATCGTCATTATGTTAGATAAGGCAT
A05	CTTGACATCAGCAGAATGTTTGAA	CCCTTCAAATCGTTTACACATATCAGCC
A05	TAGTGAGAAAAATGGCAGACGTGTTT	GACGTCCTTTCAATGAAGGAACCTT
A05	CATTCGCCAATATCCACCTCACTT	AATCTTGACATATAAAGCTCCCACTTATG
A05	TAACAAAACCTTCTTCTTAAGCCTCTTCATT	AAACTTTCAAGATGAAGCTCAAAGAGGATAT
A05	GTTTAATTTGTACCTTTTTTCTGACGCAAT	AACGAAGAAACCGTGACACTGTAG
A05	GAAGAGGGCTAATGCTAATTTGGAGAT	GATACAAAAGGAGTTCCGACTACATCTATTT
A05	CTCACGCCCATTTTTATCTCGAATGA	CTCTTCGTACAGACTTGATGTGTATAACTTT
A05	TTACTTAGCCAGGCCCTTCTTAATTTGGC	GCAAACAAAATACAATCGGCCCTTAAATATA
A05	ACTTCACTTGAACAAGGATAGTCCATGC	CTAATTCTCAGGAATTAGTTTGCCGTAACG
A06	CCAAAATCTGTATTCCAGAGAGGCTTG	TGTGATCATCAAACAATAATGCATAGGTCTT
A06	GACCTGAACTTGACAAGTGTTACCAC	GACAATTGTTTCCACATTGAAGTCTAAACTA
A06	ATTAACATAAGAATGGCAATGGAGTGAGAT	CAAAATTCATAAAGCTTGCAGTTGTTCAAG
A06	GGGAAACAACCTATTTTACGAAATATGAGGT	CCCACTCTCATTTTCTTCTTCTTTTCTTT
A06	CAACTAGACCCAATTTTGGCCTATTACATAA	GAGGTGTCCACATTTTGGTTACTTTGT
A06	AGATTTCGTCCACTATAATGCAAGACTTTG	CTGTCAAGTGGCTTGATTTTCAAGGT
A06	TCAAAATTCCTCTAGCTCATTAAGCTGGAGC	TAGCAAACAAGGAGATCAAAAGCATACTT
A06	CCCTAACGCCATTTAAGAAAGATTTAGTGT	CTCTGACTGGCCATCTATTTGAGGA
A06	AGAAGACAATGAATAGTGCAGCCTTTT	CGTGGGTCTACATACACGGGATT
A06	CTAGGGTTACTATTTTGGTTGAGATCCTACA	CCCGTTGAACCTATTAGAATATCGAGGAA
A06	TCAGAAACAAAAGGAATTCCTCAAGCTT	CCACTGACTCGGCTTTCTTCTTTTC
A06	GTAAACTTCAAACCATGGCGATATTACGA	CCTGTCTCAGCTGTAGGTGAAGC
A06	CCATCACATCTTTAACGATTTTCATTCAGCT	AACATGGTCATACATCGGATTTATCATCAT

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A06	ACACAAAAAGAACTATCTGACGCACTAT	ATCGTACAAGAGCAAACAGAGATTTTTTGG
A06	TCGTGTGAAAATATGACTAAAACATCCCTA	TTTGTGAAGTGTACCTCGTCTTTTGAA
A06	GGTCCTTTCTATTCCTGGGACGAATAT	CATTTGGTCTGACTAAGCATAAGGTGAAT
A06	CATCACTATTTTATCAGGGTGGCTCATC	AGTGGACAACGGTCACATGAAGG
A06	AAAATAATCTACACCAATCAGTGTACGACTA	TGGTAGGCTTTAACAAGAAGGCATTG
A06	ATGGAAGAGTGGCCAAACTTGAG	CGTAGCCAACACCTCATTACACAAAAG
A06	CCAGCAGACGTTCCCTTTGTTTGT	CTTTGGTGTGTACGTGCTTGAAGA
A06	TGGAACGCTTGTGGTCTATTCGC	AGACATTCGTGTGGTTTACCCATG
A06	CAAATTAATAATGCCACTTATCAACCTCCTT	CAATGTAGGTTCCCTTGGCTTGATCATATT
A06	GGATTTTTTGGGTGGGAGATGATGA	TTCACCTGTGATCAAAAAGTCAAAAAGA
A06	TGGTAACCGTGTAGAAATTAGAGTCACAA	CCCTATTTAAGATTGGTTTTTGGTGACTTGC
A06	AGGGATTGAATTTCCCGGTTCAAA	CAGGTTAGGATGTGTTCTTATGTAAGACGG
A06	CACGGGACTCGATCAAGCTTTTAT	CAAACACAATTCAAGTGTGACAAAACCT
A06	AAACAAGTTCGGATATTGACTTCTTATGGTT	CCACCCTAATTGGAAAAGATTTCATGATGTAT
A06	TTGAGAGGGAGCTAAATTTGAAACTTTCTT	TCACCGTATTGGATCAAGATTGGACC
A06	CCCGCAAAATTCGGATGATAAGAA	TCGCACATGCAGCGATCTG
A06	TACGATAACTCGAGAGCTGAGTGAT	TACTTTTACCTCATGCGTACATACACAAAAG
A06	TATGTTTTGAAGTTGGCTTTCACATTTCAAA	GCCAGCCCATGTAACAATTGAAATATCT
A06	TGCACTTTAAGTTTCGTATGACATTGATAGTT	CCTCCTTAGATGAATGAAAATTGTGCATTTA
A06	ATTTTTTCACAATTTTCCATTTCAAGGGTTTTGT	CAAGTTCAACTTGACACTGACCAAGC
A06	GTGAAGTCAGTTCCTTAATAGTTGAAGGTA	CCCAACAATCAAAGATATGGTATCACTTTCC
A07	TTGCGTTCACAGAAGAGGCTAAG	GTTCCCATATGTCAAGCATAGTCCTACA
A07	GACCTGACCTCCTCTGTTTGATC	AGAGTGGTTTAAACTGAATACGGATGATGC
A07	ATAAGGTGGAGCGGACAGTAGAG	CATGTCCAATTATCACTCTACTTAAGCCTAT
A07	CAGATACACATGACACAATCATACTCTGAA	CATGTCACACAGGCGTGTAGATT
A07	TCGAATGGCCAAATTTGAAAGAGAAAAGA	AAGCTAGGATCAGCGTGTTTTGTAG
A07	CTACCTATAGAACTAGCTGGTCAACTTGG	TGAGTCCAGAGGTACTTACTTATTGTAGCC
A07	TGTTTTTGTATACCTCCCACTTGGATTG	TCCTTTAAGACAATACTTGGTTATTGCACTC
A07	CAGAGAATGAGCTTCAGCTCTCATG	CGGATCATGGGAATAATTTCGTGAATGTG
A07	AAACAAGAGAGGATTGACTGGCAAA	CCCTAGTTCCAAAATGGTGTTTGCA
A07	CAAAACATCATCAACTCACACACATTTTCAT	AAATTGTTGTAGTTGTTTTGATGGTTGGATA
A07	AGCTCACCTAAAGTTGCAACAAAACC	TTTCGCTACCAAGCTTGCTTTGTC
A07	CCAAAAACATGTTGGCGGATACTT	TAACAACCTGGAGCAAGAACACTATGT
A07	TAAAGTTGCAAAGTGAGTTCTCAGATATGTC	CTCTTAGCCAAGGTGCTTAGCTTAC

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A07	GCATAACCTCTAGTTCATTCATTTGGTCA	GTTGGTCCCGAATGATTTCTAATGTGT
A07	TGTTGTACTGTGCAATGCGGTAG	GCACATATTTGTTCTGTTTGACTGTCTGA
A07	CAAAAACCTCCATACCTATTCACCTAATA	TAGCTTCTTCTGCCTTTGATATTCATAGCA
A07	CCCAAAATTTTCTTTCTCAACTCTTTCTTA	GAGGACAGTTTGATGATTCATGTTTC
A07	TGAAGGTTGCAGATCTTATCTCCCTG	CCCAGTCCAAAATTTGTCTATTACAGCTAC
A07	ACATGCTCATGTCATAGACTGTATGGA	AATGAATTTGAAGTCAAAATGCTCCACAC
A07	CCCATATTTGGCCAATAGCACCAT	CGATACCCAAAAGTGGATATCACGATTCT
A07	TTGGTTCGATTAACGCCTAAGACTTT	CGTGTCCAACCTAGATCCAACCTAAGG
A07	CTTCAACAAGCATTATTGGCACACTT	CTCTCATAGGTACTAAAGCCTCCAAGAG
A07	TCGTAACCTTATCGGGCATTAGGAGAC	ACTAGCACTCTAGCGGACATACAG
A07	CAGAGAGGGTTTCGCAACACTAA	GCTGTGTTTTGATTTGGGTAATGTGTTG
A08	GCTTTGGATGCAGGTTTCATAGAGT	CCAATTACTACACCATCAAAGTTGAACTGAA
A08	TGGTTTTATGGAGAATAGGGTTGATTCGA	TAGTTGGTGTCGGAAATTTAATCATGTCAT
A08	ACGAATGGGAGTCATGTACATGCA	CCTACTCGAACCTCTAACAATCGAATGT
A08	GGAGGATAATGCACTTCAACATACTTGAATT	GTTGAATTAAGATTTACGTAGCCTGACCTAA
A08	CCCTCTGCTCTCCCAATTTCTCC	CGAATTCGTTTTTTCGAAAACGGAGAC
A08	AGGCTCGTAATAGGGAACAATATGAATGA	CGATTTCTTATCAGTTGGAGCTACCTCTAG
A08	ATTCATAGAGGTAGGAGCCAGTCATT	ACGTCTCTTCTTCAATTTACTTTTGTATCTT
A08	CGAGGCCTTTGCAACATTTTAGAA	AGTTACATGGGCTGGCACATAGG
A08	ATAGGAAGCTCTAGGTATGAGGTTACATTTT	TCAAACCTATCTCGGGTCACTTTACTTTTTTC
A08	CCCTGATCTAGATTTGAACTTTGTTTTTCTT	CCTAGTCTCGGGAACGGGTAAAG
A08	AGAAAAATGACACTTTGAGGTTGTGTACTA	CGATCCAAATATGGTTGAAACACTCTATTCA
A08	AGAAAAAGAAATTGAAATGACAGTGGCAAT	CCGGGTGTAGGGTGTACAAACA
A08	GTAGATGGGTGGTGCTGCTTAAG	CCCAAAATCAGCAAACCACCATTTTC
A08	ACGAAAGTGGTTTTTCGAGTTTTGAAAC	CATTTCCATATTGGCTATCCGACTCTT
A08	TTTTTGGCAACACTTCAATGTCAAATCTT	TAGGGTAACTTTGAAAACAACCTGAAGGTAGA
A08	CCCGAACCACCTACATTGTATGTT	CTTGTAATCCCGTAAAAGAATCAAAGTGACC
A08	CACACAGACACATTTTCAGATCAGAAAC	GCTCTATTTTAGTACAATTTGGGAAGTGAGTT
A08	GGTTTGGTTTTTCGATTGTATCGCTA	CGGCCATTACACGAAAGTATCATGC
A08	TACTTAGGAGAGCATTTGGGAGAAGAA	TCAATCTTGGAGGAAATCTACTTCAGAGTAG
A08	CCGAATACCTCATACTCCTTTCTCTTT	AAGTGAGCAACTTACTGAAATGTAGAACTA
A08	TTCAACACTACTCCTCTTTAGTCAAATGT	GAGATAGTAGAATGGCGAAAGTATGGTTCC
A08	GAATGCAAATGGTTTTAATTTGGAAGCAA	CGTCCAAAACCGTGATAGTATTTTCTAACTA
A08	TGTGTTTAGGGCCTATTTAGGACCTT	TCGCCAAATAAGTGGTGTCTCTAAAATTT

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A08	CAAAGTAATAGACCAAAGATTGGAAATGCTA	TCTAGTTGTGCTTGGGCACTTATCG
A08	ACACATATCAGATAATCTTTTGGTGGACAAG	CCCTCTGTTGCAGATCTTGCAATA
A08	AACAATTACGAAGCACTCAAAGAACTCT	CTAACTCTATGGTAGGTGTATCTGCAGTAG
A08	CCACGCTCGTGACCAATCTAATA	CGTGGTGAAATTGCACCTTGATTTCC
A08	CCATACCTTCTAGACTTTCACTTAACTACT	AGACCTTAGTCTACCCATTCTTACATTTAT
A08	GCCTCCACAGTTGCTACAAAGC	GGAAGAATTGCACTATAATCTGCAGGTTC
A08	CAGTACCACAAAACCTTCAGTAGTTGCT	CCGTCTAAGAAATGAGATAGATTGTATGGG
A08	GAATACAGAGTGCTGAGAAATTCCATTTGC	TCTGGCGGATACTCCAAAGTTGG
A08	AACAAAAGCCAAAATTCATCTTTAACCGAA	CATCAATGGCAACTCACAAATTCACAA
A08	ATGTGTTTTGAGTGTTTTGGTCATAAGATGG	GTGTGCTAGCCTGTGTAACCTACT
A08	CACCCGAAAAACCTCCTACCTAG	ACTCGAGCCCATTTTCCATTATAAATGTAAT
A08	AATCGAATTTCCATCCAGGGTCTTT	TCCATAGCCTCTAACCAGTACTAACTAAGA
A08	GCCAAAAATAGAGAAAATGGGCCAAAATAAG	CCCTTTTTCCGTCTCCCTTTTTCTTTC
A08	GGACAATGTAAACAACAATATCATATGGCAT	GTTTTGGGCTCGAGGGTTCATATAAA
A08	GCCTACATCGCGAAAAATAGTTAGTTTTA	CAGTCCAGTTCTTGCCAAGGAAG
A08	CCAATTCTTCAAATAGAAGAATATCGCCAT	TCAAATAAATGCCGAAATTTTTGCGA
A08	CCTATAGAGACAAAATATACCAAACCGGTAG	ACGCGTTTAGGGTTACGTAGAATTTAGT
A08	CTGGCTTTTGAGGGAGTTAAGCT	ACCACCACAATATCATACACCATCTAGTAA
A09	CCATCTCGAATTCGCATACTTACCTT	GTTACTACGTTAACC GGGAATCTTTTCG
A09	AGAAATCGAGAAGTGTAAGTTGTCTAGATTT	TAGGGTTCAGCCAAAGTAGAGAGAAA
A09	CTTCTTCCTCCTCCTATTCTTCCTCAT	TCTGAGTTGTTTCAGGGTCCATATATAACATA
A09	GGAATTCTGAGTAGTTGGTAGTTGCTG	CCCTCTATCAGAAACCATCTATGGAACAA
A09	CTAGTGATTAATCAGTGGAACCTTCGTGTT	CCTTTTTGCCTTTTGCTGAAACCTC
A09	AAAGAGAAAAAGTACCAGTAATCACATCCAG	GGCCAAAAGCAATAGTAAAGCCTG
A09	CCTTTTCCTTG TAGATCGTTACCTTG TAG	ACATGGAAATATAGCATATCATGCCGAAC
A09	AATCATAATCAAGCCATAACTTGACACAGAA	TGTTTTGGGCATACGACCATGTT
A09	GTTGGGTGAACTCAAGTTTATTTGAATTTGGT	GCCTCACACATGACCTATCACACG
A09	TCAATCATTAAGGTGAAAAAGAGACTGAGTG	TTGCAATTATAGTCGAATGCACATTCTT
A09	AAAATTGACAATACCAAAGTCCGAATTGAGC	AAATCCCGGTAGTGTTCATTTCAGTAAAGT
A09	TGTTTTAATGTCTCGTAGGACCTTACATGG	AAGTGGAGGAGTTTGAATGCAATTTTAAGG
A09	CCCAAGTTCTAGAAAACGTACTAGCTA	GCCGCTTAGGCTCGTTTAAAAGG
A09	GGGTGCAGAGTTCAAACAATCCA	CCCTGCCACGAAAATTTAGCTATAATATTTT
A09	GGTTCGACCACAACAGGGATTTA	CAGATCTAGTAATCGTTCTGAAGGGTAAGT
A09	GAAGAACCTTAAAATGCACAATAACACAC	TATGGCGTATGCATCAAGGGTTTTTATT

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A09	GCTCAAGATGTTCAATGCAAATATCAAGAA	ACAGTTTGGTTAACAAATGATGGAAATGTAA
A09	GGAATCATGCATATAATTGGTATTTGGCAT	AAAGGAAACTATACGAACATTGCTAAGTCAA
A09	TGGAGAAAAGATTAATAGCTCTCATCCTTTA	ACATGTATGTCGTGGAGATTTACCA
A09	CCGACAGTTTGCTTCAGTTGTGG	CTTTCAACAATCAAATGCACAAATCTGGA
A09	GTTCAGGACCAACGTTGTGATGT	GATTGTTTGGAGCAATTGAAATAGGTATCAA
A09	ATTTGTTTGGAGCTAACTATCCTCAACAA	CATAGTTGCTCACAAGAGCCTTG TAG
A09	TTTTTCTGTTTTTAAAGTCCGAATCCGATT	AAAATTATATGGTCGCCAAAATCCAAACATG
A10	CAAATTAGTTCGTGGACGTTAATTCATGTA	CCCATACCTAGCTGCAAAAAGTTGAATAA
A10	GAAACTTCAAGTTTATATTGGACATGGGTTG	CATTTAGTAGCCATGCAAATTCAGTATTGAT
A10	CGTTTTATGAAAACGGAGACTCAAAAATGC	AAAGAAGAATCCATTCTAGGACAAATGGAAG
A10	GGACTCGACAGCCATCGCTATATAT	GAAGGTGGATTAGGATTCAGAGACTTGG
A10	TCGAAATAGACCTAAGGCTAGCCATT	GATCCCTTCTGTGGACATATCTCGC
A10	TCTAGTGGACAATACAGTAGGTTACTCACT	AGCCTTGACTTTATCTAGGTCGATCTTAA
A10	CAGTACTACAAGCGAAATAGGTGTACTATA	AAGTGTA AAAACACCTACCAATAAGTCTGTA
A10	AGTTTCGAGGACTGTCTAAGTAATATCCTG	CTTGT CATGTTTACAAAACAAAAGACACACC
A10	CAGTGGGAACTGGTGTTACTTTCTT	AAAGATGAAGCTCACACCTTCAACTG
A10	CAATTCATACTCAATCAATTGGAGGACTCTA	TTCAGCAGTGGTTAACGGATTCTAATC
A10	GATTTTTATTTGTGACTGTGACACAAGTAGCT	GCTAACACTTTGCCTTCTTGCATAAGC
A10	CTTGAGCTCCAAGAGTAAGAAATCGAA	GGCAAGTATACTAACAATGTTGTTGTTTGAT
A10	CCCTTTTTCCCTATGGATTCAAATCACC	GGCACTCAAGAGGGGCTTATAACACG
A10	CTTTTTGAAAGTTGAGTGGCTGAAATGAA	GCGTATTTCCAACAACAAGCAAATTTTTT
A10	GTGCTTGGGAGATTGATTTTTGATAATGTT	TCCTCTAGAAGGATGAAAAGTTTTTCCAATA
A10	GTTCGAGCTGGTTATCGATTGTTTGA	ACTAAACCATGAAACCCAACATTATGGTAA
A10	CCAACTTATGTAATGAGTAATCTGTCTGGAT	GCTTTACTAGTGGCCTGGATTGAAATAGG
A10	GCAGGCATCATCTTCAACTCTCTA	TACTCTTTCTTAGGGTACAGGAAACGTC
A10	GGGCTGTTGATGCTTTTACCTATTGG	ACTTCAACAATGGAAAACTAAAACAAGCAT
A10	CGAAGATAACCCTGGGACTCAAACCT	CATCATCCTCAGGGTTGGGATTTCT
A10	GATTTTCTCCTCCGTCTACTTTGAATACAT	CATCCTTTAGGCTCTCAACTTGATCTTTC
A10	CCCAAGAGTGTTGAGAACGAGTG	GTGCTTCTTTGTCTTCTCTGATAGAGTAAGT
A10	CAATAGCCCAAAGACAAACAAATACAGATCC	TCAGGCCCTTTTTATAGCCAAAATAGAAAA
A11	CAATTAGGCATTAATATCGCCAAGCAAT	CTGACAACTTCCTATTTTGAATGATGCA
A11	AAAAACGCAACAGGGAATCTAATTTCTC	GTTACTTCAAACAAAACAGTGAACCTCAAAT
A11	CTACCATGAATATTGGTTGTTGCTGTTCTG	TTAGTGAAGAACGAACAAAACAAAACAAGTA
A11	CAAACACGACCCTCTGAACCATAT	CACGAAACAACTATGGACTCCAAAATTTAAC

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A11	ATGAGCAAAAATTAGAGCAAGTTTCAGGA	TCGACTTTAATGATATTTTTCGAGTCGTTTT
A11	GCCCTTACTGCAAACCAGTCTTG	CGTTGGATCGAGCTTCTGAAAAATTATGA
A11	GATTTCTAGGGTGTGAGCAGTTATTGTT	CCAAATTCTAAGTAGAGGTACCCAATCAAAA
A11	AGGCTCAACAAGACAGAGAGTTCG	TAGCTATTGAATTGCACCGGTAGTTTAAAA
A11	TCCACTCTTTTCCTTAAACTTGCTTTCAT	GATCCACCATACCAATTATCAATTTGTTCGC
A11	GAACCAACTTCATCACAACTTTTCTTTCTT	CAAGTGATATCAAAGCTAGACTTCAGACATA
A11	ACCCAAGTAGCTATTACTATAGATCAGCATT	CTTGTCAGGTGAAAAAGTGGTTTACATTTG
A11	TCATGGTCGTGTTTGCTCTGAAG	CAGACTCCTATCATCGAATAAGCTCAGT
A11	TGACTTCTCTGGTAACATTTCCATGTGA	TTCTCAGCCTTGTGATTACGCTAAAG
A11	TTCCGTCCAAACCGTACACTTTT	GATTGAAATAGGGTCGGAGGAGAAAAATTG
A11	TAACCGTGGGATATATGTCGGAAGT	AAGTAAGGTTGTGTACTCCTCCATAGTA
A11	GTGATGTGCACCAATGCAGATGG	GCGGTAGGCAAGTATTATATTAGCATACTCG
A11	GAAGTATTCTAGCTTTCCAAACGCCTAA	CGTAACAGACTGCAAAGTTGGGAG
A11	AATTGAATTTTACTCGACCTTCATATCCTA	GCTCTTGTTCTATGAACCTTATATTCGACTT
A11	TACGAGAATATGATCTCAAAGGACCCTTC	TAATGTGACGTGCCTTCATAACTTATGTT
A11	CATGGCGTCGTATAGGGTGTTTT	GAGCTTGGGCCTACCCATTAAAG
A11	CTTATACATGAAAGGGTTGGTCTGAAGTG	ATTTGCAATATGCCAAACAAGTGTGATA
A11	GGCTTAAACCAGGCCTTGAAGAA	AAGTATCTTCCAACCTTGTGTAGTAAGC
A12	TTCTCTCTTTTTTCGGCTATAAAAAGCCAA	TTTAACTCCGATTTTCGACAAAGCAAAGG
A12	CCTTTTCCACCCTCTAGTCCATCA	ATTTATAGAGTGGAGTATGAATCCCTTCCAA
A12	CATGAGTTTTTAATGTCCCAATTTAGTGCTT	AACATTGAACAATTGATGACATAATGGCAAC
A12	GTTATAACACATGGTGAATTGACTTTGGTTC	AACAATACCCAAAGGGTGCAAGTATT
A12	AGCCATGGAGCCAAATGTGTAGG	GTAGTAAGGGAATAGTGGAAAAGGTTGTTC
A12	CGCCGAACCTGTAGTACTTCTGC	CCAGATTAGGCATACTGCCATAATGG
A12	GAGAAGCGAAGGTTTCATCTCACAT	CAAAAGAGAGGACATGGTCATGTATAGGG
A12	GTCTTATCCAAAATTGCTGCAATAGCTT	CGAGAATGAAAACCACCACCTTTGG
A12	GGGTTTGACAAGTGTCTTATAGGGAT	GGGATGTTACAATGACATTATCATTTGCCA
A12	CTTTGATAGGCTGGTGTAACTATTGAG	AGGTTTTCATATTTGAAAGGTAGCCAGATTT
A12	AATGCTCAAAATTACGAATCTAGGTGAGAAT	TCTTCTTCCCATTTTGTGGTTTCTCATTTG
A12	CATCGTGAAGTTGAGTTTGGGATTAAGC	TAAGCTCCTCAAAATTGGTCTGAATAGATCA
A12	CAGGTTCAATATTGGGCATCAACTCA	CCACCGATATGTAGTGTCAATTAAACGAGA
A12	CCAAGTGCTGGCCAGCATAATAG	ATGATCCCTACAGGCATAGGAACATAA
A12	GAAGGGTTTACCTTGCGAGCTAG	AAACCATTGCATCTGGTTTAAACGGC
A12	GTCTGTAAATAGTATCTGCCCAAGATCAA	AACTTACACCTTCACTACTCTGTTGACT

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A12	ACATGCCGAAGTCTTCGAATTATCCG	AAAAGAGGGTCAGTTTCACACCTTAATG
A12	TTAGACTTGCGTTGCCACATCTC	GATGTTAAATAGCTAAGCTTAGTCCCAGATC
A12	CTTTATTTGATGTCTTAGCTATCCCTTCCAG	TTGTTAACCGGTTAACAACACCCAAA
A12	GCCTCAACTGACAAAACCTTAGGTT	ACCCACTTTACATTCGTCTCCTACTC
A12	ATTTTTGTGTGTTTCAAATCTTGATCCGAG	CAAAAAGATTGGTGGTGACTACCTTGT
A12	TGTACGTTTTATGCCCTTTTGAGACTC	CACAGTAGTAGTGTAAGTGGGAGTTTGG
A12	GTGTAGTCACACTGTAAAGTTTGTTAATCGG	AAAATGAGCCCAGGCCATAATA
A12	CAAAGAAAGAAAAGGAGCCTAACATCGA	GTGGAGATTGGGCTCACATCAAA
A12	AGGTGGGTAAGGAGAAGAAGGTG	TGTTTGTATCGTTGCCACCCATTAT
A12	CGACGGTGAGTGTTTGGCTAATC	CCCGAAACGAGTGAAGGTAGAAGA
A13	CGATCAAATCTCTTTATAAAGATCCGGATGAC	CTCCTTCTCCTCAGGCCAACG
A13	CGTTGATCCAGACAAATAATATGGGTGT	CCTAATGCCAAAGCCTTAAATCAAAATAGAT
A13	TAATGTGAAATGAATGTAAGGCCAGTCATTG	CTATTCGTTGCCGGAATAGGGTAC
A13	TTTTTACCTTGAACCTGAACCTTAA	AAACCATAAATCCTAAACCTCGAACTCAAA
A13	TGGATCGAAGATCTATCTTTGAAAAGACGG	TGAATTAAGTTCGTTAACACCTTCTGCTC
A13	CAAACCTCCACAAGCTGTCAAAA	GAATTATGAAACGTGAGTTTGATTCGGATAA
A13	CTTTATTGCATTGGTGGAGGTTGATAAGA	GGTGAGTGAAGAAAATGACAATAATCGATTC
A13	CAAAGAGCCTATAGACTGTCGTCAC	GAGTACGGAGGAAATTACCTTAATGGGG
A13	TTTGAATTTGGCAATCGTTCATTTGCT	TCTCAGGCATGCTTACATCATCCC
A13	TTTTTATGGAAGACTTTGCATACTCAGAGAT	CCATGGTGATTCTTTCTCACTTCCATTCT
A13	CAATGCATGTACAAGCATGAAACATGAA	GTCAATGAGACCACCAAGTCTTATAATGAAT
A13	AACTAAGAAGAAAGGTGCAGTTCGAC	ATTTTCCTGAGGATCCCTTCTACCTT
A13	TGTGAGACGCAATTGTCAACCAA	ATGTTTCCTTGGAACCTACAGAGTGTTTTAA
A13	CCATTTCCCGGTCTTAAAAATTTTCAGTTT	ATTAATTACCGCATAACGACCATCAATTGA
A13	CCTAAGCTTCCGCCAATGGAATA	CAAGACAAAGAGGAAATTCAACCGATTATTG
A13	TCATCAAAGCTTGGAACGTGGAAG	TGGAGAATGGATACTGTGTGTGGATTAT
A13	CGTATGTCCCGTGCACCTTAATT	CCTAAAACATGCATTGGAAGTGATTCAGG
A13	TATCGTTGGTAAAAGAGCTTTGGCATAA	GAAATTTTCATGCCAACCAAAATTCATGCA
A13	CGGAAAAGTGTGTTGGTTGGATGG	AGGTGGTAAGCTACTTGAGCTCAG
A13	ATGCTTTAGAGTGTCTCACCTTTTTTAATGA	TTCTCGGAGTGTTTATGCTCAGTTTTAG
A13	CTCAGATTTCGAATGATCGAAGAATCGC	TTGGAACTTTTGTATCTCCATCCAACATATA
A13	TCTTGAGGATTTTGGAACAAATATGTTGAT	ACAAACTCAATTACCAAAATCATCTCTCGTC
A13	AAGGTGAGTTTATGTACTCTACTTTTTGGGT	GCATTTTCATGCATTTACACACACAC
A13	GGGTGGTTCCGACAATAGTAGGG	TCCGCATCAACGTCTATTTCCTTGT

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A13	CAGATCCCAATCTCACCAAAGCTTTAA	TTTTTGGGATCTGTCTCAGAACATGAAC
A13	GCCTAGAAAAGAAGCCTAATAGAAAGCTT	TTTACCATTATCCTCTCCAAGTGGTCTAA
A13	TTCTTTAATGCTTAAACAAGCAAAGCCAT	GATGATTGGTAGTGCATTATGCTGGTAA
A13	GTTGTTTCCAACCAACTAGGACAAGC	GGAGCATTCTGCATTTGTCATCGA
A13	GTACTCTAAATGGTATGATGCAAATGCTCA	CATCGGTTCTTTCTTCGGATACGTC
A13	GATTGGCTAAAAGTTTCATTTCCCATGTTA	AGCCAATCATTCTATCATACTGGTCTTAAAC
D01	GATATCTTTAAGAGAGGTGAGTGTATGCAGT	AGTGTCAAAGTTTGGTTTCAATTGACAGC
D01	GAGCTAGTTAGACAAGTCTAAAAGAGATGGA	TATTGCTGAACAAGAAACAACAAGCACTT
D01	TCAAGGGACATGGATGTGTAATGGG	TCCAATCACATTACTATGTGTCCCTTTTTT
D01	CTTTGCTTCAAATCCGATTGTTTGCT	CTTTGGTGTTTCACAGGTCATAATCCT
D01	GGTTAATTGATAAATGTTGTGGCAAACAGAT	ATACGGTGCTATAGAGATAAGAGTAGTTCCC
D01	AAAAGGGAGCTCAAGAACTCTTACCA	GCTTCTACATCGCTTTGTTCCAAGC
D01	GTAACATCCGATATCCGAACCTCGTTG	CCTCAATGTTGTCAATTTTCGTAAAATGGGA
D01	AAACCTAAGGAGACAAGAACTGTTTCAA	ACATTTAGTCCAATGGTTAAATCTGCTACTA
D01	CGTGCAAATTTGGATTGTGCTGTT	CAACCCAGGAAGCTCATTAGGAAAAA
D01	AGGTAACCTTCTGGATTATTCAGCTAGT	TCGTGATGTAAACTGTGGATCTTTATCAGA
D01	CCACCTAAGGGTGAGACAAAAA	AGCCACATTGCAGAGTCTAATAAGGT
D01	TCAGTGCTCTCTGTTTAGCATATTGGT	GCCCTTTTTATGAAATTGAACACTCAAATGA
D01	CTAAATGGCTCTAGCTTTAAAAACCAAATC	AAGGAAAATGAAGACTAGCTTAACGGAATC
D01	GCTGCATTAAAGTTGCAAACCTCGAA	GATGCATCCCAATCACTATACAACACTACC
D01	CCATCGTTCTCTGGGAAGATTATCGA	AAGCGAATGATCTCGTTAATCTCGTTTAA
D02	TCAAAACCTATACCTAACCTCAAAAACG	CTGTGGATATCTGAACTTGGATTAAAGCTATT
D02	AGGTATATTATCGACCAATTTTCCACAT	GGATCCGGCAATTCGGACAATAATT
D02	ATACATACAAGAGCGATTAGTGAGTTGTCG	CCTAAGTCTCGAACCTCATAATTAATGGTTA
D02	TTTAATGGAGATAAGCTTTGTGGTGAAAA	TCCAATAATTGTTGGGTTCAAATCTTCTCAT
D02	AGGTTGTTGGTATGTTTGTAGGATAGCAAAA	GCATTTACAAAGAAATAGGTGGCCAAAATTA
D02	TGGCTGGAGCTAGCAACATTTTTT	ATCCTCCTGCATGGCAACAATAC
D02	TGAAACTCATCTCTAGATGTTGCTTTTGTT	CCGTTTCTAAGCACTTAGTGCACCTG
D02	TCTATTGTTTAGCCAATTTCTAGTTGTGGTT	ATTCAAACAACCGCAACTATACTAAATTGGT
D02	CGTTTTGGGAAAGGACTGAACGAA	GGTTCCAAATTACTAGGTTTTAGTCCATCTC
D02	CCTGATGCTCCAAACCACCTATT	TCCCATTTTCGTGGTTTCCTATTATCATCA
D02	ACATCAAATAAAATACCACACACCATGGAA	TAGCTTGAAAGTCCTCCCAATTCATTAGC
D02	CTTAATTAGTTGTTGCCAAGGGTTAGG	ACTTTTGCTTTTTGAAATTCCAGTGCAC
D02	TAGCAAAATTTACCGAGAGCTTAAAGGAG	GTTGTAAGGTACGAGCGTGAAAAAA

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D02	GGTATGAATTGGTTGGTGGAGCATC	CTCGACAACCTTATCAGAAAAGACATCTGAAA
D02	AATTTACTCTCACAGCCTCTATTTCAAGTCT	GGGCGTGTGACCTAAGTAAGTGT
D02	GAGATGATAGTTTAAGGGAAGAGTAAAGCTT	TACAATGCTCGTAGCCTAAATTCCTCA
D02	CTAATGCAACGATTGCGTATAACAGATATGT	CGTGTCTTCTCTACACTTAATTTTAGCACTT
D02	CGTTCTATCTGTCCATTTGTCTATGGAT	GTGACACCAAGAAAGAAAGACTCGATC
D02	ACTTGTTTTTGTGGTGTATTTGATGATGTTTA	CGATCGTGTCCCAGATATATGTCATAAACT
D02	GGGATCCTTTTATGAAGAGGTGCATG	TGCTCATCTTCAAAGTACCAAGGTTCT
D02	CATGCCTAGCCAAGATGAGGATG	TGCTCATTATTTGCTCTATGATCGTTCATATA
D02	TGCATATACTTCTGATTGTGGTTGCAC	TGCCAGTATTTGTTCTTATACTCCTTGTGG
D02	TATCGTTTGAAGGACTCGTTACAAGTGC	CGTGGAAATTGCAAATTCAGGTGTAGG
D02	GACACGGTAGCAGCTGAAGATTA	CACATGTAGTGGTGCTTGTGAAATAAACA
D02	GACCCGATTCTAAGAACTATTGGAGAAGC	TATGATGCCACCACAAAAGAGCAA
D02	GGTCATACGACCATGTGTCCTATA	ACAATCACAAACACCAAAGCAATAACAATAT
D02	GGGAATGATGATTGTTTGGTTAAGGTT	TTCCCAAGATCCACACTAACAACCG
D02	CTTTTTGTTGATGAACACGGTACTCTA	AGGAGATCAACCAGTGTTCATACTTTGT
D03	GGCACTAGAAGTTTCCAAACCCAT	GCTACACTGGACACCAACTTGAA
D03	AAGAAATTTAGTCCTCTCCCTCAGTATGAT	CGACTTCCTAAAAGACATTTGACTGATTC
D03	GAAATTTTAGTCTTGATGCAACCGACAAT	CCCTGTCCTTTATACAAGTTGTGGATTTAGT
D03	GGACAGAAAACCTCGGAATAGTCCAC	AGCTATACATTTCCATCTAATGAGCCTTTTTT
D03	TGTTACACTCGCAAGTATTAGAAGCTCC	CAAAATACCAACCAAGACAAGTTCATCCC
D03	CTGTAAGCAATTCAATCCTGTAAACACCA	TCTCCTTTCTTTTCTGTTTTTCCACTTGTA
D03	TCAGCTATAGCAACCTGTACTCTTTCATAG	CCAAGTATCCTAGTAGGCTATAGCTCAAT
D03	GAGCAAGCTACAATTCAACATCAACTG	GGTTCTCTTCTCAACTAGAACAAAGTGATA
D03	AATATCCCTAGTGCCAATAACCAATTGTACC	GTAGGGTCATGTTGGGCTATTATCTTAGT
D03	AAAAATTTTAAATGCGTCCCTCTTTGTCAG	ATGGACCCACTTTGACTATTGGTCA
D03	CAAGTATGAAAGATAGTTGGTCAGCATCTG	TCAAAAAGCAAATTAAGAGAGCTTTCTGTTT
D03	GGTATTGTAGATCTCTATGACCATGTGCCAT	CCTCAGTAATAAAACCTATGCTAGTTGCC
D03	AGTCCCTGTACGTTACTTAAAAGAACAAAT	TCTATGAGAGTTGATTGTTTTGTGTCCTT
D04	TCTTTTTAAGTTAAACGTTTGGCTGCATC	GAAGAAGGGAAAGGGTGAAAATGAAAGG
D04	AATTTAGCTACACGACACTTCGAACTC	AGGACGGTCGATTGCATGAAAAT
D04	CATTTTCCCATAACTGCCATTTTTGTATCAT	GAGTGCTATAAATGCCACAAATTTGGGG
D04	AAGGTTACACGGCCTAAAACACAA	CGGATTAAGGTTACGGAGCACTAC
D04	CGGGCTAGTAAGAGCATCCATCA	CCGATCAGACTATTTAGCTTAGATTCTGCC
D04	GCACTAGAGTAGCCGGAGATGAG	TAGACAGTAACGAAGACAAATGTGATGTTTG

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D04	GCTAAGATAAGAAAAGCCAGGCAGATT	CGACACGCTTACTAGAGACCATCA
D04	GATGGAAGAAAAAGATGCACTCCAAG	GAATGACCACCAGCCATTTGATAATTATTGA
D04	GTGGTCGTGGAGTGCATTTAAAA	CAGATCATTTTGTCAACTTAACCACCAACT
D04	AGACAGTGAGAGAAATCAACACACAATA	GCTGGCTATTTGTGTATCTTATACTTGGTAT
D05	GCTGTAAAAACCTTTTAAGGCATCGAA	CACGGTGAATATTGTGAATCATAAGGGATAA
D05	GTACTAACATTAGGCGCAGACATAACAT	TCAACAATGTACTCATTGAGTTGGGTTG
D05	GAGGGCATATAACCCTCTTGCTG	GGATCGGCAATTGGTGCAGTATG
D05	TTTCGTGTGACATATCAAACATAATGTTGGA	GCAATAAATCATGTAGATGCAAGTATTGGTA
D05	ATGCACCTTAAATAGCTTTCTAGGCAT	GTCAATAGAGTCACAAAGTATGGGCATT
D05	GTAGGATTACCATACCATACCTATTGTGCA	CTATGCAAGTCAGAATGGATCGTGAG
D05	AATTTTGTGACATTGAGTGATGCGAAT	GGTAGGGTTGGCCGTTTGAATAGT
D05	AAAAATGATGCCAACAATCTATAATCATGAGG	AAAACACTATACCTACTTCCTTTTCTAGCAAAAAG
D05	AATGTCACTAAATGTACTCAAGTACAAGCAA	TTTCTACCCAGCTAAAAACATTTCAAACAAC
D05	GAGCTACGGTTTAGCTTCCGTAG	CGAGGGCTCATATAAGGAACAATATGATTGA
D05	CTAAGGAAGCGCTCAGTTTTGT	AACAATGGAAGGTATTGTCTCGCTTG
D05	TGTAATGAATGTCACGAGTATCATTTGATC	GAGATCCACTTGAAATGGTCTAAACTCTTAG
D05	GCAACAGTGATTCTAGTCACAGGAA	CGAGTGACAAAGTTTAGGGAACGATAGA
D05	CAATTGAATCCACTCATCTAAACCCATTGC	TACTTCATTACCCCTTCTCTTGATAGATGAC
D05	CAACAATAATTTCTGTACACGACATTCACAA	GTGCCGATGCAAGTCTCTAGTTT
D05	AAACCATCGTATCTTGGGTTCACTACC	CATTAATGGGTTGATGGATGCTTCTTGG
D05	AAGGTCTATCACTAATTTTCAAGCATCCAAT	CAAATGAGCTGAATTGCATATTTGAGGATC
D05	TCTTAATCATTTCTGCTTCTTTAGATGCAGTA	CCCAATGTTACCATAATTCAAAATTTCCCTT
D05	GCCGTTTTCTGTGGATCCAAAT	TCTGCTTTAAATTAGGGTTTGTAGGGTTTT
D05	TCCAATTTGCCGGTTAAATAATAGGAAAACG	GTTGACCAAGTTTGCTCATTTCCCTTCT
D05	TGATGGGTAATTGAATACGGGTTTTAGGA	GATTTGTCATTTTTCGAACGTTAAGTGACTA
D05	GCTGCTGTAGTTGGTTTGGTTTTT	AAATTTGTGCATAACCCAACCTCTATTAGAG
D05	TACCAGTGAGATTGTTAAATGGGTTGACT	GGACTTTAAATGTTGTGCGGATCTCCATAG
D06	GGTTTTTCAACCAAGGAAGCTTCTAGA	CGAGACATTACCACATGTCGAACATG
D06	TAAGTTGTGCAAAACAATTTAGCAACCTA	GCGTTTTGCTTAAATTGACTCACATCAATAT
D06	AATTGATGTCCTAAAAGATTGATGGAAGGAA	TAGCCTGCATCATTCAGAATCTGTTTA
D06	GAAAGCCTAATGAGGAAAAGGAAAAAGTGA	CTAAAAACCTGTTTTGCTATAATGTGGTGTG
D06	TCGTACCTTTTAGTCCAAAAAGAAATGGAC	GCTTGGCTTTTTCCCATTTAAGTTCTAGA
D06	TACAACTTTGTGCATGATTTGAATTGAATGAT	AAGCTTTTCATACAAGCTAACAAGTTGTCA
D06	TGATGTTGAGGTTCAATGAATGTTGTAGTT	GAACCACCGACCAATAAACCCATAA

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D06	CGCACTTGTGTCATGCATCATAAATAACCT	GACCGTTTGGACTATGTATAGACACTTCTTA
D06	CCGCAATCATTTAGCGCGTATTT	GAAAGATCAATTAACGATAGAGGCCTCATG
D06	GGTACGATCATAGTCCTTAAGCAACTC	TGATGCATCTCATGCCTATCTTGGT
D06	AATTCTCATTTCAATGCCACCTAGACAA	CAAGTATGAACATTCACCCCTGAATCAATAA
D06	CCCTCTTTTCAATCTTAACCCTAACCTACAA	GGATTCTCAAATTTTACAGGGTTTCGAAACT
D06	CCTTATAGATCAAGATTCAATGTGCTGGAAT	TGGAGATTTTGGAGCTCCAAAGTTTTG
D06	CATCTCTAACGTCGACAGTTGAGATT	ACTTTAATGCATGGATTAAAGAGTGGTCATC
D06	GGAAGACAATGTTCCTTAGATTTATCCTG	CGATTCTTGTTCATTACCTGTTCTGG
D06	GTAAGGATGGCGTTTAATTCTTTTCCGA	CGGGCTAATCCAGAAAACCTTCTAACA
D06	TACGTGGGTAACTAGTCAGTTAGTTAGTT	AAAAGGTCAAAGAGAGCCTCATTGAG
D06	TAGTCGATTTCAACTTTGGTAAGCCAA	CATTTGGAACATCCTCAAGCTCAATAAATA
D06	CTCCCGAGAGAGTTGTCAACATC	AGGGAATTTGTGTTGGTGTCTGTC
D07	GTTCGTTGGAAGCTAATGAATCCCT	GTCTATGCTCAATTTTATCTCCGAGCTTT
D07	GAGTATTGACAGGCTAAGGCTGAAG	GCTCTATTGGCATCTCCAACGTC
D07	CGGTGGCGACTCCAATTTCTATT	CATCCACTAACCATTTCCTATCCAACAAC
D07	GAGTTATGTTTCTATGATGGTTTGTTCAT	GGTTTGATTGGTTTTAGGCTGTTGTTG
D07	AAAGAGAGAGGAATCAACAATGGCAG	AGCCCTAACACATCACTAAAACATAGGT
D07	AACTGATCTCCCATTGAGCATTAACAA	CAACCCTTTTTCCAAGTGAATCACAGC
D07	CGAAAAACGGTTTTAGAAATGATACGGTT	ACGTCTGAACATTTAATGAACTTTATTAAGCAT
D07	GAAAAGGAACACCTAAATAATTGCCAAGATT	GGAACCAATTTGGTTATCTCGTACTGTC
D07	TTTGCACATTGTTCCAAGGTGATAAAT	CTCGAACATCGCAGTATTCCTC
D07	CAATAAGGGAATTGGCCTCCCTATG	ACGTTCTTTCTCATCAATAGTTAAGTTCGTT
D07	CATATTAATTGCTTGTGTGCGTTGAGTA	CAAAGTAGAAGGCCCTAGAGAAGATGC
D07	AAAAAGGCTTGAAATTGTGATCAAAGAAAAA	CAAACTAATTGACTTTCAGTACGCATCAC
D07	GCGTCACCTCCTTTAGACCTACG	GAAAGCACTGTACAAGCTTGATCTGC
D07	TGAATGCATGGTGAGAAATTTTCTTCCC	GTCATTACAACCCCTTCTGAAAAATTTGAGT
D07	AGATTGATGAACTATGTTTTGAGACCCTTC	GTTATGGGTTTCGACCATCTTGTATGA
D07	TGTTGTACTCCCTATGACGTCCATC	CCAACTCATCCTTTACTGATCGGTC
D07	GAATAATGTTTGTGTAGGTAAGCAAATGCAT	GCTCGCATCCGTTTAACTAGTCATATTAATT
D07	AGGGTGGCAAATTATGTTACCACAG	TGTTCCAATTTCGGATCCATAGAATGTACG
D07	ATTGTTTCGTTTCATGCGGTCAATCT	GAATCAGATTAGTCAGCTTGCCAAATTCG
D07	GCTTTTCTCTTTGGGTTTGGAAGACT	AAGGATAAGGCTTGGGATAAGTTGTATCG
D07	TGTGTACAAGATTGGTCAAGAAGATGGA	CTCAACACTGAGGCAGATCGTATCA
D07	TAAGGTGGCTAATTTCTCGTTGTTAGTGA	GCCCCAAATATGTAGGTTATCAAGGAAGATA

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D07	GAGTTTCTTGTGGCTAAAATTGCTCAG	ACCAAATCTAACAAATACTACCTCACACAAC
D07	GAATTCTACGTGCTGGATACGACAA	TTCGGGAGTGTGTTGAATCGATTATTG
D08	GTGGGTTTTTGGTGATTGATTAGCCT	GGAAATTAATCAAGCATGCAAAGCAAGC
D08	ACTCAAGTTTAACGCAGAGCATATGAA	TTGGAGAGTTTGACTGTGGAAATCAAA
D08	CTGTTATGTATCTCACTGACGATGCTT	AATAACGCCTCTTTCTCACCCATATCT
D08	GCGTTATTTCCCTTCATGGATGGGTTG	ATGGACTATCACAGTGAAAGCAACTTATAGG
D08	TTCTTGATCAGATTAATGCGCTTATTGCC	TGGGTAACTGAGCAAGCATCACG
D08	TCCGCAATCGATGGGAAAACCTG	CCAAGTCGTTCTTTTCTTTCCAATCCT
D08	TGGGAGCATGTTACACTCCGTATAT	GCAACGAGTTCGTAATGAGTACTTGAATC
D08	CTAAGTTACAGTACCCGTGCGAATT	ATCATTCAATTCTATGCAAAGCCAGAAAATCA
D08	GCCCACAACATGGAGCTTATTCT	GATCGACTCGGGTCATAAGACGT
D08	CTTACTCCATATTTCCCTAACAGATGTGCAA	GAAGCGATGGAGGAGTACACTGT
D08	GGTTCATGTAAATGGAACACAACCATTG	CATTGAGTCGATCTACTAAAAGTAGCATGAC
D08	TATCCCAATTGTGATTTTCTACATGCACTG	CTTAACTTAGAGGTAAGCAGGTGTGTATCC
D08	TCACTTGACAGACTGTTTCATGCAC	AGCTAACTCTTGCATGAATACTGTTTATA
D08	TTTTTGACAAAACCTCAGAGAATCGAGACTT	CATCATCTGTCTGTCACGCTTTTTTGT
D08	CATCAGATGGAGCCAGCACTAAT	TGTAAGCTCGTATAAGACCTGGGAATG
D08	GCAATAGAAGCATGTTTACCAATGCTG	TGGAAGAGAGAAAATTGGCAGCTATGC
D08	ATGGTTCAATGAGTTCAAACCTTACACAAC	TTACCTAAACCTCTCACATTTTCGAACG
D08	AAAAATTTCAATGTGCAAGAGACAAACGC	TGCTTTGGATGTATTTTTGTATGCTTAGCT
D08	CCGGTTAACAGCAACAATGCTAG	TTTTTGGCACTAGCAGTTTAGTTGTTATTG
D08	GGATAAGTGACTTCCCAAATGAAACCTA	GCTTGAAAAGGTCACTCAAATCTTCTCG
D08	GGTCGAACCGGTTGAATTAAAAATCAA	GCCTAATGCATCACTTGAAAAGCTCG
D09	CCCTTCATGAGTATTGGGAGAGATTC	TTCAAGAAAGAGACATTTACCTTGTTCACTT
D09	CCAGGTGTGTAATGAAAATGTGAGAAAAC	CCCTAGGGAAAATTTTAGCATTTTGGACC
D09	ACTTTTCCGCAATTATTAGATTTTCATGCTCA	ACCTCTAGTGTTGGTGTAGCAACC
D09	CGAGAAAAGCTCCTTAAGTATACTGGGAA	GCCAAATGTCGAATCCTAAAAAGTTCTTTAC
D09	CGGAGTACTTACCTACTCTGTTGCAA	CCGTCCTCAGAGCTCAAATCATGT
D09	GGAGTATTAGCTCCAAAAGGTTTCACTG	CAAGACTTTGAAAACCAAGAGCTTGAAT
D09	CTTGTAGAGAATGGGATATTGTCCCAA	GTGGGTTGGGTATCCCTAAATCCT
D09	CTCGATTTGTGAAGGATTATTTGTGAAGGA	CCTAGGGTCCATATTTCAATTCTGATCCC
D09	ATAGCAGACCATCCAATGGCTTACA	TGGCTTGCGAATTCTTTCCTTACTTT
D09	GGGTAGGTTTGGATGGGAGGTAC	TCTCCAACCTTTTTGAGCCCAAAGAAC
D09	TAAAATGTACGAATCGATATCGCCACTTC	GGTACTTGATGCATAAATTGATAGGTTTGGT

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D09	GCTCGTGAATTTTGGGTCATTACAGATT	TGTGTCTGGTTAATGTGGTTATAAACACATG
D09	CAAAAAGTCCAACTTACCTACCCATTTG	TTGCAGAATCCCACAAAGCACAAATA
D09	TTCTCTAAATGCCAAACCTACATGGTT	AGTTGAGTGGTAAGTAGTTTTGGAGTTTTT
D09	CTTAATATGTGTGATGCTTGGTTCGGAATT	CGTCGGAATTTACTACCAAACAAATTAAGTC
D09	GCATCACTAGTAAAGACAATCTATTGACCAG	CCAATGTATCAAGTATTACTGGAACCTCTT
D10	TGAGCTTCTTTTGGCTAGAGTACAGA	AACCCAAATGATTCTATGGAGAATCCAAAG
D10	GAGTTTCATCGTCCTTGCTACTGAT	GTCATCTCGAGTCTATGTCATTTTCAGTTTAA
D10	TATAAGAGTCGGGTAGAGACTTACCTGATAC	GTAAAGTTCCACTACGAGGAAATTGTTCA
D10	TGGACGCAGCCAACATAAGTTATT	TTGCAGGACGAACATAAAATACCAGATAAC
D10	CAAATATATGATGTTCCCTGAGGAAATTCGC	TGTTCCGACAACAGTTTAGGGTTAGG
D10	TGGTACGGTGTATCCAAAATATTTTAGGACC	CTCAAAGCATGACGATGATGCATTTG
D10	AGTCATACTTAACTTTGCCCTTTAAGGAA	GCTTGAATGGTGTAAAGTCAATTTGGTACTAT
D10	AAAAATCCGGTTTGAAAACAGTTTTCTCT	GACTTGGGTGTTTTTACTGTTGAATCCT
D10	TCTTGACAGAGAAACAACTCCAG	CCCTAATCGATCATTAACAATGAACAAGAAC
D10	AGAAATACATAAGTGGTGTGTGAAGGTC	AGAAATTTCCACAACTCAGAATTAAAGAA
D10	CGTAGATTTTATGTGCTCGCATGTTTT	TAAGTTTCCAATGTGCCCTCTTAAAGTG
D10	CACATCGTTCCATCTGATTCATGCA	GGTTCGAGTTCATATGATGTATGGTTACCT
D10	CTTTAGGTGTGATCGGACACGTAC	AACCTCGTAATTTTGAAAATTAAGACAACGTG
D10	CCCAATCTCAGGTCTGTTAGAGGTA	TCTGATAGTACGGTAATGCTCCGTAATC
D10	TGCTTTTACCTTAAAAATCCACTTACAACC	CAATTGTTCTCTACTGCCAATTGCT
D10	GTTATTAGCATGTGATGTTGCATTGCATAG	GAGATAGCCAAATGTTTAGGAGTTCCTC
D10	CCTTTATTCAGATCATTTAAGGCCCTAA	ATTGTGGAAGATATGGTCATATGAAGGAAGC
D10	CCCAAACCATCATTCATCGATTTTGAT	GCTAACACACCAATTACTTGTCTAATGAAT
D10	CACCTGAAGATCAACTATCCCAATGAAA	CGCAGGAAGAACGTGTGAATTTTATATATTC
D10	GGTGGAACCACAGCTTCTCTAC	CCTTTTGTGTTGGCATCTCCATTTTCATCT
D10	TTTCAATATTGCGTTATTTTGGAAGGCTT	ACCGATGGACAATTCACACATGAA
D10	CAAAGTTGAAGTTTTGTTTGGTTGAGTCC	TTTATGCATAGTTCTTGAAACCTTTTGATTATAA
D10	CTTTTGAAAATCACCTGGCAACCAAC	CCTCGCCGTGAATACTCTTAGAAGA
D10	TTTAAAGTGTGTTGGTTTTGCCATGAAAACT	GGGTCAGTTGAGGACATGAGAAGC
D11	CTCTTAGAGGTCCAGCTTTTACACCC	GAGGTCGTTTTCTGGATTGGTCTC
D11	CATTTTACTTCCAATCGCTTCATTCAAATGT	GATTTGTGTATAAGGCTTAGGAGCAGATG
D11	TGTTTGTACAGTTGGGCTTTACAGTG	CTCTAAAGAAGAGTCAGGCCATCTAAAATAC
D11	ACTAACGATTGGGTCACTTTGAGTACA	GAATTGGACCCTTTTGAAGACCTTTCT
D11	CCGTCGATGGATGGAACAGTTTT	CCAGCTGGTTCACCATCAGATTCT

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D11	AATATGAGTGGAAGCTATGGAAGAGCAATCG	GACACGTTTTCCCTTTAAGTTGCATAT
D11	AGGCTTTTATAGCCGATTTCAATGACTC	ATTAAACCCAAACAGCCCAAACTAACCCCTG
D11	TACAATATGGCCTAGAAAAGTACTTTACGT	ACGAGGTACGGACACTATCAGTTTC
D11	GATGGAGCTGCTCTTGGTACTTT	ATTTCAAGATGCCTGAGCTTGAGAG
D11	TTTGTACTATGCGCACGATTGTAGAT	GCCCATAGTTGTATTTGAGGAATTGTTGAA
D11	GATCCAAATTAAGTTTCTTGAAAGCCCAAT	GCAAGCAAAATTTATCTGTAAAAGGGATGTA
D11	CATAATAGCAGCCAGAGACCCAAA	CTGGCCTCGTTATACTTTCTTGAACC
D11	GATCGCAAAAACATATTCGTTTTTCAAAGTA	AGTTATAAAACTCACTCACTGTTTGTCTGTT
D11	TCAAATAATGGAACAAGGATGTCTATGGTTT	AATACGATTAAATTTCTCTCATAAGCGTA
D11	AAAATTATAGAATGTGACTCACCGGGAATC	GGGACTAACTTATTTATGGCTTTAACCTATC
D11	GCATACCAGGTTACTTAAGAAGTTGCTA	CGTGAAAAGTTGTCTAGAATCCTAACTCTAA
D11	AATACTTGCAGCACTGAGATAGCAAA	TCTTCTCTTCCCTCTCCTCTTGTGG
D11	TGAATTCATATTTGGATCGGATTGAACGT	ACAAGAGCTAATCCATCCAAACACAC
D11	TACTAGAAAGGTCAATAACCGTCCAAATTGA	ATCTTTCTCACAATAATTTCACTGGCTACTT
D11	CTTTAGAGCCGGAATCTAAGTAGTAGCA	TCCTTTGAGTCTACTTAGATTGTGGGTC
D11	CGTTAAAACCTCAAAGCTGATTGAGGGT	TTAAGACCTACTTTTATACCTTTTGAATCACACA
D11	CACACATGGAGGTATGTTCCCTCAA	TAGGTAGTATTTTGAGCCACAAAATCCCC
D11	GTTATCCGGATTTAAACTGAGTGTCAAATT	CCCATCTGAAATGAATCTCCAAAGTGC
D11	CATCAGGCAATTTTTTGGGTCCAAA	GAAAAGAATTGAACAAAACCTACACATTGCA
D11	TAAAGAAGGACTGGGTTGGAACAAA	GCCAAGCACAGGTATTAATTTGGGC
D12	CAAACAAGGCATGTTTCATAGTATGAGTGC	GAGAGGCCATGGTGTCAAATGAC
D12	GCAGATTCTCGGGTTTTATATATCGAAGGT	TCACTAGATTTGGTGGCCTTGAACC
D12	GGCTGGTGAAACACAACATCAAA	AGAATTTGGTAAGCTGGTAAACCCCTAAGC
D12	GATAACGAGACAATCTACGACCCAAC	GTTTGGTTTTAAGGCTTTGTTCATGTTCC
D12	GTTGTGTTAGGGAGATGGTCAATTTAGATAG	CTCTCTGTGGACCCGAATATTTCCA
D12	AGTTTCATTTGCATGACAACCCAAAAATTAT	CACGAACGAAATACGAATAACAACCTGAAC
D12	GATTATGAATGTCTCCTCGTTCGATGATC	ATTGATATGATTGATTTGGGTGTGTAGTTA
D12	GGACCAATTTGTTTGGAATAACAAAACCAA	GGCAGCTATCTGGTTTTCTTGTGG
D12	GTCTCCAAGGATTTCTCCAAATACACA	CAACACATGGATTTATGACAAGATTTCATCAT
D12	CCACCAGATCTAGAACCACTAAATGAACC	GTTGCGGTGGTCTACTCAGTTTC
D12	GTATTCGGAAGCTCGTAAGGGTTG	ACTTCCAACAATGAAAGTGTGCTAC
D12	TGAGTATGATGACTTGCTTGCCAAC	TATCAATCTGTGCAAGGGACCAGTTAA
D12	AGTTGGAAGTGATGGTAAAAAGAGGTGG	GAGTCTTTCTTTCTTGTTCAGCTTACC
D12	TTTTTATTTTTTCGACTTTCTTCGATTGGAAA	ACCAGCGTGCACCTTTTATC

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D12	TGTAAGTAATATGAGGTCGAGTTAGAACCAC	GTTCTCTCTTAAAGATATGGGTGATCTTCAT
D12	TGGCATACTGTTGGGCATGTTTG	GGTGAGATGAAATGCATTTTAAACGCAC
D12	AAAAGCTAAATAGCAATGGTAGCATCAACT	TTCCTTTACTCCAATGACATGGAAATCTTC
D13	ACTTCTACGTATGGTTTATTTGTGCTTCTT	AGTTTGAAAGCTGGTTTTATGTTGTATCACT
D13	AGTGGGATGTGAGAGTATAGCAAGTT	CGGATGGATTACCTCCTAAGCTATCAAG
D13	CGATGGTAGAAAAGACATATCGTTTCGAA	AAAAACTTTCCAAAGCCATGATCGTAGC
D13	GCAACACGATTAGCGTAATTCAAATTTAGGC	CGTGTTGCGGACTGTTTGACTAA
D13	GACTTAAATGATGTGAGAAGTGGTCGTTAT	GTCCAACGTATTTGATAATTTCCCATGAGTTA
D13	CCACTGAAACAGAAATTCATTTATGTCACTT	CTCGAAGCTGACAAGGAGAACTTT
D13	TGTAATTTTAAAGGACTGAAGGCTGTTT	CTGCAATTGTCTCTTTTCTCAATTTTCCTC
D13	CCTAATTGAGTGTCTGACCTTCTTAGTAGG	TATGCATAGAGAACAAATGTTGTCTGTTGAG
D13	ATCTCTCATTTATCTTTTGCTCTATCAACATGTC	CAACCAGAGGGTTTTACAATTTTAGAAAAAGAAG
D13	CTTAAAACTTTATTTGTCAGGGTTTTGGGTA	CGTTCGGACCACTCTGTACTCT
D13	ACCCAAGTGGTTAAGCCTTTCATC	GTTTCCAAGAGATCAATTTCCAACAAAAGAA
D13	TTTCTCTTTTTGGTGTTTTTGCTACAAGTC	CCACATCCGAAAAGGTAACCTTTAATTAAT
D13	CGGCAAAGTATCCTAGAAAGATGCAT	GAATGAGCAGAACCTTTCTCGAAAAGG
D13	GCTCATCATATATCAAAACATGTCAAAGCAT	GCACACCGCCATATATTGGTGTG
D13	CGAAAATCCCATTTCCTAATCCTAACTTCT	GCGTTTAAAGTTACTTTTTGTCTCATGCTACA
D13	GGGCCTGATTTTCTTTCATTCTACCT	GGCTACTAGTAGGGCTCAATAAATATGGAG
D13	CACAAAACCTCCAAACCCTAGACAT	GTGCCTTACCTTTTCTAATTTTCTTGGGA
D13	CCTTATACATTTCTTATGGCATCATTTGGGTC	TCCTGCTTCTCAATACAACCACTATTAATGC
D13	AAGAGAGTAAAGAAATGATTCCTCCCAAAGC	AAAAACAAAGAGAAAGGGTAGATGGAAAGAT
D13	CTCAACTGCATACACACAAAGTATGTCG	GTAAACTACACTAGCAGTCACCCAAC
A01	CCTCCCTTACTCTGCCACTTTTT	TCCCATGTTTCTCTTGTGGGTACG
A01	CTGGTCGGATCCCACTTATGAGT	TGTTTCGTATGCTAAAGAGGTGTGATTAAATT
A01	TTTTTGGCATTGGTAAACAACATTTAGGG	CAATGAAGCATGACAGTCGCAAC
A01	CCAGCTAACCAAATAGGATCTGGTT	AGGCCACCTCTGATTTGTCTTTAAGA
A01	GCTTGGGAGATCCTACATGTACATACA	AAAATACCGGGTCTATCTTAGGCTTGG
A01	GGCATGGAAGAAGGCATGAGAA	CTGGAGAAGAAGTCTACTTGAAGTCTAA
A01	GGCAACTACAACGGTGATGAGAG	CTTACCTTGTTCGGTGATACATTAAACCT
A01	TTAATACTAGTACTTTTCGTCAATTGTAGATACGA	AACCAAAATTGCATATAACACTATATTGAACCGA
A01	AAAAATTCAGATGTTTGGCCACATG	GAGGGTCCATTTAAGTGACGTTTCG
A01	ATTGATTTGTGGATTTGGTTGTGAAATGAT	CCCTAATTCAACAACCAGTGAGTTACAC
A01	GTTATCATGCACACCCGATGAGTG	ATGACGCAGATTGATAGCTTGACTAGA

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A01	GAAATAAAAATGACGACCCTTGAGCAAA	GCGAAGTAGACTACTTAGTCAAAGAGCT
A01	GTTTAAGCCAAATTTGGATAAGTTACACCAA	TTTATCTGCTCAGGTAGACATCTGACTTAG
A01	ACACTCTGTACGATTTGACTACAAATCCG	AAATTTTCAGTGGCTTTTCCCAAATTTTCG
A01	ACTTTATTCCTACTCCATTCAACCAAACAA	ACAAGAATTGATTTGGGTCAAGGTTCTAG
A01	TTAGGTAAAAATTTGGGTCCACACGAAC	AAAGTCATGAAAATTTGGAAACAAAGGACAC
A01	TTTCGAGAGTCCAATATAGGGACTTATTTACTA	GACAGAGAGTAAAAATGGAAAATACTTTTGGAAA
A01	TAAGGGTTATTCGAAACCAATCACTGTAGG	CAATTGAGTGTCTCTGTGATTCCAC
A01	GATGCAGCACAAAATTAAGATTTTGGAAGT	GTAGTAAGGCGTCAATGAATACATGCC
A01	TTTGGAGATGTTTGTGCTTGGTTTCA	CACTGTTTAGGGATTAGTTGTTTTTCGAAAG
A02	TTACACAAGGTTTGATTTATAGACGAGCAAG	CCATTTTTTACTACTAAAAACAGACGTGGTTG
A02	CCACCAAGCATTTCTGTAGTTTCCA	GGTGAAGGTAGTAAGGTTTAAAGATAGGAGG
A02	GCTTCCAAACGGAGCCTTAGTT	CCCAACAATTTGAGTTATTTGAGTTGTAATA
A02	CTCTCTGTGAACCCTAGTATTTCCAAACT	GACTTGATTTGGAAAGTCTTTTGAGAGATGG
A02	CGACTACCATTTGGTGAACCTTGCAG	GAAGTGGGAAAGTCCTATGAGACTATCTT
A02	TTTCAGAAAAGAGATTTTCAGAGAGGGATC	TCATTTGCACCTCTATCTAGCTCCTAAAA
A02	GATAGATGGTTGACTGTGATTATTTGCTGA	CACTACCTTAAAGCTTATAATCCACTTACCT
A02	GCCTAATTTCACTGAATCAATTGCTAAGGT	CAAAATATAATCAACCCAACCAATGCAATG
A02	ATTGAGCAATTAGAAAGACAATCACGATTGT	CTCTCATAGGCACATTTCTTCAGAGAAGA
A02	TGTACGACATTCCTATCATAATCCAAACCA	GTTTTACGATGCAACACTAATACTTGAATA
A02	CTTCCGATCATTTTTGAGAATTCTTTGTTTCAT	TATATATCCAATCGGTCTCTCCGCTAGC
A02	CCAAAGTCATTGTCAAGTCAAGCTT	CCGATCACACCAAAATAAAAGGATTGGT
A02	CAAAATCCCTAACTCACCACCACATC	AATTCCTAAGCTCCAGGCTCTAGTAATTC
A02	AACCAGATACTGGGAAGCACTACTAA	TTGAGCCTCTCTGTATTTGACCTTGG
A03	TCTTGCCAACTGTTGAGAGGTTATCA	CTCGAGAATTGGAGGGACGATAGG
A03	CGTAACATTAAAGACCTGTGAAACACAGTT	TGTAAAGTCCAAACCCAAAGGAGTT
A03	GTCCATTTACAGACCTTGACCCAAT	CTGCTTTGTTTGTCTTGTGTTTGTGCA
A03	GCCTCCTTAGTGTCTCTAGTATACTCCT	GGAGAGTTGCACCAATTGTTGGT
A03	AATAATTGACTTTTCATGTCCTCAAGTCCAA	GTCTGATGGAATGCTGAATTTACTTCCT
A03	GAATCTGAACATACATCCGTGTCTGAA	CTTAATTTATGAACCGAGAGTCAATCCGAC
A03	TGAATCTAAGAGGTGCAATGTTTATGGAGA	GACTTGAAAATACACTTTTCCGATACCAAAA
A03	CATTATCCACCACCTCTATAAACTACCCT	CATTGTGTCTGAATTACGTTAACAAGCTTG
A03	CGCTCATTTACACAACTACAACGAACA	CAAAGTTGTGGTGGAAATAAAAATCTGAGAA
A03	GATTTCTTTTTGGGAAATTTCTATCACACTT	TGTCAGCAAATCCTTCGAGACTATGG
A03	TCCGTGATAATTAAATGGCTTTGGTCTC	TTTTGGTTGGTTTTTTAGTGACCTTTTATGA

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A03	ATTCTCTCTCTTTTCATGTCACAGTTTG	GGTACACACCTAGTTCGTTTTTGCTG
A03	TCAGAAATATGGTCATGTGGCCAAAT	GTCGTGTGTCTTCTTGATTTTAAGTACAGG
A03	TGTGACCCTGTCCTCTTCTACAC	GAAAGAGCTGTACAATGTGGACATGC
A03	CTATGATATGGCACTCTGGTCCAAA	GATTTAAGAGCTTTCGTAAACTCGTTTGAAA
A03	ACTTCTAACGTGGAGCAAAAATATTTGTTGC	ATTGTACAGATTGGTAATGTCCTGTAATCCT
A03	AGAACATGGCTTCGCAATCTCAA	TGCTAAGGGAACAATTTTCAGTTGGTG
A03	GGTTGAAATAATGATGGTCTGGTTAAGCC	GAACACACTTTGTAGACTTATTTGGACAAAG
A03	ACATGTATCTGTGGCTATAACAATGCAT	TTAACATGGCTGACGAAATAACCAGATAAT
A04	TTTAGGTGAAAGTCGTGAGACGTTG	TTTATATAGTCTGACACACGGTCATATTGCG
A04	CCTTTTCCCTTAGCCACTTCTT	AGATGGTGCTGGATAGATGAAAAGGG
A04	CCCATATTGGTGATGGGATGATCAG	GATCCGCCTAAGTTTGTGGAGTAC
A04	TGGAATTTGTAGAAGCTATGGAATAAGTACTA	ATTCTTTCTAGAACAACCTCATTGACGGAAC
A04	ATTTGAACCAGCTTCAGCAATGTGA	TGACCCATGTGCAATATCTTGTACGA
A04	TCAAATTTGTTCTCAAACCTTCAAAACATTCCA	TTAAAGCTTTTGTAAAAGTTTCGAAAAACCT
A04	GTGAACTGTCGCATGAGTAGTCAC	ATCTCCACAATACTTCAACTAGGAAAAGCT
A04	GGAGCGATTTGCAATTGGGTAA	CCTATTGAGCTAAAATGATGTTCTCGTTGAT
A04	ATTGAGTTCCACGATCATTTTGTAGATGTAA	AACAAGATTGATGTGGTAACTTGTAAACATCC
A04	AGTTTATGTTCAAGATTTCGTAGTTATCTTTTCC	GCCATTCAATTATCTCGATGAACGATTGG
A04	TCGTGCCTCAAGATAGTTAGGTCTA	GTTTCAGAAAATCTTTGCCTTTGTTCTTCAA
A05	CCAAGTCCATCTATTAACCCAGTCTA	CGTTTTATTTTCTTATGGATCGCTAAACACTTTT
A05	AATCTGAATCCTACTTCTAAACCTTCATGGT	TCCATTAGTTTTTAATGGCAAGAGTTGGAAT
A05	TTCTTCTCCAATCTGAGTTTGTCTTACAT	AGGAATTCCCTCTCTTCGGGATC
A05	ACACATTTTCATATGTCCTTATTAAGTAGTTTCAA	GGCATAGTTTTGGGATGAAAATTGGTTTATTG
A05	GATTAATCAGTCGATGGTCGAATTTAGTTGA	GAATTGACAGAAGAAGCAAACCTGTTAGAGA
A05	CGTCGGATTTGAAAGTTGAAAGAGGG	GGTAGCAAACCTGGATCAGGTCAG
A05	CTTAATCCTTCTTAACCTCGCAATCAACT	CCCTACTAGAACAAAAATCAAACCATAGGTTG
A05	AGTGCCACACTCACCAAGAAAAT	TGACAGCTTCGTCTGTTCTTAGTTAATAACT
A05	AGATAAACTAGTTGTAGTTGCTCACCTTG	AAACTGTATGGAACATAAGTGGATGAACATT
A05	GTCCATCTGCAAACATGTGCAAA	ATGACCAGATGGCTTTTAGGGTTTATTT
A05	GTATTTGATCGAGACCTGAGGTTTAC	TTGACCATGACTCGTATTTTAAACTCAGTG
A05	GTTGCAAATTGAGCTTCTTGAGCTG	CCTTTCCACAAATGAGATGCATTCCC
A05	TGTTTGCACAATAATCTCGTCTCTTGAG	TACTGCCACATCACATTTTTGAATAACAAGC
A05	ATGGAAGAGAGGTGCAAGAGGAGAA	ACACGATCGTATGGCCTAACACG
A05	GCCTTGCTGTGTGGATTATACCG	GGGCAGTTTTTCTCAGTAAATAGAACTAAGT

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A05	CCAGGGTGGATTACCGAGGTAAT	TATGTGACAATTCCTAGATGATTCGTCACA
A05	GTGAGGCTTGGTTTTTATGGTTAGGG	CCCAACATGGGTTTCACAAGTCC
A05	CAGCTTGTCTGGAAAGTGTGATATAAACT	GAACATGCAAAACCATTTCATGCTTTGT
A05	GTGCCACACAAGCTGGACACAAG	CGGGATTAAATGTTACGGAGTGGTAAAC
A05	CCGGTTATCTACCTAATTTTGAAGTGAAGTT	GTAATCAATCTTTGAAAGATCCGAACACTTC
A05	GAGTTTGTGGTTATGAGTTTGGTGTTTA	CAAGCCCATAGCTTAAACATTAAACTCAAA
A05	TACAAATATGAGCGAGCTTGAACAAAAC	GCAATGACTAATTCCTCGTAGTGAG
A05	GGGCATTGAAAGAGGAGTTGAG	AAAAAGGAGTGAATTGAAACTGGTTGAAAAA
A05	ATTGGGTTGTAGTTATTTGGATGTTTGTGG	GAACGTCGTCGTGACATCATCTG
A05	ACTAGCTGGTAACTAATACCTGCACTA	ACAATGTGTTAGTTGCGGTTAGTGTAAG
A06	GATGTGGCTGATGCAAAATATTTGTCTA	GACTATGGACGAGTTCAAGCAGTG
A06	TTTAAAACAAAAGGGTGGAGGAGACATT	TTTCAGTCCAATTGATCCAATCGACTAATC
A06	AAGCTGCCTCATTTACTGTATCAACAT	GCATCAGCATAATGGAGGTGCTATTG
A06	ACCTAAAAATTGGTTGAACCAAGCCC	ACAGTTAATCTGAAATCAAATCTTTGGTAGAGT
A06	GCGTCACATCATCGAGACGATAG	AGTGCACAAGTCAAAAGCTAGAAGTATTC
A06	TGATTAGCAAGACACATCTTGAGACAATC	CTGACCCTCGCTGGTACTAATCC
A06	AAGCTAACTCGGAAGGATTCAGTGC	CATTGAGACTTGAGTTTCTCGAGATCAAA
A06	GGGTGTTACATACTCTCAATCTAGACTCT	GGTGGCTCACAATACAGCCAAAAG
A06	CGTGTCTACTGCTAGCAGTTATAATTAA	ATATTTGTTCACTGTATGTTTGAAGTGCCTAT
A06	TGATTCATTTTCCCAAGTTCTCTAACAGTC	GGGAGGTGAGATTTCCAGTTAGAATTAAGC
A06	CTTTATCCTCCAGTTCTTATATCAGATCGAT	TACAACATATCACTCGCAAACAGATGAG
A06	ACTCGAGAAATGAATTTTAAAGCAATCGTGA	GTCCAACTCACTCGAATCGACATTC
A06	GGTTTGGTCATTTCTTTTTCGGTTCTTCT	AATACCTCATATCCTATTCCTACGATGGTTA
A06	CTGAAACCTTGGTAAGACACCGTTAC	CTTGAGTGTTGATCTCTCTCATTCGAC
A06	GATTGAATATGAGATTAGTCCGGTAATGCTT	CCTTTGAGTCCCTAAAAGGACATCAAAAAT
A06	CTACTTTGGATTATGATTTCAAAACCACTA	TACTACTTGAATGCAGGATAGGTTAAGACTC
A06	TAACCAAGCAGAACACACACAAATTTCTAA	TAGCCATATCACATGGCATATGTAACACC
A06	AAAAATTGAACCGATGCCTGCAAC	CGTCGGTACCACCTTTATCATCC
A06	TTGGCGCAACATTGTTATTACCACT	GCCGCTTGATAATGAGGCATAAAAAA
A07	GAGGGACTAGATAGAAATTTTCCCATTTCCC	AATTTGGTTTTGACTTTGAGACTTCTCAACT
A07	GCCCTCTTGGCGTATTATCGTAT	TCTAGGCTATGTAAAAAGGTGAGAAAGAGAT
A07	CTGAAGTTGTACTTTGACAACAACAACAA	ATTCCGTTCTCAATGGTTTTTTGAATGGG
A07	TTAGTAGAGAATTGTACGATGATCGGAGATA	AGTGGATCCCACTCACTTATCGTC
A07	TCAATTTTGTAAAGCTCCCAACAAATCTTGA	GGCTAGAGCAAATTGGTTAAAGAATGATGA

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A07	AATTACATTCTTTGGCTTTGGCTTTTGTAG	ATCTCTTTAACAGCTTCAGAAACCCTAGG
A07	GTCACACCTGTTACGGCAATCTT	AACTCTCCACTCTACATCTTCCTCTTAGA
A07	CTTTGCAAATAACGAGATCTCCATTTAGCT	CTCTAGATGATAGGGTTGCCAAAATTGAG
A07	ACAGTCAAACAGTATGGATTGTTTTGCT	CCATTCGAGAAACCTTCCTCATTTGTTT
A07	TGTCCCTTCTACCAACCTTTTCTTTCT	TCCTTTAACCTCTTCGAACCTCTCTC
A07	TTTTTCTTATGTCACATGTTGCCATT	CCCTAGTGATGCTTCACAATCTGGT
A07	GCTAGCAATCTCCATTTTCAGATGTACTC	ACCTTCATGTATTTCTTTATTTTCGACCTGTC
A07	AACATCATTTAGACTCCCATTGAAAGGTG	GGCTATGTGTGATGCCATAAGCC
A07	CGTGAACCTTGCTTTGGCTGATT	CGTTCCTCATGGTAGATTTGAACTTACAC
A07	GTATGCCCTAGGTTCTGCAATA	ATGTGTGAATGCACAAATACAATACTCACC
A07	GTAATGCTTCGGTTTCCAATAAGGAATCG	CGTATCTCAAGCCAGTATTTAGCTCTGG
A07	GCCATGCATAAGACACGACATGT	TATTTGACCATCCCTTTACCAAACACAT
A07	AACAACAATTCATTCAGGCAAATAACAGAA	AGGGATAAGCGTAGTCGTTGAAAACCT
A07	CGAACTCATAAATTTTGCATTGGAACAAT	CCCATTTTGATCGTGCAAAAGACCA
A07	TGTCACAACCTTTTAATGACAGTATCATGAA	GCAATTTAGGGATCTCAGGGTCATAATACC
A07	TCTTGCTCCTTATAACTCAAGCATGAAATC	GGAGTGGTAGCTCATAGTTGCTAGG
A08	GTTGTTGGCGTGCCAATGAATTATA	AAAAGTCTCAAATGTTGAACAGAGAACTCT
A08	CCACTGTAAGATATGGAAGCACTGTA	TTGGGTTGGAAGTAGTGATGAACCC
A08	CATCCGTCGTGCCATTTCTTTCT	CAGCATGGTAAGGATGATCCTATAAGCA
A08	CGGATACTCCAGACCCAGATTCA	TTGCTCTTTGGTTCTTCGTTTCAITGT
A08	GGCCTGGTCTACAAAAATGGAGTT	CTCATGTCCAGAAATTTATGTCAGAGGTG
A08	AGCTCATGAAGACCCTATCATACTGTT	AGCAAATTGCCATATGTCCTCGATC
A08	TGTCAAGGGCATAGGAAGTCAATATTGG	CGTGTTTAACTTTTGATTGCAAAAACCAA
A08	CGATTACGAGAATTGGCAAATGGATGT	CATACAACCACTAAGCCAGACACTC
A08	GAGATTCATGCACGACTAGGTACATCG	TAGTGGTGTTTGGCTGAAAAGACAC
A08	AGAGGATAGGCTATCATTTTCAGGAACTT	GCATTAAACTTTCCAAGTCTACACACAGC
A08	CTTGGTACCTAGAGCCTCATTTTCTT	CCCAATGGAAATGGGAGCCTATTAAT
A08	AGTAGTTGTTCCGGTAATGAATGCAA	TCTCATGAAGTGTGAAGACTAGTTTAATGT
A08	CATGATTGTGTCTTTGCCCATGTG	AGCGATTAGGTCTTTTATCAAATGAGCA
A08	AGAAATATTTTGATCACCAGCAGTGACAA	GCCTCTGCTCCTCCTCTTTTCTTAT
A08	TGCCATTTGGCTTAACAAATGGTCG	AAAGCCTTTTACAAATCTCCGATAATACCTG
A08	TAGTTTTACTCCTCATACTTGGAGGTCTTT	AAGGAGACTCCAGTTTAAATTTTCGTGTT
A08	CACCACAAGCATTACGAGCATCA	CAATTCTCTTTGCGCCTTGCTTG
A08	AACCGCTCCCAATTTATGTTTTGGG	CCATCTTCAGCAGTAGCCCTAAATCT

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A08	TTTGTTTCGAACGAACTCCGTAAACTAA	ATGTTACACGTAGCGTGTGTGAG
A08	CATTTTCATTACCTTTCCCTCATCTCTTTTCGT	GTCTAATTGAAAAGCATAAATGATTGAGGCAC
A08	ACCAATACCAATGGACATCCAAGAGC	GAGAGAAGGAAATCTGAAGGCGAAG
A08	GGTTAGAAGAAAAATGGAAATATGGGCAT	TCCCTTTAAATCAGATTTGTGGTTACGAAAC
A08	CAGGGTAAGAACTCACTTATGATGTAGAAC	CACCTCCATCTCAATAGAGCCTTTA
A08	AAAAATCTGCGAAGTCAACAGAATTACAT	GCAAGTTTTGTGACCTCACCAAAGA
A08	CATCCAGTCCATGTACCTTAACAACCTC	GTCTAATAGGAAATGAGCAAACCGTTTGA
A08	GAGCATGCTCAGTATGAGGATGATAG	GTTTGAATTCATGTTTTCTCTGTGATCTGTA
A08	AGAAAGGGTTTTTCAACGATATCACATTTT	GGAATTTGGAGATGGTTTTATGCCACTATG
A08	AGTACAAGTGTTTTGTCCCTAAAGTTACG	TCATCAACCGTCCAAATTAATTTCCAAGT
A08	CATCTTGCTTGGTCCCTCCTTTA	TTCTCCATTTCTGAATAATCGGGCATG
A08	GGCCAAAGAGTAAAACATTGTTTCGAG	CTTAGTGGTGTACGACGCTCAAG
A08	CTTTATATGGTCGGAAATGCAGAAGTCT	CGATCCAATAAATTTTGGATTGAGCTTTCAT
A08	GACATTTTGATCTACTCCGGTGATGAATC	GTCTTACGCTTTTTTATATGCGAATAAGGTCT
A08	TCAGGGTCTCGAGGGTTCTTTTTTAG	TACAAGGGTTCTACCTTCTCTTCCCTAAAAA
A08	GCCATTACGACACGTATCAGATATGGT	GGGTCAGTAAGGGTTAAATAAACCTATTCT
A08	GGATTATATCATGCCATTGTCTACTTAGCAT	TTTTATCCAAATATTCAAGTTTCGATTTAGTGGT
A08	CAACAGGAAGAAGTCATGGGAGATT	ACTTCACTCATGGTTTTCCCTTAAAAGAA
A08	AAGCCCAAACCTATAGGGACCTAAA	CCTGTTACAATATGTTCTTGTGGCTTTA
A08	CCTAACACAGGCGTGAGAGAAAC	GAAGAAGATGATGAATAGTGAAGGGTCAAG
A08	AGCTTTACCATATGGCATTAGAGCAAT	GAAGGAGAGAAATATCCACGAACTAAGTA
A08	GTCGAATAGAGAGATAACTTGTCTTGAAAT	CATTTGCCTAATGTACTAGCTTTCAATCCA
A08	ACTTCTTGAAGAGGTAAATGACTTACGATGA	GGGCTAAAAATGCCTTACCTGAGAC
A08	TCTTTAGGTATACCATTTACAACCCCTGATA	GGGATAGTCTAGTTGACAAGATCCATTGAT
A09	ATGATTGAACAAAAATTTGTAAACCACGAGAC	AACCAATGACTTTTCATACACAAGTTGTCT
A09	GTTGGCCGAGGAATCCATCTTAT	TCAAAAACTCCGATAACTTATTGGGCTG
A09	AAAGAAGCTTTGTATCAAGACATGGAGAC	GGATATATTTGGTGCTTTCAAGACACACC
A09	TGACTAATGTCCAAATCATTTCTAGCGTA	TAACTAGCTTATGTGGCCAGTTAACTTGC
A09	TCTATCTCGGATTCTGTGGTCATGAA	CTTCAATGCCCCATTATGTTGCTGTG
A09	GAGGGATAAAATTGACGTCAATAGCT	CAAAAAGATAAACATCACCACATTTGAGATCAG
A09	CAAACAGTAACTTCGAGCTATTTGTTGAT	TGTATAAATGGGAAATAGGAGGTCCCTAATG
A09	CTTTGGATCATTTGGGACACACAAT	GCAAACATTGTAACAAATGCCTTAAGTAGGA
A09	GGTTGTGTGCGATGACATGACTG	CCGATTAGGACGACCCATGTAACC
A09	AAGGGAAGTTTCTATCCCAAATGATTGAAA	ATGAGGCCAATTGTTAAAACAATGTTGATA

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A09	TTTTTGCAAAACTCTTTCTCAAGTTTGTAC	CCAAAGCAATTAGATTGTTGCAGGAAC
A09	CAAAAGGCCTAATTTGTGCCAAAAATA	AAGTTCATTATACAAACTTTCTCGGGTCTTA
A09	CCAAAATTTTCCACACGTCTTCTACTTTT	TGGGTTCATATAACGGTTGCAAATATTTGT
A09	GCGACTTTTCGAGATGCGATGTAA	GTGCATTCTATCGTATAAACCTAACGAAAGG
A09	AAAAGATGATGCTTTTGAGACCTCTGAC	CTGAATAACACTTGTGACCGAATGTTTG
A09	CAATGGTAATCAGCATTCTCCATTGTTTT	CCGATAAATGTCTAGGATCAACTATATGCAT
A09	GAACGCTTGGTTTATTAGATTCTTATCACCC	GGAGCGAAAAAGAGAGTAAGTTTTACATTTT
A09	CCAGCAACTTCCTCGATGAGAAA	GGGAGATTATAAAGGGAAGCAAGTTCATTT
A09	CTGATTTTCTCTCGTTTTTTCGCTCTT	CATATGCAAAACTCATGACTTGGCTTG
A09	CATTCAACAGTTCATTATGGCCAAATGA	GTGTCAAAGTTAGAAATGAGGTAGAATGGAT
A10	CCCACATGTCATATTATTATGCTGCCAAA	CAGATGGGAACTAGGTTGGTGTG
A10	ATCAACAACAAATTAATTGCTCTACACCTC	GAGGAGAGATGACTACTTCAAGTAATGCA
A10	CAATAAATCATTGTCACATCAGCAACCAA	TGAACTACCCACATGACATATGATACTCAC
A10	GGTGCCTGAGTCAACCCATAGA	TACGTAAACGCTGCCCTTACAAAA
A10	AATTTAGGAATCACTCGAGGACAAAACAG	CCACACGAGTGTGTGTCCTTACC
A10	CAAGCTCTTCAAATCTTAATTCATCACCTTA	CCATGATGTTTCAACTATTCTTGGGAAGACC
A10	TAATGAACGAATGTAGGTTTCATGAGTTCCA	TATGGCCCCAAAAGCTAGTTTGTCTG
A10	TTGGACACATTGCAGACACTTTATAAGAG	CAAGGCCCTTTAAATAGGCTAAGATTAAAGT
A10	GGCTTGATTCGTTTCATGCGAT	GGTCATGTTAATGTAAGGTTACACGAG
A10	GACGTCGTTTTGTAGGGCTATATAAGTA	GTGATGGCTATAGTTCTGCCAGTTTC
A10	GTTATGCGGGTGGTGTAGGAAAC	TGCATCATTGCGATGGAGGAAAA
A10	GTCCACAATTATTTGTTGGTGTGATTTAGTT	GGGTGAGCTATAAAGCTCAGTGATACTAAA
A10	GTGTTGTGTGGAGGTTTTGTGTTTG	AAGAAGATCGAAATCAAAGGCAAACTTAGA
A10	ATCAGTCAGGGCACTTAAGTATGATTGC	ACTCAGTCATAGGATCCAGATTGGTG
A10	ACGAGTGAGTTAGAAGCCCAGTAT	AATTGGATGGATGTACTCATGTAGTCCTAG
A11	ATTGTAAAGTTCAACCTCCTATGTGGAAAC	CAAGAGTTTTTCATATTGGGACTTGAACTTTG
A11	AGGCCTACTATCTATGTTTGACCCAT	TCAGTTAAGAGCGTCAATTCTATGAACAATA
A11	GGTGAGCATGCATTCTTGTGATATTGG	AGAAAGGGATTCTTTTTCTTGTCTGTACAT
A11	CCTCATTAGTCCTAGCTTCAATGTTTGC	GACAAAGTGCCTAAGAACTTGGTTTCG
A11	TTTTTGGAAATGTGAAGCATGTCACTT	GGACAAACACTAAAGTGAGTTCTTATCTCAG
A11	TTTTTATTTTGGCTATTGGGCTAATTGGG	TATCCAATCGAATAGCATCACATTTGCTC
A11	TGATTTAACATGTCATATCAGCTTACCGTTA	TGAATCCAAATTTTGGTTAGGTTCAATTCGT
A11	TTCCTAATTCCTATCATTTGCTTGGAATCTT	GACAATATTCTCAAAGATGGAAAAGACAACGG
A11	AAGGGTGGACAAAAAGCTTGGTAA	CTAAGCCGTGTGGGTGATTTAATTTTTTC

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A11	ATACCACTTTTCGAGTCTTACTTAAGCAGG	TGTTTCTAACTCGAAACCACAATGAAACA
A11	GGTGAAGAGTAGGCTCAGAGATGG	ATGACCACCTCTCATAGACCACAC
A11	AAGCGAAGATCATCGAAAATGTTAAGCG	CGGACAGTCTCTAATATGGTACTCTAAGAA
A11	GGCGAGCTAGGAGACATACAAAG	CCAAACCATGAACATTCCAAGTGGG
A11	CAGTCCAAATGCCGGTTAGAATCTG	CCACTTATTATCCCATCGGTACATGAGAT
A11	GGTATGTATCATACCCATTCACGAATCAAG	CTCCCAATACAATGATGGCTAATGGAAG
A11	GACTTCTAGTATAATGGCCTTCATGGTACT	GAGCTCATCATGTATGGAAGTTTGTAGTCTAG
A11	GCTTTAACTTTACCTCCATAATACGCGAG	TAACGCAATGGGTAAAGAGCCTTG
A11	AGGGAAATGAGTTATGAGTTAAGCCTTTTA	CTTTATATCGGTGAACCATGCCATTAGTATA
A12	TTGGAAGGAATGGTCCATGCAAT	CCACACACATGCTCCTGTTTCTT
A12	GTGGCCTCAAACTACCATTTTCGA	GCCGTAAGCTCATGTATCATATAACATTTCA
A12	GACATTATCTAAGGTGCAATAGCATTTCCC	AATCAGGTCTACGTTGAATCGTCTTCT
A12	CCAAACCCATTCAGAAAGTATCATATTCAA	GTCATCCATGGTGGTGGAGTAAAGG
A12	TTCAGACCCATGCCAAACAAAGAT	AAAAACATGAGAGATAGAGAGAGCCTTTTTT
A12	TAGGCAGGGTTCCGTCTAAGATG	ATCTTAACCACTCGGCAAATGGAG
A12	ATGTCAATGAACTAAAACACTCCTTCCAC	TAAGGAAGCTGTTGCACGGAATAAG
A12	GTAATCTTGATATAAGCCTTCTCGAGCATA	TCAAATCATGTAACAGGATGCTCACAATAG
A13	CAGGCTCAAAACGAAGTCGTTT	GATTAAAATAAAATGCGCAAAAACATACGGGG
A13	CAAACACCTACCGCGTTGTTTTT	GGCCGAATATGTGCCATAAGATGG
A13	TGTTTCGCCTAACCTGGACAATC	GTATTTGGGCAATTGTGAAGTTTTTGGT
A13	ATAATATTTGCAAACCTACTCATCGGATTTAGTT	CCATACTCAGATCCAATTATTGGATTGTGTAAAG
A13	CCAAGTGTGTTGCCTTATAATGATTTGGT	TGCATGAACTAAGTGTGTAGTTTACTTCTA
A13	GCTGGAATAAAAGGGATTGATCTATCAGCG	GTCGCATATATTCCCATTCATAATCTACCAT
A13	TGGAGCAAGTTTTAGGCTTTAACAAAAAG	TCCAATCACTTTCCAACAATCACCTAAAT
A13	ATCGACACGGGCTTGAGAGAGTT	GTCGTGGTATTTATTTCACTCAAGATTGGG
A13	TAGACTCGGTGAATTCGGATTTTTGAAT	GTCCCAGAAAATACAAACTCTCGTATCTTAA
A13	CTCTCGTTGACGAGCTGCATAAA	GCCATCCGAATGAATGTTGAAGGAC
A13	CCGGTACACACATGATATGTTTTGATGC	GTGAGTTTTTCATTGGTTTTCTTCATATCGTT
A13	AGAAGTTCTCTAAAGTTGGAATGATCTGTGT	GCTTGAGTAACCAAATCTTCATGTAATAGGG
A13	GCATATGAAATATTGGGATGAGTGCAAACT	CCATAGCTCATATAGTTGTCCATCGGTAA
A13	TACAATTAGGACACCAAATCCAACATCAA	TTTCAACAGTTGTACGTTAAGATGTTGCC
A13	CCAGAGAAGCATAGAACTTATCTAAAGTCCC	AAAGCATGCCACAGTGTTTTGAAAC
A13	AGTAGTGTGGATCTACGTTTTTGTGTGAG	TGCTTACACACGGAACCTTATGTAGGT
A13	CTCGTTACCTCCACAACCAACAC	CCAAGGCATGATTTAACCTAAACATCACA

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A13	CTTTTAGCTTGTTTCCTCCAAACTGTT	TATAACGACGGTGTGATTGAGTGTGT
A13	CGACTTTATCTTTTGATGCAGTGATGAC	GCTCTGCATTGAACGTTTTACCTCTAT
A13	CATATTGATATTGCTGGACATAGTGACGAC	CGTTGCCCAACATCTCTATGAGGA
A13	GCCCTGGTCAAGAAGACCAAAAT	TCCATTGTCTCAATATGAACAAAAATCACCC
A13	GGGCCAAATCTAAAAATAAAATAAGCCACTG	TCCAGGATCCGCGTGTTTTTAATT
A13	GGGTGTGTCCACAAACAGTAAC	GGGAGGGTGACTATAATGGGAGTTC
A13	CTTAAAAACCAAGTCTGAAGTGCTTCATG	CACTCTAGTAGACCAGAGGCATAGAGG
A13	GAAATGAGAGATCCAGTTATCTTCAACGAA	CTCTCTAACGTTCTTCTCTTCCAAACC
A13	ATGGGTATCATAAAATTCGACAACCCATC	GGCATTAATGTTTCAGATTCCTAACATTCTT
A13	TCTTTTCCAATCTTCAATACTTACCGTTGAT	GTGAAATTTTGTTAGGACAACTACACCAAG
D01	CACATGAACGATCAAAATTTATCAAGCCAA	ACAAAAGTGACTACTTTTGAGTTTACCCTTT
D01	CTTCTCCAAGGTTTGTTGATGTCAAAGT	TGGAACAATTCCATTATAGGTTTTGGTCATA
D01	GGAGCAGACCAGTTTTGTGCTTAA	GCTTCAACGCATTATCTTCTTATATAAGGGT
D01	TGTTTATTGCATGTTATGCTCATTTTGAGAC	CGGTATCGTCGGCAATTTCAAGATG
D01	ATGTTCTTCACGTTCCCGATGTG	TAGTCGACAATGCCATAGTGAAGATGA
D01	CAAGTGAAAGCTTGCGGAGAAAAAC	ATTAAAGATTTGCTCCATCGTACGAATATGC
D01	ATAGAAGGTTTTTACCTGAACACTGCTTC	CGAAAAAGCCTATTTTAGCCGTTTTATCTCC
D01	TCCGTGACGTCTTTGTCTTCACG	TAGGTATTGTGGTAGACGTCATCCAA
D01	GGAAGCTTATTTACTGTAGTTGTGTGTCAGTA	AATAAGAGACAGAGGTAGCAGAACAAACA
D01	TCCGTAGGGCGAATCTATCCTTT	CGCATCCAATTAAACCACATGCTC
D01	TGTCATATTATAGTCCAAAAGTGTGGCATA	TAAGTATAAGACACCTAAGGTACAAGGCATA
D01	TCATTTATGACGATACACGAAGCATAACAG	GAGTGAACCCCTTGAACAGAAGCTTAA
D01	AGTCTATACCAAATGGTTTGCACCTTAAGGT	TTCCACGCGACATCAATGAGTTAC
D01	GCCTCAATTGGTAATGCCACTTC	ACGTTTCTAACTGAAACAACCTTCAAACAAC
D01	TCACCAGCAGGTCTAAGAAAGAAAGG	ACGAGCGATGATATGACTCTATATACGGA
D01	GGTAACGTGTTGTTTGTGCGCAG	GAGCTCATTTGGCGAAACTTTGAAAA
D01	TGCGGTTTGGTTTCTGTGTGTAG	AACATATGAAAGTTCTAAGTTGCATACCCAT
D01	GGGAGGACTTCAGTCATTTAAAGGTT	AACAGGTTTCAGTGTCCAAGGAAGC
D01	CGGTTTAGACATCACAACAAGTTATACCTC	CCTTAAACACAAATAAATCTTCCAGTCCAAA
D02	ATTGAAATTTGGGTAACCTCTTCGCATTCA	AATCTCTCAACGCAGGGAATGAGG
D02	CACAACAATTTATGTACCAATTTATCCGCAA	TCTTGGAATTCGGAAGCTCTAAATATCATT
D02	AAGTGCAAAAGATACAGGGAGTGAAAG	CAACGCCAGGATTGTTTAATGCTTTC
D02	AGCAGATAGTTAGTTAGCTGGTTAGCTA	GTATTCATGGCAGGAAAAGCAGATTGC
D02	TACTGCAGAAGAGACCGGTATAGTATTTA	CTCTCAATTAACCAATCTTGGTATGGCTTAA

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D02	TACAAATCGACGAATGGAAATGCTAAGAA	TTTCGTAGCACTTTGTTCTATCGAGTC
D02	GAGAAAGTACTGATAATCTCATATGGTGCAT	GCTTGTTTCAGATGTGGATCTAAAGATCATA
D02	GTAAAGGTTCTTTGGCAACGATATGGG	ACCTAATCAAGCAAATAAGGTGGTTGAA
D02	CTCCTAGAACACATAACCACTAAAGTAGCA	TCCAAGCTTACGTCCGAGTAGTT
D02	CGTTAGTTCTTTCTTTTCCACTATTACGCC	ACGCTCCTCTCCTAACAGAACAA
D02	GGGCCTAGTTGGGCTATTTTCGG	GGAAAGAGGCTATTTAAAGAAGAAAGGCAC
D02	TGGTTTGTGTTGTTTGTGTGTCGAT	CTTTGGTAGTGAAAATTGAAAATTGATGGCG
D02	GATAAAATGGAGTGTGAACTCAACATGTT	AGATTCTTCGTATAAACCATCTTTGCTAG
D02	CATCAAATTCACATGATACAACCACCTA	ACGTTACCTGGAATACGGATGAACTTATAA
D02	GAGATCATTCGGTTTTTGGGTCTTAAATTTA	AAGAGAGTTACATTGTTTCATGCACATAGTC
D02	TATCGGTACCCAACAGCCAAGTA	CACCTTAACTCAAGTTTACGACAGTC
D03	GACACGAGTAATGGAAGCAATTCCT	AGAAAGCCGATTAGGTTCAAAAAGTTATTTGA
D03	TGGATTTTGTCTATCACCCATTCTTCAA	GCTTCAATATAGCAGGGAAGTCTCTG
D03	TTTTCTTCCGTTCTTCATCTTCTTCAGTA	TGGCTGCTAAGCATTACAACATAAATATCTA
D03	ATACCACTATTTGTTGTTCACATCTAAGCAC	TGTAATGGTAATTAATCGGCCTTTTAGTGAA
D03	TTTTAGTACCCTAGCACCCATATCTGAT	GTGCTTCCACAATGCCCTATACAG
D03	GGTATGTTTTGGTGCCTTGGTCATATG	GAGGAAATAGGGAAACATAGTCGTGTG
D03	TTATTTTCTCTTCTCCTCCACTGTAGCTAC	CGATGGTGGTGGTCTATGGTAG
D03	CTGAAATTATGTTGTGTACTCACAACCATCC	ACTCATCTATCCTACACACCGAGTTG
D03	ATTTTCAAAATCTGCTATTGTGGTTGCTG	CGGAGTACTCTCAATACTTCGTTGTACTAAT
D03	CCTCAAGCCACCAACCTTTCATT	GAAGAACCGATACGATTGGTAATTGTCATAA
D03	GCAAAAGAAATCAACAAGAGGTGTATCAAA	GCCTACCATCCTTATTTGTTGGTGAC
D03	TCAACCGAAATGACGTGTCCAAC	GGTTGATTTTGCATCAGAAATAGAACCAGG
D04	GTAGGCCCAAACCCAGCAGTATG	CGGCTGCTGGAATATCATTTTCGAC
D04	CGAGCTTAACTCGAGATATAATCGAGCT	CTCACAAGCTACTCTAGTTCGACTAAAAAA
D04	ACATCGCTGACATTCTTGTCTATTGGC	AAGAGTTTGTGTGCTTGGTGCATAGAGC
D04	ACAAGTTAAGTGCTTTCTCCCAAATACAT	GAACATTTGGCAGGCTATAGTAACTTGT
D04	GTAAGATGATAAGAAAATGTGCCGTAGAGTA	CAAAGCTTCAAGAGAGATTAAAGGTTATCCAG
D04	TGAAAGGGCAATGAAGATTTTGAGGTAA	AATTTCTAAAAGGGCTTCCTTAGCAGTC
D04	ACAGACTATAAGAAGTTACGTCTCTCGATA	CTTAAACTCGCTTTCAGCTCTCTTACG
D04	CATCCAACTAAGCCTAAGTACCCAA	CCCTAGGAGATAAGCATTTAAGGTGAAAAAT
D04	ACTCTATGTGTCCCTACTATGGTATGGG	TTGTGTTAGTTTAAAGAGCTTTCATAAGCTCA
D04	CTGTCAAGGTGATCTGGCATAACAC	ACTTCCAATGGAGATGAAGATGATACATGC
D04	TACGTTGCTCTCAAGTAAACCAAGGT	GGAGGATGATATAAAGTGGAGACTGATAGAG

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D05	CCTCCTAAATAGTTTCTGCCAAAAATGACT	AACCTTTACCTATTCTAGTAAAGTCTGGTA
D05	AAACTCACCGGTGGAGAAGATGA	TGACGTCTGAACTCAAATTGATATTACTCAT
D05	GGTAAGGGCATAAGATCTCAAGTACGA	TCTTCTACTGACTTCCCAGTAGCAG
D05	ATTGAATTGGTTGAAAAGTAAACTCGCATT	GCTTTTATTGCTTGTAACCTCTCTTTTCATA
D05	GAAGGCGTGACCAATGTTACCTAT	CCCAACACTAATGTAAGGAGAGAGGATTATC
D05	TGACTCTAGAATTCCCTCCACAATCCTA	TCGCTCCTTGTTAGGGTAGTCAA
D05	AATTGCAATGGAATAGCTTTTGGATAGCA	AATGATTTTCTAAAGTGAGAACAAGGGACTT
D05	GGAGAAACATGTAAACTTGTAATGCGTT	TCTAGGAATGTGACGAATTCTTGTCTTTCA
D05	TCGTCAAACCTAGCTGTAACATCCAAGG	CCTTAAGGAAGGGTGAATGTAACACCC
D05	CACGTCTTCCACGTACCTACAGC	CCCAAAGAGAAAATCACCTCTCCAATTTAC
D05	AAGTGGTGGGTCCAAGATTCAAG	TCTCATCCTCACTAAGCTTTAGCTTTTGC
D05	ACAATCTGGAAATATTTAAGATGGAGGAGGATAA	TAGACACTACTCAAAGCTACTAACAATCCTT
D05	AGAAAACCTTCCCTACAACCTACTTGAACTTT	GGGTCAAGCAAGACCTTGTTAAACC
D05	ATTAAAGTTTGTCTTGTAAGTTTGGGATTTTCG	AGTAACGTGGGCAAAAATTTTGGGG
D05	TGCATGATCTAGTTCTCTAGATGCATAAAA	GCACACGGTCGTGTATCTCTTGC
D05	ACAAACACGAACTAACTCAACATTTCACT	TTTTGACGGGTGAGTTTTTGCAATTT
D05	GCATGTACCTGCAACGAACAACA	AAAAAGCAAGCAAATTAACACAAATAAAATGTAA
D06	TGGAAAATCATTAATCAATCAGCTGATCGAT	GAAATGACCTACAAGATGACTTGACAAAAAA
D06	CGCTAATGATGGGCAGGGTAAAT	TCTATCAAGGTGGTTCATCGTCCTAAC
D06	CTAATTAAATTCCTACGCAAGGCAAGTACA	AGCTTCTTCTACTCTCTCTCATTTCTTCTA
D06	GTAAAAGGGAGTGGTCGAAAGTAAGAAT	TCATACTTTGCATCGAACTTGCAATTGG
D06	TACAGGAGAACCAATGATTACTAATGCTTGA	GGCCATTTACCCACTAGCTTTATATATTCTC
D06	TCCTTTTCTGTTTCTTCCTATTTTCCCTG	AAGAATTTTCCGTGGCAACGTTTAAA
D06	ATCCAATGCAATAAGAAGGCTTCTT	GATCCTGACTTCATATTTTCTCAGGGTATTT
D06	AAGAGCTTTTGTTTTAACATCTGCCATTTG	GCAAAGTACAAAGCTTTAGCTCAAAGTATAT
D06	GAATGCATGTTATGGTAAGGAATCTGGTAA	ACCGTTCTTTAGTTCTTTTCAGAAGGTG
D06	AACTGGGAGTGTTATCGTCGTTTCG	ACCGCTACAGACATGGAAATCAACC
D06	CTTGGTAGTGGCAAGGAAAGGTC	AAGTTGATTTAGGAAAGGCCTTAGGAAATT
D06	CCCTCGAACCTCACTTCAACTCC	GGGACACAGACGGAGATTTTGAAATT
D06	CGACCCTAAAACGCGATAGAAATTTG	CCAAAAATTGCCAAAAATGGCTTACA
D06	CTGGACAAAGAACTTGGACTGTTGG	TGCTGAGAGAGAATAATTGGTGTAAGTTTTT
D06	TGGTTTCCCTCCCTAAATTCATTTATGCAT	TTTTAGGGTTTTCTCCTCTCAATTTCTCATC
D07	GTTTCTTGCTATTTTCTCATGGATGACAT	AGATGAGCACATGCGCTTCTATCA
D07	TCTAACCGTTACAGTATCCAATCTCATCAC	TGCGAAGGAATGATCTTTGTCCAAG

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D07	CTGGGAAATTTAGTTCCTCTAGTCTTTTGAT	TTTTGTTTTTGCCTCATGTGCACTG
D07	CCCTTAACCTAGGCATCCCTCTAATAGC	GTGACCAGGGCATGCTAGAAAAA
D07	AACTGTCAGCTTATATGTTAAATGGTCCAT	TAGAGGGTCTCAGGTCTCTACCTG
D07	CTATCGCTCAAAATTCCTTAAGCCTAA	TTGTGTTTAAATCTAGCTAACGGTAGTGTTA
D07	TGGAATTAGAGCATCGGACCTTCTTAG	AAAGTCTCCTCGAAAGAAGATCTTTTGTAGG
D07	TTTAGAGTGGCTTTAATGGGCGATG	CTCACTAGGCTATTACATTCAATCACATT
D07	TTGTTATTCGAAAAGGATGTAGTTAGGGTTTT	GTGTTGGGTCCTTGAGTACTATCATGC
D07	TTCTTTTCTTAGTCATCGGCCTCAAT	GAATTTTTTGAAGATCTAGTTCTTTTGCAGAG
D07	GTGGACATAGCCACTAGAGATTGCA	CAGCCTGTCCTACATGTCTGTCA
D07	TTGTGCCCTAACTTTTGCTTAAATTGTTC	AAAGTTGGGAACGCCTAGTATCCG
D07	GTCTTTGCAACCAAAACAAAAAGGCC	AACATGTTTCGCATGATTCTACAACAATACA
D07	GTGTCTGACTCCGTGAGATCATCA	CATGCCTTAATTCCCTATTTGTCTTAAGGA
D07	GGACTCACTTGTCGAAATTGTGGT	CATAAACTGATGAAACCAACCATTCATCATTT
D07	GTCTTAACTAAACTCTAACACCACTTACCAC	GGAGGATAATGTATCAAGTTATTGTTTGGCA
D07	GTTATAGTGGGAGCATGATTCCACAA	GGAATGTTGGCGGTATAAACCTCG
D07	TCAGTCTAGACGGGCTTTTTGACA	TGCCTACCAAGACTATTCCTCTTTGAG
D07	TGATTGTGTATCATGTTATGTACGCGTAAT	AGAAATTTAGTCCACAGACTCATTCATGTA
D07	GAGCAACATTTGTTTCTATTTTTCTTTGCGT	GGAATAATTCAATCCACCCTCCACAAG
D07	TGTCTGGTTCAGACTTTTATGTTCCCC	GAAACAAATTCCTTGATTGCGAGATGTC
D07	GATCCACAGAAAACCAATCTTTCTTATTCT	TCTTACGCAGGTGTATAACTCCTTTGC
D07	CTACTAGAGCCTTTGCGGGTTTC	GGAGTGTAACAACACCATGCAGTAC
D07	TAGATGTGAAGGTGGGATTAGGGTC	CTTTCCAAGCAGTGAGTCAGTTCTG
D08	TCTTAAGGCCTCTTGGTATCACCTT	AAAATAATGCGAAACCGAACATCGATACA
D08	ACTGAAGAATGGAACCGAAAGCAG	AAGTACAGGGACTACATTACAAATTTTCGTA
D08	ACTTCAAGTTGAAAAGGGTTCTGGTTC	GTGTGATTTACCTAAATACTGAGCTAGTCAT
D08	CGATTATTCTGTAAGTCGCACCTGTTT	TGTTATTTTTTCATTTGCAGCTCAACTTCAAA
D08	GGGCTGCATTTCAAGGTCTAAAAGA	TGACTTAGGCGAGTTGGAGACAA
D08	CTAAGGGCCAATTCGGGTAGTTC	ATTAGAAATAGAGGGACTTGTAATTCGGTTA
D08	TATCTCATGCCAACAACCTGTACCAAG	CATCACAGTCCAAGGTTCAGTTAC
D08	TGCTAAAGTAGCACGCCAATTTTGA	GTTAACACCTCTTCCATGATGAGCTT
D08	CAATTTTCCCAAGGCAAGGCTTG	GAGGGCAATACACTTATGATAAGGTCATTG
D08	AGAGTGAGAATAGGATCGAGCTCAAG	CTCTAACCAGTTTTTCAAGTTAAAGAAAGGCC
D08	CGCCATAGCATTTTTAGTTGTTTGCT	CAAGTAATAAAGTGATGAGAGAGATTGCCTC
D08	CTCACTCCAAATTCCTTTTTAACTCATACGT	GTGTTACAAAATTCATAACCATACACGTG

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D08	AGGAAGTATGACTGGTAAGATTATGAGTGAA	ACATATTTGCCACACTGGTATTTTCTCATT
D08	AAGGATGAATCATGCTTTCTTCTTGAAAAA	GAGGTAAATGAAGTGGGTTTAGAGGTAAGA
D08	TTTGCAAGAGGAAAAAGAGTATAAGTCCAAA	TTGCCTATCGCTTTTATGATGTAAACCTA
D08	CCTTAGTCTTAGGTGAAGTGCAATGTT	CAAACTAAAGAGCATGCTTCAGATACGG
D08	AACATATGATGGACTTGCACCTTGGTTAA	AAATGGTGGTGAAAATAAGGAGGCTAG
D09	GCTTGATCAAAGCAACGATTTTCTAGCG	TGATCTATGAACCTTAGCCAGTGAAT
D09	GTTTTGGGTCCCTCTAGGTGAAGT	AGTTTCAAGTTAGAATCACACAACTGGTG
D09	CGAATGTGGTTACGTTCCGATTTT	CCCTTAACAGGCCAAAATTTTCTAAAGAAAC
D09	TCGTTTCCTCTCTCCGACGAATAT	TGGGAGATTGAGTTTCAGAGTTCACG
D09	CTCGATTCTTGTTTCTTGCGCCAAAAC	AAACCAACATTTCTTAAACAAACCCAAA
D09	GATGTTTTCTTGCTGTATTGAAGTGGT	CGCCTTCACCATTGATAAAATAATGTCAAAA
D09	AAGGCAGCAAGGTATAATGAGTAAGACC	GCATTAGTCCCATAGTGGGCTCTATG
D09	CCAACGGCATCACACGAAATTCA	TAAGAAAAAGGGTGGATCGATGAGATTGT
D09	CGTTTGAACCTCAGAATGAGAAGGG	GTAGGTTCTGCCCAATCTTCCAC
D09	CGATGCCGATATCATATCTTGCATCC	TGGGTAAGGATTCCATCCTATGATCCC
D09	CCCACTGGAATGGGTTTTGAAACA	CTGGACACATATCTTACTCAAAAAGAGGTTC
D09	CGGACGTCTGATTTCTCTATTAAATCCCT	ACCTTAAACACGGTTATAAGAGGTAAAGGG
D09	CCTGTTGTCGAGGAGAATGTGTG	GACCTTGGAGGAAGATGATAGTAGTGC
D09	GTGTATTTATGGTAAGAAGGCACCAAGTA	CTCAAAGAGAATAACGACCATGGGTAAAA
D09	CTCTTTGCTTCTCCAATTGTATGGT	GCCAAAAGGCATAACCAACAACCTCA
D09	TCCATGGATGCTCGTTGGAAAAC	AAGTTGTCTGATAGGTCCAGTAATGCC
D09	AGCAAACTACCAAATTGCACTAACATATCT	CATTAGAGGGATAATTTTGTTACTAGACCGATAT
D09	CGATTGGAAAAGTTTGCGAGATTTGAT	CCGTTAAAATAAGCTAGCAAGAGTTGTTCA
D09	ACTTCTCTATGATATCTAATGCTGGACAT	GGGCTTGTGTTGCCTTCCTTTAG
D09	CATCCAACTCACCTTAGAATGCT	TATTGGAATGATGGAGTGGGTAAAACATGA
D09	GGGAAGGAGACAAAGATATAGTTGAATAGTT	GGCGGAAGCCTTAGAACCTATGA
D09	ACATGCCACACAAAAGATCAACATCA	TACGCGGTTTAGTCACGACTTGT
D09	TTGCCAGGCGAACTAAACAATT	ATGTCTTCCTTGTAAGAAGTTGGATGTACA
D10	CACTAGACGATTTCTTCTGGTAACCAAA	AAGGTTTGATGGAATGTATTGTGAGAAGTAT
D10	GGTACAATTTTCATGGTGCGTGTG	AATAAAAATACAGTTTCACAATTTGAATAGCCTA
D10	CGAAAGGTTATGGAGAAGTTTGAACAATCG	CAATGCAACTCAATCATCTTAAGGCTTATA
D10	ATGGCTTAGACCTACAATTGTATGAATCCT	GGCTATAGGATGCTACAACAATTAACGGA
D10	GAACAAGTCAAGCTCAACATGTTGAA	GCTCCACCACCGGATACTATGTG
D10	AGATAAGCCAATTGATGAGTATGATGGAAGA	TATGGGCTTATATTTGACTCAGCTATCAG

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D10	ACACAAAACACCCTTACAACATGCC	ATGAGGTCTCTATTGGAATTGTCAAGGTATG
D10	TGGTAGGTCAAATCACAAAACAAATTGTGT	TACCTGTCTAGGATGATTTACAAC TAGGAGT
D10	GTCGCCACATGACACCTTAAAAGC	ATTAAGGTATTCACCGTCTCAGATGTGG
D10	TTAGATGTGGTCAAGCCATATTCAAAATCTT	TTAGGGTCACTATAGGAGAGAATGAAGTGA
D10	CTTATGTGAAAAGTGGTGGACGTCTAA	CGAGGGTCAATAGAGGGATGTTATGATTAAT
D10	CCAAGGCCTTACTTTGGGAATC	TACGAGTTGGAATGAAGTCTTGATCGA
D11	TCAAACGTCAAAATTTTCGAACGAAATTTGC	GGTGACCTGTTCGGAGGAAATTTATATGC
D11	CTTCCACTTCCACATAGCCGTTG	CAACGGACGAAATGATTTTGGAGTTG
D11	ATTCGAGTGAGAGTGAGAGTGATAGAAT	CTAACAAATATGGTTGCAGCAGCAAA
D11	TGAGATTGCCCTCAGTTGCAAAAG	ATCTAGGGTCAATCAATGCATACACAATAAC
D11	TTCTCGTTAAATTTCTCATTATCGTTGGACTT	AAAAATTTAGTCAAATTTCTGGCTTGGCTAG
D11	GGTATTACTTGAATCATAGGTTTGCTTGGA	AAAACAAGTTCGAAACTGAATGAAGACCA
D11	ACAAGCAATTTCTCTTGACTATTTTCGTATA	GTGAGCTGCTTTCTTTCAAGTGGC
D11	ATGCGTCCACACCCAAAACAAAAGA	TGACTGCTCCCATTGAGCAATCC
D11	TTAAACACCAACAATTTCTGTCAATTTGCTT	CAAAAATTGAAGAATCGGGTGTTCCTGTC
D11	GGGTCATCGATGACGCTATTAATCTT	CCACTCAAGTAATCCGTAATACGGTTATTTT
D11	GTCCGTGTTTTTGTGAGATAATAGTTGTT	TTACTGATATGACATGCTAGGAGGTTCTA
D11	CAATGCAAAAGTATGACACACCGAAA	TCTGAGGGAATCTGATGAGTGGTTAG
D11	CGATTGAAGTAGAAGAAGAACCCTTAACCA	AACACCATTTGTTATACCCTCGAAGTTTAA
D11	GCATCGACATAAAATAGTGTTGATTCCAAA	TCAACCAAATTCATCCAATTGGCAAGT
D12	TTACAACCTGGCTCCTCTATGTTAAATGT	GCTCCTGCAATGCTGGAGTTAGC
D12	AAATGGGCTCGGTTTGGACTTAT	GAAATTAACCCACTTTGATGAGTAGTGGAC
D12	CTCTTTATAGAGTCCAAACTTAAGCTCGTT	GGTCAAATGAGGCCCATTTAATTAATTGACC
D12	TTTTTAGGTTTAAATTTGCCTGAGTCATCAT	TGCATGGTGAATGAAGATCTGTGTTT
D12	CGTGTCTGCCCTGCACTTTATTT	AGGTCGAAACACACAGGAATACGA
D12	AAGAGGCAGACTGTTTCATTATTCATATTTGA	AACCAAGCATAGACACCTTAAGCATAATA
D12	GATTTTCATCTAACAACTCAGAGGTTTCAG	GCTAAGCGTTTTGGATGTGTGTTTGA
D12	CTCGGCGTTGTAGTGGTTGTTATAT	TGAGAGTGTGTTGACACTTTGAACAG
D12	CCAAATCTCTAATTGATACTCCTCCAATGTG	GCATAGCCGTCAACCTCTTATAAGTATTTTT
D12	AGGAAAGCACTCAACTGTAACCTTACAAATA	CAATTTGGTCTTTCCATCTAATTAGACACG
D12	CGAGTGACTAGAAAACGATAGGATTGATGA	TGGTGATGAAAAGCGTAAATGGTATAGGT
D12	TAAAACAAAACAAAGGCTAATTGGTCGAAAAG	AAAATGCTAATGGCAGCCTACTCTATAGA
D12	ATTTCAAATAGGACACCGGTCCTTAAAAGAT	ATCGAGATTGGAGATGAGCTAGGTAAT
D12	GGAAATACATTTTCAAGCAACATCATTTGGA	AATTTAACGTACAGGGACTAATTTGTCCAT

表 A.4 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
D13	AAAACCCAGTTTGAAGAAACAAATAAACCTT	CGTATGGGATGCCAAGGGTAAAGG
D13	AAATACAATGCCTCACGATATGCTTTTAA	AAACTCACTGAAATTATGACATGTCTACGTG
D13	TGTATGATAGACACGAAAACCTCTAAACCACC	GTACTTGAGGAACAAGGAATATCAGATGTA
D13	ATCTAAAGCTTCGAGCTCAACCTAAGT	GTGGAGTGGTTACAAGTAATCAACTAATCTT
D13	CCTGGTCGCAAGTCTAGAATTTTGA	GACTCGCATGGGAGTTAGAGATCG
D13	AGCGCCAGATGCAATTATTTGTCTG	ATATGTGCACCAATTAGTCCGCATG
D13	TGTGTTTCGAAAACCATATCGGATTGTG	GTAAAACTCGTTTGCCGATGCATG
D13	CAAAATGACTGAGACACGAGGTAAGTT	CCTTAAGGCAATCCGATTGAATTAACATACT
D13	GGAAAACCTTCAGATCTGGCCCTTTT	CACCTGTGTTCGGCTTCTAACAC
D13	ACACTAATTCGTTGATTTCAATTGCTATGCT	TTTTGAAACACGATAATTTTTGAAACACGAG

A.5 花生 MNP 标记引物

花生 MNP 标记引物见表 A.5。

表 A.5 花生 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A01	AGCTTTTTCTTTTCCGTGTTAGGAG	AGAGCATGGGAAAGAAAGATCATCT
A01	GATTAACACGTA CT TGGCCTTTTCA	CCTTTCACCGACTTGT TTTCCAATAT
A01	AGGGCAACAT TGTAT TGTATGTT CAG	CTAAGACTCTCCTAT TTTCTCACCCG
A01	ACGCCAAAAGATGAAACCGATTAT T	TCCTTTCTTTCAACACCAACAACAA
A01	AAGATCGCT TTTGGTAGGGTCATATG	AAATCTTACCTTCT TCTTCTTCGGC
A01	TGGTCTTTCAATGGTGATCTGTTTG	AAACCACAAAATACTTACCCCAACC
A01	ATGCATGTTGATAAATGTCTCCGTC	TGGTGTCTCTATCAATGGAGAACCCT
A01	CTTCTGTGGCACT TTTACACACAAAT	GAAGGAAACATCTTCTTGAGACGC
A01	TGTGTCTCCTCTCTCTATGTTAGAA	TCCATTTAGAATTAT TGTATCAATGTGCA
A01	AGAGTGACCCATTAGACTACCACTA	CCGCTCAT TACGTATGCAACTTAT T
A01	CTCGCAATCGGAT TTTGAGTATTGA	AGGAGCCTTTGAAGAAAATGGGATA
A01	TTCTTTTCCAATGCGGGTAGTAAAC	CCCTTCCATCAT TCTATCCTCGAG
A01	ACTGGTGTCT TTTTGTGGTAAGTTT	TCGAATTTGAAGAAAAGAGAACTAACA
A01	TAACAAGTGCAAATCCACCATCAAA	TTGGCATGTAAAGAAGCTTGCTAAA
A01	CACTTTCTCGCTGTCTTGTAACCTT	AATCTCCAAC TTTCTCACTTGAGT
A01	TTCTCCTTCTTTCTTCTCTCCCTTC	AATAGCAAACAAGTAAAGGAGCACC
A01	CTTGATTTTCAAAATGGCGTTGGAC	CTAACACAATTGTGGTGTCCAATGA

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A01	CTATACCAGCATCTGACTCACAAGA	TCCATGGAAAGGAGAGGACTATTTTC
A01	GATGCCCGCAAATATTCATGGATAA	CCTATAACAACCTAAGTGTGGGGACA
A01	GCATCCGCAACCTAATTAGCAATAT	CTTTCCATTAAAGCTGGCCTGTTAG
A01	GAGAGAAGCACGATTGAGATGAAAG	CTAGAGCAGTGACAACAATACCTTT
A01	AGATTTTGGGGGAAGGAATAGAGAG	GGGTTAATCAGGAATCGGTCATCTA
A01	ACACGTTATAACTTGGCGTTTTTCT	TCCATCTTAGGCTTCAAGCTATCTC
A01	AACACTATGTTCTTCTGAAGCATGC	TCCTCTAGGTACTATCCAAGACCTC
A01	TATTGTATTTGGCCGAAGAAGCATC	TAAGGATGATCAGGACGGTAATGG
A01	TGAAATCTAGACCGTCAAAAAATCCG	ACTTAGAGTTATGGCTAGGCTCAAG
A01	CCAATTTCCACACATTCATTCAAAC	GCAAAAAGCAAGGTTTTTCAACACA
A01	TGAAAAACAACCTCAACAATGTGAACA	TCTACGTCATAAGAGTGTGAAAGAA
A01	TCTTCCTTTGGATCTTGTTCCTCT	AAGAAGAGTGGGTGTGGTAGTTTTA
A01	CAAAGCCTTACCAAAAAATGTGTGCG	CAACTAAAACAATCAAGACTCCGGT
A01	GACAAATGGGAGTTTAGGAAATGGT	GAATACCATCAATTGCTCCTATGGC
A01	CAAGAAATTTCCAATGAAGCAAGGC	CAACCTATAACTCGTCCATCTAGCA
A01	CACTTCCTCCACCAGATCTTCTATC	TTAGTGAAGGTTGGAGTGTTCATCT
A01	TTATTGGCTTGGCAGAACTCAAAT	ATAACTAGCTAAGCCAACTGGTGAA
A01	TGTCTAATCATAAGGTGGGCAAATG	AGGACCGAAAGTTTACATGTTTGAC
A01	CTTTTGTATGAGCCTCGTAAGCTTC	GAGACCAGAACTGACAAGAAAGTG
A01	TTGAAACAGCATTGACAAAAGAGGA	TTTTATCCGAGGAAGACTCCAAGTG
A01	AAGAGTCTCTCCATGAAGACAAACC	CAACCACAAAGTTATTCGGGTACAT
A01	CCGGATCATTAGATAGGAATCCGAA	GTAAGTGAAGGTGCGTTTTTACTAC
A01	TTTCGGGTGTAGTGCTAAATGAGTAA	AAGTATCCAACCTCCTTAGCTTTTCGT
A01	TTTTAGGTTACAAGTCTGGCACAAG	AATACGACGATGAAGATGAAACACG
A02	GAGCACTCCTTGATTTTCCTTATGTG	ACAACCTTAGCAAGAACAAAATCAG
A02	TGATGAACAGTTTGAGATGCGTAAC	CACTTTTCCTTCCGTCTTTTGAAATCA
A02	AGGTAGGGAACGGAATTAAATTTGC	GAAGATTAGCAACCTACTCTGCTA
A02	TCCATGAAAAACAGATACGGGTACT	AGATTTTGAGTGAGAAAGAGAGGCT
A02	AGGGGATGACACTTTAAGAATTGGG	TTCTAACATTTGACTCCGTACCACT
A02	ACTTTAATAGAGTGCTCAACCTGAGT	TGTACAGAATTTATCTAGTGGTGAGATT
A02	GGAGCTCCGTATTTATAACTGTCCT	AAATAACTGAGAGAGGTTGGTTGGA
A02	CACTAAGGTGTCTTTGGTTTAACGG	TTGGTTTTTGACTAATCAACCGCTAC
A02	CGCCAATAGAAAAGCATTTGCAAAT	GGCAACAATGAAAAAGGAAAAATATTGAA
A02	ACTTTTCTCGGAAGACACATCCTTA	ATGGAAGTGTCTTTTTTCGATGTGAC

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A02	TGAGGCTCTCAAACCTGGAATTCATA	ATACCAGCAGTTAGGATAAGCATGT
A02	CACCACCAGATTTTTGCTATTTCCA	GAGATCTCTTTGACGGCAGTTCTG
A02	CATCAACAACAACCTCAAATTCACA	GGATAGGTTGAATCATGTATTCCTGC
A02	ACCAACATGTTATTAGAAAATAAGATAAGAGA	TCGACCTATATTTTAGAAACTAAAATCGT
A02	GCCCAAAATGTTGCTAAGTGTTTTTG	AGCTACAATTAGAGCCTCAGAAACA
A02	GATTTTGCCTCCATCTTTCTCCTTT	CAACATTATCAACATGACCACCACT
A02	TCAGCTTCCTATATTGCCAGTCTTT	ACACGTCATTGTCACATCTTATCAC
A02	ATCACATCAAACCATCCAAAACCTCC	GCCGATTGTGCAATTTCTTAAAATC
A02	GTTACCCCTCACTTAGACTTAGACC	GCAGATTCTCAGTTCCAATTCCTTT
A02	GGAGAAAAAGAAAGGGGGAAATGAC	CACCACCACCACTATACTTCCATTA
A03	CGAGCTTACTAAAGGCCAACTAAC	ATCCTTTTACAAGCTTTCAACACCC
A03	TGTGTAACCAATGCATTAAATTTTCCT	TCACACAAAGATAATTGGCAATGAAG
A03	GTGATTTCTTCCATTGTTCTCTCC	TTTTGTATAGAACTCCGGGGTTTGT
A03	AGTCCAAGTTCGTTTAATGTGTGTG	TTTTCTCCAATTCGGTTCTCTCTCT
A03	CTTCATGCAATTTCAAGCTCTGAGA	ATTAGCGTTAGTTGAGGTGGGTATT
A03	CACAAAAGTTGAAAACGCTAACACA	AAGGTTAGCGGCAAAAGTTTATTGT
A03	GCAAAAATAAGAAGACGAGCCACTT	TCCTTTCCAACAACCTCAGCTACTA
A03	GATGTTCAAATTGCAACTAGTTGGC	AATGCTTCTGTAACCAACTAGTTGC
A03	CAAAGTCAGCTCCTCAAATCTTGAA	AAAGTGGTGACTACTCTGATCTGTC
A03	GAGACATCCAGACTAAAGGTTGGAT	AGCCATTTTAAAGCAGTTCACTTCA
A03	ACTCTCCAATTCCAAATGTCCTGTA	TTGTTTTGCTCCTTTTGGCTATACT
A03	GTTAAAAGGAGTTGCGCAATCAAAG	GTTTCACTTTCAAATACTGGTCTCGT
A03	CCAGCAAAGAGGCTCTTTTAAATG	TCTTTTGGTGTATCCGGTAGTTAGG
A03	ATCAAGCCACTTGTTACACTTACAG	ACTAAAGAATGGCTTTCTGGTTGGA
A03	TGAAAGCTTGAGTTATGAAGCATGG	GTTGTCACAAGGATGGAAAGTGAAT
A03	CTTATCAAACGAGGGGATAGGCTTA	CCAAGTTAGTTTCTTCGATAGGGGA
A03	CCATGGCTTGCACCAATTCTTATAT	GACAAAGGCAACCCTAATCAAAAGA
A03	TGAATGTTGGGTTTGATGTAAACGA	CATACCAAACCATCCAAAACCTCC
A03	ACAGATGAAAAAGAGAATCCGTCGA	TTGTTTCATCTTCATGGAGTGCTTTA
A03	GAAGAAAGCTGACCAACTGAACTAC	CGTCACTCTCTTTTATGTTCTCTCG
A03	AATTCCCAATCCTTGCTTAGAGTTC	TATTATTGGCTATGAGGGAAGTGGG
A03	TAGGTCTCCAATTGAATTGCCAATG	TCATCCTTTTGGTCTACAGGTCATT
A03	GCCCAGAAAATACCACAACTATACC	CTACTGGCTAGAAATTGATCCAGCC
A03	TGATTCTTGATGTGAATTCCCTCCT	AGTGCCCAATAGAGTTTTTAGTT

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A03	ACCCACACACTCCTCACATATTTAT	GGTGATCCATTTAATTCAAGCCCAA
A03	AAGAATCAACTGGTCTACCTCGAAA	AGACAATTTTGAATGAACGCACTCT
A03	AATAGAAAAGGGATAGGGAATGGGC	GACTGTATCAATTTCTTTGCCCAA
A03	GTAAGCTGAGCTTCTCCATTCTCTA	GTCTCTTTGTGCAACTCATTTGTGTT
A03	ATGGTTACGATTTTGGAGAGTGA CT	TACATTCTAAAGATTTCTGGGGTGGG
A03	TCTGCTTATACACCAAATCGAGTCT	TCATGTCTCATGCACTCTATATGCA
A03	TTTGAGAATCACCTCTTGTCAAAGC	AAATGATCAGTGAAGAAGGAAGGGA
A03	TGTGCAGATTAAATCCATATCCACA	GAGTCTAAGCCCGAAAAAGAAAACA
A03	ATATGTTCAAGTGTCATGACTTTGC	ACCATGGCCAATTAGGTAAAATACA
A04	TTTGGTTGTTACTTCGTTGATCACC	CATGATAGAGTGCGTCTGTGAATTC
A04	TCATGACAACTTGGTTAGGTCTGA	GCAAACTGACTTGAACAAAATGCAT
A04	TAACAGACAGCAAAGAAGGAAACAG	GCGAAGTTGAGATATTGCTTGAGAA
A04	TCCAACCTTGTCTCTTCACTTACAT	CAGTACATAACAACAGTTTGTGGCT
A04	AGTCTTTGTGAATCGCTGTTGAAAA	AGAAAGAAAGGAGGAGAGAGAACAC
A04	TGTGAAAGATGGTGAAAACAGAAGG	ATTTCTCTCTTCTTCTTACTCTCG
A04	GAGCCGCCTAACTACATAAGTAAGA	CTGCTCACACACACATTACATACTC
A04	CACACCCATCTCACACCATTAAATC	ATCCACAACGAAGGAGTATATGGG
A04	TCTACATCCGAATATGGCAGACAAT	GCCGTGAGCTAATACCAATATTTCC
A04	CATAACATAAACAGTACTTCCGCCC	AGTTTTGGATTGGTTGTGAAAGGTT
A04	ACTCGTCTAGACCAAAAACAGGTATC	CCATGTGATTGAAACGACCAAAATT
A04	CTTACGTATTTTCCGCAGACAAGT	TGAAGACGAATTTGACGCAACTAAA
A04	TTCGAAAGTGATTTTCCCATGCAA	CATCCCAATTCAAATCCTCCGTATG
A04	TTTCTCATGAGAATGATAACACCGC	GGTTTGTTCCTTGTTCAGATTA
A04	AACTCAGAAATTTGCCACTCTTCTTG	CGTGTGGTTGTTGATGAAAATTGAT
A04	TTGGATCATGTACGCAACGTTAAAA	AGTGGTACGGTCAAATTGCTAGTAA
A04	GTCGCTCCACCATTTTAAACGTTAT	CGTGACATCAAGGTAAGAAGAGTTG
A04	GCTTGGAGCTTGTAATTTGAGGATT	TCAATACACTCGACAATTTTCAATCCA
A04	GACGACCCGAGAATTAAAAATTCCA	TCACAATAGCCATCAATAAGCACAC
A04	GTTTGACAACTGTTTGGTTGAACAC	ACTTGCAACGAAAATTCATTTGAGA
A04	TGAAACTCCTTTGTCTTTTCAGAGT	CTTCAGTAGGCAAGAGAGCTATGAT
A04	GCCTCCAACAGAAATCCCTAAGATA	GTAGTTGTTGCTCCCTCTAGAGAAT
A04	AGGTATTTGTTGCTACTACTTAGCT	GAAGGCAAAATAGAACAACATTGGC
A04	GGATTGTGAATCTTGAAAGTAGAAGGA	TGAAACCATGCTTAACCTCTTCTCT
A04	TCAAACTGATGCAAAACATGGTTT	TAGCACTTTCTAGCATATGCCTGAT

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A04	GGATCACCTTCAATGGTCTAGAGAA	TATGGAATGAATTGGAGTGTGGACT
A04	AAAACAAGCTTCACACATACGACAT	AACTCGAAGCTCATACTCCAGTATC
A04	TCTGAATCAGACAACCAGTTTCTCT	GCGAGAGATGAAGTAGAGATTGTCT
A04	ACACACCTCAGATTCTATAGTTCTGG	AGTATGAATATCCGAAGAAGAGGCC
A04	GCCCTTATAATGAACCCGTGAATTT	TCACAATCATTGATGTATGCTTGGC
A04	GTACCGAGCCATTTTGTCTTGTGA	ATTCTAGACCGATAGAAACCTCACG
A04	TGAGAGGGATAGATTGATTGAGCAG	TGCACTCAACTTCTTGCAAATTTTG
A04	TCCAATCACATAGAAAGGGACAGAG	TTCAATTCCAACGCATGCATACATA
A04	CTCTTTCTCCTCCAACAATTCGTTT	AAAGTAAGCCAATGTAGTTTCACGT
A04	TACTGTGGCATGTCGTGTAAGATAT	TGTAGAGGGAATACTTACGCTTCAG
A04	GATGAGCGTACCAATGTGTTCTAAA	GGCTTGTTTACATACGGTGAAGAAA
A05	TGGAAGTTACTCAGATTAAGACGTT	TCTGAGGGTGAACGAACAAAATTTTC
A05	AGATAAACATGTGGTCAAATCGATTTT	GACTACTGTTTTTGGACATGCATCA
A05	TGAATGAATGAATTACACTGAAAGGCT	AGAAAAAGAAAGCTTCAAGTGAGGT
A05	TCGTAAGACATGATAGGTGTTCTATAAA	AATAATTACTCAGCCACAAATATCCA
A05	CCACATCAATTTGAACAGGATGGAA	TCCCTTATTACTCCCTTTAGCCTTG
A05	CGTGTCAACGTTAGAGATTTCTGAA	CCTCGAATGGGAATCTGACTGTG
A05	GACAAACGTTAGAAGGTTGTCCAAA	AAATAAACCCCTATGAACCACCACTG
A05	GAGAGATATGTCACTCGAAGAAGCT	TGTCTGCCAGATATCTATCGAGTTG
A05	TGTTGCATGTCTGTCCTATTAGTCA	GTCCTACTTACTCCTAGTTAAGCGG
A05	CGTGGCTATAAGTTTGTTTAGGGAC	TTGTAATGAAGTATATGTAATGGAAGTAGA
A05	GATCTACTATTTCGGGAGATTAGCCC	TCCACCAAGGTCATATCTTTTGCTA
A05	TGCAGACACGGACTTAAAGATAGAA	GATAAAACCCCTAAGCCCCAATCTA
A05	CTATCACGCATCTACATCGACAATG	ATCCAACACATGTACACCAAAAAACA
A05	ACTCGAGCATAAGAATTTAGGGTGT	AACTCCTTCTAAGGTAGTGTTCGAC
A05	AGCTAAATCCCACTAAAAATTGCTCC	TTCTGAAATCACTGCCAAATCTGAC
A05	TCATCTGTAACATTAGGGTCGAGTC	TTGATAATGGAGATGCGCTCTTTTC
A05	ACTTTGTTAAGTTGGCGCTAAACTT	TAATGAATCCCTTCCGTGTAATCCA
A05	ACCATACCTAAAGAATCGTCAACAC	CCTTTCACAAGCCCAATCTTACTTT
A05	TTGTTCCAAGAGTATTAGGGCTGAA	CCAATTTTCACTGGCCTCTTTTAGT
A05	TCGACATGTATAACACACATCCGTA	TTTCTCCGGATGTGTCTATGCATAT
A05	TTAGTGCAGCATCATTTAGCATTTGG	GAACCTGTCAAGGAAGCTCAGAGTA
A05	CTGAGTCATATGCGGAAATAGATGC	ATCTGAATCTTACCCGGGTAACAAA
A05	AAGACTTAGATGAAAGAGGGGATGA	AAACAATGAATAAATCGGACGGTCC

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A05	GGCCTTACCTTCCTTTCTGAGATTA	ATGCATGTGTTTTGATCTGTGATGT
A05	AACGATGCGGCTAAACATATAACTG	TATTGGTTGAATCTGCCACTATCCC
A05	AAAAACTCGGGGTGTTATATTCCAC	TTACTCCTTTCAACCACGCATTATC
A06	TCTTCACGCGTCATAGATGTTGTAG	TTAAATGGAAACCATAGGGGACGAA
A06	ATCCTAGAACTTCACATCGATACCG	GGTTGATGAGGTTGAATACGTGATG
A06	ATGGCAATTTCCGTTTTGATTTTTATTT	CGTACTCATTAATGCATGGAAGCT
A06	G TTCAGACCCAAATCCATCCAATTT	CTTTCTATTAGAGTCATCCGCTCCA
A06	CACCTAAAAGTTTCACAAGCTGAT	GTTGTCCTATGCCAAGTTCATTTT
A06	GGACGATAACTTATCAGAGACGGAA	TGCTTTTCTTAGAAACGTACGAAGG
A06	CTACATATGATAGCCAAGTGGACCA	CTACTTCTACCTCTTCTCTGGCAAG
A06	TAAAAATGCTGACAATCACCAACCA	TGCCCCTTTTCATTTTCTCTGAAAT
A06	TCAATAATTGCATCCACCTCCTTTG	AACCCCATGAGCCATTTAAGGTATA
A06	GATGTGATGAAGTAGCAAGTGGAAG	ACATTTGCATTTGGTTTACACTCCAA
A06	TTGTTGCTTATTCTTCTCCTCCTGA	ATCACTTAACTATCTACCGCGAGTC
A06	TTCTTCATATGCAGAGATCCTCCAG	TTATATATTTCCCCACCTCAGAGG
A06	ATATCTATTTTCTCAGGAGCGCCAT	ACCTTAGTTTCGAGGGTCTTATGAC
A06	CAATTTTGACCCCTCGAAAGATTCA	GTAAGTGATTGATCTTGGTCGTTCC
A06	ATGGCTAACGAGAATGACTAGAACA	ATCGGTCTGCTCTATCATAAAGATCC
A06	CGTGGAGGTTTTGTTCGCAATATA	TATACTCTTCTGGCTACTGCATTC
A06	GGTGCAAGAGGGTGATCATAAAAA	TAATAGAAGTTGTACCTACGGGGGA
A06	TTACTATCAAAATGTCACGCTTTTCG	AGGGATAGGAGTCATGATTGTAACG
A06	TGATTGATAAACTAGCCCAAATGCC	ATCATATTTGAATGTGCATTTCTCTGTT
A06	CAAAAGCAACTTTTTGTGAGCCTTT	TCCAAAATCTGTTGCAACTACACAA
A06	GGCTTAATCCAATAATGAAGGAAGTTGT	TGATCATGCATGCAAAAATTACTCT
A06	AGAAACCCCTGATTAGTGACTTGAA	GAAACTGAAAGAGGAGGCTTTGAAA
A06	CCTCTCAATTGAACCATCAGGATTG	TATCACTGCATGACTACAAGGACAT
A06	TAAGGCATTCTTTTGTGAGTTGCAA	TTTGCTGACAAAAGTAACCATGGAA
A06	GAATTCTCAAACACTTTCAGCAGCT	TATCTACCACCTCCCATCATACAGA
A06	TTTCGTTTCTTCTTATCAGAGAGG	AGATTACACTCCTATCAGTGCAACG
A06	TTTTATAACGGGTGCTAGCCTGATA	TGCATTATGTGTTTTACCGCATTA
A06	TGAAAAGTTAGTTACATAGTGGCGC	TGTTGCAGTTATCCATTACTCAAGA
A06	GGGTCTGAGAGGAGTTTCAAAATTG	ATCACACCTTCTACACATATCCACC
A06	ACAATGAAATTTGTGAGAGAATCGTT	TGGGGCTATAAACTAAAATTCAATTGGA
A06	AACGAAAAATGCTGGTTAGTCATCC	TTTGTTATTGTCTTTTCATGGCCTCC

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A07	GATGCTCAGAAGGAACTAGATTGC	GGCAGATACTTTCCAGATGCATTTT
A07	ATATTGCACAAAGTGGAGGCAATAG	GGTTGTGTGTTTTGTGTTGTGTTTT
A07	TGAAGTGTTCAGATCAGATCAGTTGA	TCTAATTCGACACCTCAGCAGTTAA
A07	GTTGTGTGTTTACATGATACAAGAGT	ATCCAAGAACTAGTTACCAAGCCA
A07	CTTCTCGAGAATCCATACATCCCTT	TAGTGTTACCTGACGCCCTTTTCTTA
A07	TCTGTAAGGCAAGATTCCTAATGGT	TTTTTACGATATGGCTCGCTTTTGG
A07	GCTTTTACAAGGACATGGGATTCT	TTGACGATCTAAAGACAGTGGTGAT
A07	CCCTTACCTTGCAATACTTCTCTCT	GTGCCAAACGATTTGAATTTATCGG
A07	GATAGGGATAGGGAATCACCTTCAC	CTGAAGATGATGAAGGAGAAGGGAT
A07	GAACAGCTTTTTATCATCCCAACCA	TGAAAGCCTCAGACTAGATGATGAG
A07	CAGCATCCTACGTACCTAGAGAATT	TAGTGCTGTCTTTTCTCCACTACTC
A07	CACTACACGTCTAATTCATGGGAAT	CATCACGTCTAAGCAAAGGGAAAAA
A07	GTCTCGATCTATACAAAACGCACTG	GTTAGCGCTTTCGTTTTTCCAATAAA
A07	CCCCTAAACCCCTCATATTTACAA	TAATCAAGAGGAACATGGAGCAAGT
A07	CCTACCAGGGAAATAACTCCTTTGA	ATGAGTTTCCAATCCGAAATGCTAC
A07	AAGTAAATCCTCCTCAAGAGAGCTG	CATTCTACGTAGCTAGCTTCTTCCT
A07	TTGGATCTCAACAATTTACATGCA	CATTTTCATTAAGGAGGTTGGCTCTG
A07	CTCACATACTCGAAAAATCAGGGTTG	AAGGCAATCAACATGAGCACTAAAA
A07	GCAACATATGTCCGGTTAAATCACT	CAGCATTCGACTCTATGTTCCTTG
A07	AGCACTTTATCTTACCTCCTAGTTGA	CGTGATTTTGTAGGCTTAGAGTGTG
A07	CAGACAAGGAAAGTTCTGCATTCT	ACACATACTGTATGGTGTAACGAGA
A07	AAATCGAACCAACCAATTTAATCGA	TGAAAAAGAAGGAGGAGAATGAGGT
A08	GGCCATGTCAGCATAAAGATATACG	TCAAGGACTGAAAGCTTTTCGTTTT
A08	TAACCTTACAAATCTTCGGGCATA	ACAAAAGCATCCCGTCTAAAGATTG
A08	GTCAAATATGTCTCTGCTGGCATGA	GAAATGCCAGTTTTTAGGACATGACT
A08	TATTTGCCGTTTTGGAATACCTCAC	TTTTGTGTGATGATGCGAGGTTGTA
A08	CTCTTGCCTCTTCCTTTTTCTTGTC	TTAGCAAGTTTGGAAGAGCAAAACA
A08	TTACTAGGCCTTTTAATGCGTCAAC	GGAAGAGGAAGAGGAAGAGAAGAAG
A09	CTTTATCCACTAAGCCATTTGCCTC	TGACATGAGAAAGAAGAAGTACCT
A09	TCCTCTTTCTCTCGTTTAGTTATCCA	ACCCTAAATCCGTATCCTACCCTAT
A09	AGGTAAAAAGATAACAGATTGACAAAGAAA	CTCCATTTGGTTCTCTAGCGAAATTC
A09	TCTACGAGATATGGTGCGAAATACA	GTGGGATAAGTGCCTCCTTTTTATG
A09	GGACTATGGTATTACTCCAAGTCCC	TTAGAAGGTGCAAAATCAATGGGTG
A09	TTTAGAAAGGAGCAGGATAGAGAGC	GCAAAAATAGAAAGAAAGCCAAGAGC

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A09	ACAAGGAGGTCAAAGTGACTTACA	AGAAAGAAGAACGAGAAAGCTCTCT
A09	ATCCTCTAACTCAACCCCTGGTTAC	AGAAAAAGGCTTTCATTTAGGAGCC
A09	GCTTTTTTCGACTTCTTCTTAAGCCT	TACTAGAGACAAGAGCCTCAATTCTG
A09	CACTCAATGCATTGCAATGATACCA	GAGCGTAGAGACCAATGCTATACAT
A09	CTGTTATACAACACCCCTAGGACAT	TATCTCAACATACATAAGCCCAGCA
A09	CTTATTTGGTGTTCTACAAGCTCCC	GGCAACTTCAAAAGCTTACTCTTCT
A09	CTATCCCGGACTTTAGATGTGGATC	TATTGGACGAAGACGAGAAGAATGA
A09	TGTAATTGATTTCCCGTGTCTTCTC	CAATGGCAAAGATGATCGCAAATTC
A09	CCAAATAGTAGTCTCGCATCTCTA	CTATTCTGTCCATTGAAGCCACAAC
A09	CACCAATAAGACAATTCCACATGCT	ACACTTATCTGTGGCAATCAACAAA
A10	CCAACATATGCCATACAAGCTGAAT	GTCGTAGGTGAAAAGTACAACGTTT
A10	GTTCCGTCTATGGATCCTAAAGCTT	CAAAAACAAATTTGGTTAGCGTCCA
A10	GCTTGAATTTGAGCCTTGGAAAATG	ACAATTTCAACAATCATTCCAACACA
A10	ATCGAAGAGTTTCCAGAGAAAACCT	ACTTCTACCACTGGATCCTTATGTC
A10	GTCAATCCGCCTCTTTATGCAAATA	TGTATTTGCATCTTTTGTGACGGA
A10	GGTGGATTTGATGGTGATTTGTTCA	ACTGAGGCAAAAGTTATGATCGAAA
A10	ACTCACGAATTCATGTATGCTTCTG	CTCGTGGAGAAAGATAAGAATCCCT
A10	AAATTAGTCCCCTTCCTTCAAAACG	CTGTGGCAATGTTAGTGTCAAATCT
A10	TCACCCTTATGCCCTCATCTTTATTT	TGATTCAATTAATTTAAAAGTTTCGACCGA
A10	TGAGACGACAACCATAAAAGTGTGTA	CGAATAGTACCAAAATCCAACCTCG
B01	TGGAATCCCCAACCAATAACTA	TATTTTGAACGTGAAGTTGAGTGCA
B01	TTTTGCCTCATCTCTGTCTTCCTAA	CCTCAGGTCAGCAATCATAACTAGA
B01	AGGATCCCGAATATTGTAACATGGT	ACTCCTTCTATCTATGAGCCCAAAA
B01	TTGACATGTCACAGACAGTTTGATG	TATCAACGTCGACTGTACCTGAATT
B01	TGAGTTTCCCTACTGGAGATGGTCTA	AAAAATAAAATATATAAAGCGTTAAAAGATCACAT
B01	TTTCTGAAATAGGACTTTGTGACGCG	ACAGCTAAATACTCAGTACCAACGA
B01	ATAAAGGGTGAGTTCTGGGCTAATT	CTACAAATCTGACCCTCCCATATGT
B01	TCAGCTATCGGGCTATGATTTAACA	CAGAACTTTATACTGTGACCCAAGG
B01	AGTGATTATGAACCCTTTAACCCCA	GCTCCTAAGTTGTTTCTCTTGCTTT
B01	GCATCAAACAAAGAAAGTGTGTGTC	ATTGTCAATTCACACTTGTTTAGCCC
B01	TCCTAGCAGTGGTGCAAGTAAATTT	GCTGGCCTATGAACTACTCACATA
B01	TGATGTAGGTTTGGTTGTCTCTGG	CTTTCTTTCTCCTTCACCCCTTCC
B01	CTCTCATCAATCCCATCCATCTCTT	GACGTGGTATAGGATTTGGCTTTTG
B01	CTCAACATTTCAAGAGGGTTTGAGG	ACCAAGATATCTTCTTACTCCGAGC

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
B01	TGCTGCTAAGATGTATGACCTACTC	GCAGGTAGTCATTCCAATACAACCTG
B01	TCCTACCCATTTCATTCTGAATCCTAC	TTTCTAGAGGATTCCTCAACTTGGG
B01	CGTGCAATGTAGTGAAGTCAAATTG	CCAGGGTTTCTCCTTATGGACATAT
B01	CATAAAGGACTTGGATGTGTGTTGA	TTGCTGTGCGCATATTGAAATTCTT
B01	AGAGGTAGTTGCATTATGACAGCTA	AGTTCCTAATACTTTGCAACACTTGA
B01	CACTGCTCTGGCTCAATTATGTATC	TCCTACTAGGAGAAGGCAGAATAGA
B01	TTGGTTAGAATTCACGCATATAGCT	GGAAGACACGTATTCAGTGTAAACG
B01	AATTAACAGTGTATGATTTAAGATGTGAGA	TATGGCTGTTTTTGGCTGATTTTCT
B01	AGTGTGTAATTATTTGGTTGGTTGGA	CCACTTCACATTCCAATGCTCAATT
B01	AGTGGCTGTTTTTCATGAAGTTCATT	AGTGCAAAGTCTAAAATAGGTAGGT
B02	CTTTTGCTTTCTTTTCTCTGGCTA	CTCATCTTCTTTTAGAGAGAGCCGA
B02	TCTAGTTTGGGAAGGATCTTAAGGC	TGAGAAACCGCATCAATTCAATGAA
B02	GTTGACTAACTGTAGCGTTTAGACG	TGACTCTTAGTGAATTGCCAAAACCT
B02	ATCTTGCTCTGAAGCTGTGGAATTTG	GAGTTGGCAACTGTTCTAAAGTCAA
B02	CTTACGACGAGTAACACCTAGACTT	TGTTAATTGCCTAGCACCTTTGATG
B02	GTGGAAGTGAAGTGAATTGTTGGATT	AACTAAGTTACGCTCGTCAAAGTTG
B02	GAGGAAAATGAGCTAGTTGATGTCC	AGATCTTTGTACCGAGAGAACTACC
B02	GAATAAAGAAGTTGTTGAGGGTGCA	AACTTCCAAGTATACTCGGCTACTG
B02	TGTCGCATAATTGAATCACAAACGA	CGGCAACCACCAATTTAACAAAAAT
B02	CCACAAAGGAAGTAGAGCAACAAAA	CTTTAATTCTCAGTACCCAAAGCCC
B02	TTTTGGATGAAGAACCTCCTTTGTC	AGAAAGTAAAAAGCACAGCCATCTC
B02	TTTAGAGCTCATCTCTATACGGCC	TCCCAACAAACCCTAATTATCCTAGT
B02	ACGATGTTTAAATTGTTACTGGAAAAA	ATTAAAGACAGGTCAGTTATGGCAC
B03	ACCCATGAGAGCAAAAAGAGAAAAG	CTCGTTTCTTTGGCTCTTGTTTCTG
B03	AGGTTAAATAAAAAGGTGTTCTATTTGTGA	TTTTGTTGGTTTTGGTTTTGTGGTTC
B03	CGGAGGAGACAAAATACAAGAGTTA	ACGAAAGCTCTTTCTACCACCTTTA
B03	ACAGCAAATGTACAATGGTAATGGG	GATGTCATGTTCCCTACCACCAATA
B03	GTCAATCCCTCTTTCTTATTCTGCG	AAGAGAAGGGAGCAAAAAGAAACAC
B03	CCCCCACTTAAACAAGAGAGCTATA	CTTGTACTTTTACTTTTATATTAAAAATTTGGCA
B03	GTTGTTGCAAAAGTAAGTGAGCTA	CATCCAAGACAAACCAGACAATTCA
B03	TCGTGATGAGAGAAATTTGTGTTGA	ATTCTCTTGCATGCTTACTCACTTC
B03	GCTGGTTAGTTATGCGAAGTTGTAA	AAAACCTACGCTTGAAGCTTCATTCA
B03	ATTCTGAAAGGATGTGAGCAGGATA	GATGAGTAAGATGAGCTGTGGAGAT
B03	CTGAAAAAGATAAGGCTAGAGGGGA	TATGCACATTGACTAGTGATGGTGT

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
B03	CTCTCTTCTCATCTCTTCTTTTCGCT	TAAGCATGAAAGATTCACGACCAAG
B03	TCTCTACCTCCTCCTCTTGTTGTAT	CCTTCATCGGAAAATCTAATGCGAG
B03	TCTTCTCTCTTCTCTTGTTCTTTCCA	TGGTGTTCAAAAAGGTTAAGCATGA
B03	AAACCATCCAATGAATAAGTTGGGG	CCTAGCGTAGGCAATTGAAGTAAAG
B03	CTCTGTTCTCGTCGTCATCTCTATC	TCCAGAATCCAAAATCCAAAATCGT
B03	AACAACAACTGTGTATGATAGGGC	TACCCGATCCTATTCAATCTGCATT
B03	TCCACAAGTGCAAAACAAGTATGAG	TCTTAAGGGTAGTGGTGCTGTAAAA
B03	AGATTTTGAGCAAGTTTGAGACCAG	CCATAAATACCCTTTACACGCCAAG
B03	ACCAAACCGAAAATCTGAAAATCGA	GACATGGAATTTGGGGTTTGATCTT
B03	TGACCCAATTTTAGGCAAAAACCTA	CCGACAGGGGTAAACAAATTTAGAA
B03	CTCACCTTCTAACTCTTTCACTCGA	GGGTTGTTGCTATTGGAAGGTTTTA
B03	GGTAGAGTGTTTGAGCTGAAGTTTC	CTAGTGTGCTGCCCATAGTAATTTG
B03	TGAAGTTAGGTAAAGAAAAATGAGGAT	TCTATTTTCATGTGAATCTTATATTGCTGA
B03	AAAATGTGTGAGGAATGTGTGAGTG	GGATTTGAACCTTAGACTCATTGGC
B03	GCACGTGCGATTAGAGCAAAAA	GCTCGTTTCACACTTGCTGTGATTAT
B03	AAATTTTGCAAACTATAAGACCAACA	TGAAATTGAATCTCACAGAAGAGAAA
B03	TTTCGTCAAGAATGGAGTGTCAAAA	TTTGCTGAACCTTGGCCTATTACATC
B03	AATTTTCACCTCTAAGCAATGCACA	TCATATGTTCTTTTGCTTGCTTTT
B03	GGCCAGGTATATAAAGAATGCAATCA	ATTATTAAGGACGGGTGAGGTTTCA
B03	AAGGCATGACAGAATCTCCTTAGAG	TGATGTAATCCAAACAACATTCATTTT
B04	GGAGAAAGAGAAGCACAGACATAAT	TGAAAAATTGGGTTTTGGTTTTGTGC
B04	TATCAGAATTCCACAATGCCTAAGC	GGTCAGTCATAAACTTTCCCTTGG
B04	AGGAATTCTTAGATATGCCGCATCT	CTTGTGAATTTGTGTGAGCTTGTG
B04	ATGGATCTGTCTCTAGAACTCGGTA	GTAGAGCCATCACATCGGTATCTTC
B04	GGTCAGGTCGAATTGGTCAAATAAA	AACCCAAACTTCACTCATCCTAAA
B04	ACACAAATTCATGGTTAGTAAGACTGA	TGGAAACATTCTAAGTATCCATCCTACA
B04	ATTAGTATGAGGTTGTTTCGTGGTGA	AGAATATCGAACAACCTCCACTCAA
B04	GGTGAAGCCATACCAATCTATACCT	CTGAGATCTTTGAAACTAAGCTCGC
B04	ACGACCACAATTTTGATTTCCCTATATT	AAATGCTGGTGGTCATGTTAGTTTTT
B04	GCTTCTTGCGTTTTTCTTCTTCTTT	GCACCACTTCTTATTCTAACGCTAC
B04	TATCACTCTGTCTCGTCTGTCTTTG	ACAATCACACCACCAACAACCTTTAA
B04	ATTACAACACATCTTCGTGCTTCTG	ACCAGTTGCAGATTTCAAAACATGA
B04	AATTACATAGATAGAGCAGTGCAGG	TGAATGAAGAACAAAACGGAGATGT
B04	TGGTTCGTATTGATTTTGAACGGTT	TTCCGGTTTTTCAAAAAGAACAGTGA

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
B04	TATTAAGGAAATTCGAGCCCCACAT	AATAATTGCTCTCGATCAAAATTCGT
B04	TAAACATTGATGACGCAGCTACATT	CAAGAACAAAAGTTTTGGTGCAAGT
B04	GCTTCTTTTTTCATCTTTGGTGAGGA	GCCATTGTTGATGATCACAATTTTCG
B04	AGACCCAAATAAAGTTTCAACACCA	CTTGAAATTTATGCGACCACACGTA
B04	CAACTTTGTGCCCTGAAAGATACTT	ACCAATTCGACCAAGAAATAAAACCA
B04	AAATTTGGTCAAAATTTGTTGGGCTG	ATCATCTTAAAGACAAAAGCCCGTC
B04	ATAAGTAGAGGCCTTTCCAATTGGT	AGGATATACATTCTCTTCACCCACT
B04	TCTCCTTTTATTTTCCCTTCAACC	AACAAGGGAATCCAACAATGACAAT
B04	ACCCCTTTGATAAGTTTTGGATTTTC	ACCATGGAAGAAGCTAAGGTTTATAC
B04	TTGTGTTTTCTTACAAGTTGCCTCA	TGTCCTCACGCTAATCAAAATCATG
B04	GCTACGTTTTTGCCAATTAATGCTAC	TCACTTGTGCTTCAATTTTCATGTCA
B04	GGGAATAAGCAATTGAGCTGGTAAA	TTTGGTTCCTGGATATTGGATTCTCT
B04	TGCATTCAGATGTAAAATCGAAACT	CATGAAAGTTACCTATCTTCTTGCACA
B04	ATTAATTTCCAATCCGCCATTGATCC	ACAAGAACTTAAATGAGCTGAAGC
B04	GCCAGAAATCATTTGATTTTGGGTTG	AGCATACCCATTAGTGTACTCTTGG
B04	AAAGAACATAATAGGAGGGAGGCAC	TTTGCTTCTTGATCTGTTCCGTCTA
B04	TAGCAACTGTTTTCAAGTGCTTAGG	TGTTGGTTGTATCACCTGCAATTAT
B04	AATATGTTTGAAAACCGCTCCTGAG	ATAGGTTGATATATGGTGCCTGGT
B04	TTAAGGGAACAAAACCATAGCCTTG	ACCATCAACATATATAGAACGGAGGA
B04	TTTGAAGGAAAGGAGTTTCTCAACG	TGGCAAACCTTACATTGGAATACAG
B05	TCGCTGGTTTGAAAAATGAGAAGAA	TGTTTCGGGCATAATAAATAAGGCA
B05	TACTTAGCAGAAGAAACATCCATGT	TATGTGGATGGTGCTTATGCTAAGA
B05	AGCATTTCTTCAGGGTATTAGGTCTG	ATCGCAATTTGGCAAAGAGACATAT
B05	ACTTCTCTATTGACATCTTGTAGATTAGT	TGCGGGTGGGTTTATTATTATTGTT
B05	TCTTTATGTCTTCACCGACAGTTCT	ATTCACTCTTCCGTTTAAAGCAAGTG
B05	TGTGAAATTTGTTGTTGAATTTGGTCT	TTCTTCCTCATTCCTCAACCATCTC
B05	ACTCATCAGTCAGTGCCAGTAAATA	GTCAACTACTAGGCGACCTTTTTCAT
B05	GTGCCGACTTTCACTACCATTTTAA	CTAACGAGATGATGAAGATCGACCA
B05	GCTATAGAAGTTCAAATGAAGCGGT	CAGGTCATGTGCACAGTTAAATGAG
B05	TGAGGCTGTGATTTCTTTTCAAGTTT	TTTCCATTCAAGCTACAACCTCCAAC
B05	CTCACCTTCTTCAAGAACAAGAACC	AGAATAATTCCCCCTGTTACTCCAA
B05	GGAACCAAACAGTGAGAGAGATAA	CAGCTTGCTTTTAGCTCATCATAA
B05	ACCGTCCTCACAACATAACTCTTAT	GAGGATGGACGAGTTAGGGATAAAA
B05	TCTTCATCCTGTTGGAGGTTATCAA	ATTATCCTCCTCCTTCTACAGAGGG

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
B05	CTGGCCTTTGGAAATGGCTTAATAT	GGGGTAGAATTGAGTAGCAAGCTAT
B05	TTCAGAATCGCAACTGCTCAATTAA	TGTAGATGGAGCCACGTTAAGTTAT
B05	CCTGACTTCCTTTCTTCTCTCAGAA	TAAAGCCTCCATAGCTACTAGAGGA
B05	ATGTTGCTATCGACTCAGTTGTTTG	TGACTGAAGTAGCTGTAATGGACAA
B05	CTGGCTCCCCCTTTAAATTTTCAAT	TTGCTTGTTTAGTAAAGTCACGCTT
B05	TCCCTTGCTAAGTGGTTATAGGTTT	AAAGGATAGACAATTCCTTGGGTGA
B05	ACCGAAAGCTAAATTCCTCAATGCA	ACAAGGAGGAAAAGTGAGTCACATA
B05	TATGCCAAAGTAATGGTACTGCTCT	GTTTTGTTTGTTACGAGTCATCCCT
B05	CATTCACTCACCATCATCAACCTTC	ATACAGTAGCAGTGAACAGTTCAGT
B05	CTTTAGTCATCACCCCTTCTACACA	TGTTAGGGGTATGAGAGGAGTTACA
B05	TTGAACAGATTGTTATTGTTGCCGG	CAATCAGTAATCTGTGCGCAACTAA
B05	TAACCAATAAACTGTCGAAACCAGC	TTTGCTTGGAAGAGAGAGTACTTGA
B05	ATTGTTGGGTGTTTTCAAGCTTTTG	GAGGATGAGAGTACTGGGGATAGTA
B05	ACGCCATCAAGTTAGCACTATTAAA	GCATACTGCGTTTTAGTCCTTTTCAT
B05	TTCCATTTTCAGGTAGCATTTGGTTTT	AATATGTTTGAAAAGTCTCCTGGG
B06	AATAATTGGTGTCTTGCAGAGATGC	TTGAAAACATCAGTGGATCCTACCT
B06	TGAGAGATAGGGAGACGATAAGAGG	ACACTGTGTAAGCTGCATTTTTCATT
B06	TGGAGTCATGAACAAGGTAGAACAT	TTTGTGCATCTTTCTTTTCCCATGT
B06	GCATTGAGGAAGAGTAATTGGTCTG	AGTTTTTAAGGATTGTTCTTCAACCGG
B06	GGTGAACCTTGCTAGAATGCAGTTTA	GGTCCGAATTGAATTGAAAAGCCTAT
B06	ATAGAAGGAGGCCTTTCTTCAAGAG	TCTAGTACGTATAAACCCTCCAT
B06	AACAAATTTACTTCATGTGGTTTTGT	TCCGTAAATCTTGAATTCATAATGTCA
B06	GAGGAGAAGGATGAAAAGGAAGGAT	ACTATTAGAAATTTGTCAAACACACTAAAA
B06	AGTGTAGACAATTACTTTGCAACCG	TCTCCATTATTGCTCCACCAAATTG
B06	AGTTTTCGTGCCCTAGATTTATGCAT	CCAAACCATCAAAGCCAAATCAAAA
B06	GGCTCTTCAACTTGAGATTCTCTCTA	GAGCTAGAAGCCAAGTTAGCTACTA
B06	GCAGCAGTGTAAGAACAAGATTGAT	CGATAACCTTGTCCTTGTTGATAGC
B06	CATGTCACACACTTGGTATCCAAAA	TCTTCTTTTCTTTCCCTCCTTCGCAC
B06	CCAAGGAGGCTATCAGATTTATGGA	AGTCTTGGAAGGTACATGTCCTTTC
B06	TTTCCCTCTCTCCCATTTATGAAAGG	GAAAGTTCGTTGTAAGGCCTTCTAG
B06	TCAGGATGCTACTTCCATAGTTTGT	TCTGCTTGCTGTTTGTGTAATGTAT
B06	AAAGAATCTCTCCGAACCTTCATCA	TTGCTGCTAACAAGACAGGTTTTTT
B06	CCCCATGCCGTCACAATTTTATAAT	GAACTGTTGTATATGCTGCTGGAAA
B06	CAACCACTCTTCTCTTCTTCAAACC	ATCTTCTCTGGTAAGGTGATTCAGC

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
B06	ATAGGGAATACTAGAACCTGGGAA	TACCAAGAATATCTGTTTTGCGCAG
B06	AGGTAGAAGCGATAATGATGAGGAC	TTGATGAAGACTTCGTTTTTCTCCC
B06	GCAAATTGAGTCCAAGTCCAACATA	TAAGATAGGGCAGAGGAAAGGAGTA
B06	TCCTTCTCTCTCCAAATGCCTAAAA	ATATGGATTTCATGTCGTTCCCTCAA
B06	AGAAAAGACTTAAAGTGACGGGAGA	AGAAAGGTCTAGAAAAGGTGAACGT
B06	CGTTGTCCTTTTCGAAGTAATTGTCA	AATCGAAACTAGTTGAATGATCCGC
B06	TGGATAGAAAATAATTTTTATGGGATCCACA	TTTGCCACTTCAGTTAAGGTTTCAG
B06	CTATCCACACTCCATGCAACATTTTC	GACTTCTTTTTGAAATGACGCAATGG
B06	ACAATAGGGTTTAGGGATGTTTCGAT	TCTCTTTCTTGCTCCTACAACCAAT
B07	TGGATTACTGGATGTCCTTTTTTGGA	TTCTCTGTATGACCGTGTTTTCCTT
B07	CGTGACCCTTTTTTAACTCAGAATGG	CACATTCATGAGAAAGATGCAGTCA
B07	TCTCTTATGCTAACTACAACAACACT	CAGAACTAAAGCTCTCAATCTCGAC
B07	ATGCACGTGATAACCAAGAAAACAT	CCTGTGTTACAATTGTGGACGTTTA
B07	CATCGATACACTCCTCGAACAAAAAG	TGACTTTTAGTAATGGGAGAAAGGCA
B07	TAGCCTTGTCTCCAACCTCCTATAGA	TAACACCACAGAAAAATCATGGAGG
B07	GGAGGTCAAGTTATGCTTCATCAAA	AATTTTGTGGAGACTGATGAAGTGT
B07	CTGAATCTGATTTCTGCTCAAGTCC	GGCTTAGGGTTAGACTATGGATCTG
B07	CTTAACCTTTTTTCCCTCAATGGCTT	TAGAGAACCCGAATTAGAGAGAGGA
B07	GATCTATGAGAGTCCAGACAACTCC	AGTTTCGGATGTCCCAGTTATTGTA
B07	CACTTTGCTTAAGATAGGTCAGCAG	GCTGCCTTCTACTACCATTACCATA
B07	AACAGACTATTTTGCCAGATTTGCA	TAGAGTTTGTCTGAACCTGTCTGAG
B07	CAAGAGAGAAAGAGTTGCTTCGATT	GCAAAGTGCTAACCCAACTTGTA
B07	TGAGCCGTACATATTAGAAACCACA	TTTCAATTTCTCTTTTAAAAGCAGTCTT
B07	CTCCAGTTCTCTTCTCTATGAGCTG	AGGCCAATAGCTCTACTCTTCAATC
B07	CACTAAGCAAATTCAGGCACACTAT	GATTTAACAGCACAACCATTGCTTC
B08	TAATCAAGATGAACACGGAGGAAGT	CGTGACATTCTGGTAGTGAGGGTA
B08	TCTTCTGCTTTCTTCCTCTCATTC	ACTTTATCAATTTTTGAGGGGCGAA
B08	ATGATATCCCAGTAGCCCTATTTGG	ACAGCCTTGGAATAATGACGATC
B08	GAACCAACAAGTGAATGCTATGAA	AAATCAAACAAGTGAGGAAGCCATT
B08	CCAAATTTCACTTCCTTTGGGGTTA	TGGACTTCACCATCCAAAGATTTTG
B08	TGTAAAGTAGTTACACCTCAGGCAG	TGCAATAAAGACAATGAGCTGTGTT
B08	GTCTCATCTTCTACGTGAACCTTCT	AGCTGATACCATGTGAAGTTTAGGT
B08	ACCATAATCAACTAATGTCCCCAA	CTTCTCCTCCTCTTCTTGATACG
B08	TATCTCTGTTGTTCTTCCCTTTGGT	CAAAGGGCAGGAATTCGAATTC

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
B08	GATCAGTGCATTCATGGAGCAATAA	TGGAACCAGAAAAACAAAATCGTGA
B08	AATTGTTCTGCTCCTTAGATAGGGT	CGCTCTAGCCAATTGAACTACAAAT
B08	CTCTCCTCTTTAACATCCCTTCCAA	GAGTGAATTTGGAACCTCAAAGGGA
B08	GTTTTTCATTGAGAGCTCTGAGACTG	ACAGCAAATAGATCCAATTCCTCAA
B08	GAGAGAAGGAGAAGGGAGGACATG	AGAAGAGAAAGAAGCAGAGACTCAG
B08	GTGTGTGGCAAGATAGCTAAAATCT	ACTAGGTTTAGCAACTTGAGACAT
B08	ATACAACTTGCACAAAAGAAGTCCC	TTTGCCTTCCCATAACTTATTCTGC
B08	CCTCCTCATCCTTTAATTCTGACCA	AGCCTCCTCTCTTCTTTTCAGATTT
B08	AATATGAATGAAGGCACAGCGCTAT	ATTTTTGGCCGACTTCTTCTGATTT
B08	CCAACATCAACCATATCTGTACTGC	TGCCACTAAATAGTCTGTCATTCTGA
B08	CATATAGGACCACCATGTTTCAGAT	TCACTAAACCACTAGCTGAGAACAA
B08	AACACAACACTAAGATGCTTTGACA	CATAGTTGCAGTGATGAGAACGAAC
B08	TGGAACCTGAAGCTGAAAGAGACATA	TTGAGGAATGGCTACAGAATTCACT
B08	GGTTTTCTAGCAAGAATTCGAAGCT	CAAACCATCAAAGCCAAACCAAAAG
B08	CGAGGAGATGTATGGAATGAGGATT	CAGATCAGAGGTTTGTCCATTGGTA
B08	GTTGTGCTAGAAATTCTAAGATGCCA	GGAGTACCTCTCAGTTCTCATAACA
B08	AACTAGCAGGAACATGTTAGGATGA	ATTTTAGAGGAGTGCTAAGGACCAG
B08	CACTCCAGAAAAATCATGGATGCTT	GAAAGTCTCCACTGGCCTTGTC
B08	TATCTTCCCCATCTTTAATCCCACG	ATTTGATCGTGTTACAAAGGTCACC
B09	GGTGTGAAGAATATTTATTTAACCACCT	TCAACTATAACAAAACCATTTTTTCATAAATTACA
B09	TAGGATTGTATTGCGTCCAATCTCT	TCTAAAAGACCATGTTATTGAGCGC
B09	GCTCATTTGACATTCTCAACTTGGA	CCCCGATAACCCTCAATTGATAACT
B09	ATCAACATGGATGGTAAGACTTGGA	CTGAGTACGCATGCAAAGCTAATTA
B09	ATCATGAGATTCATAGCCCACATGA	AGAGAGTTCCAACATGATAACGGAA
B09	TACGTGTCGCTATTACATGTCATGA	CAAGGATACAGTGAAAATGGAGCTC
B09	TTTCATCAAACACTTGGAAGACACT	AGTCCTTCTGAACTGGAATCATGAA
B09	GTCTTTAACCTTTGAGGCTCTCTTG	CTACTAGGCGACCTTTTCATTTGTC
B09	TCGTTTTTCAGGTCATTTTCCTACAT	TCGAACAACAATAATTGTGAGCCAA
B09	GATCCGTAAAGGGTGTGATCAAATC	TTAAAAGTCACCATTGGAAGAAGGC
B09	ATCTTCGTTCTGCATAAGTGTTGTG	ATGGCAGTAAAATTGGAGAAGCAAA
B09	AACTCTCATTGAACTAACCTGGTCA	GGTGCTTGAGGGTATTCATTTTTCA
B09	GTCGTTTATCTACGTTTGAGCAAGT	GCTAGTGATGAATCCCCAGTAAGAT
B09	TGTAGCACCCCGTTAGATTTTTCTA	TTAGAAGAGAAAACCAGCGTAGGAA
B09	GTATGTGTTGCTAATGATGACGGTT	GAAAAGAAGAAACACATGCAGCTTG

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
B09	AGACTAAGAATACGTTAATAAGTACGCTA	CAGGGGAACAAAATGAAAGAGACAA
B09	TCACCAAAATGATGCGTTTCACTAA	TCAGTACCGTCGAAATTATCATCGA
B09	TCACAGCCCTTCTAATTTTTGCTTT	AAAGAGAAGTGAGAGAGAGAGGAGT
B09	TGGCAATTAAAAAGTGACAAAACAGA	AGCGAGAGAGAAGTAAGATGAATCC
B09	AACGAGTCATACTTTCTCTCTGACA	TCAAATATAAATTAAATACACGAGACTGCA
B09	CGAATAACCCCTTCATTCCAGGAAAA	GTAGCTGGACAAAGAACAAAGGAAG
B09	GTCACACTTTCAAAAAGCTGACAAC	CGTTTGGGGATAGAAACAGATGAAA
B09	CGGTGGTGAAAGAAAAGAAAAGAGAA	CTGTTGAGCAGCAGTTTCATTTTTTC
B09	GACCCCAACAAAAGAATGGATTAA	CTTTTCTTCCATTCCGTTCTCACAA
B09	ACATGAGTCCGAACACTATGTTGAA	TGCGTGTAGGTAGGAGTACATTATG
B09	CAAGGAACACGCACATTCAACTTC	CGTATTCCCTGACAATTCCCATAAC
B09	CTTTATCCAAGCCCAGAGAGTACTT	CGTCTTATAGGACCGTGTAAGCTA
B09	TTAGAAATTGGTGTCAAAGCCTGTC	TAGATAAGTAATGCCCCTAGCTTGC
B09	CGGATGAATTGGTTGATTCCCTTAG	TTTCTTTGGTTGTGATTAGCCAGTC
B09	AGAGGGTCAAAAGAAGTCTAGAAGT	GCGTCCCTATATTTGTTTTGTAGCA
B09	TGATTGTACTCTATGATGCTGGTGT	ATGCATGTTGATAAAATGCTCCAGT
B09	CCATAGCCTTGCTCTCCAACCTTCTAT	GAATCGTAACACACCAGAACAATCA
B09	ACCAGACATAGAGCTCAGAAAATGT	TTGGGCTGTGATCCCTATCTTTTTTA
B09	TCAATTGAGGGGTTTTTACACAAGAAA	AATGGCCCTTTTTCAATTTAAGTCGT
B09	AATCAAATAATTGGTGAGCGCAAGA	CTCGTTCTTCCCTCTTCTTCCCTT
B09	ATTTCTCATGTCGACGATTGTTAGC	CTCCTATCATTCCTCCATCCAGATG
B09	GCGACAAAATGACCTTAGCATTTGAT	TACTCCTCCCACCTTTCATCATTTT
B10	TTGAATCGGTATGCAATGTTTCAAGT	TAACACAATCGCGTCTAATTTTTGC
B10	CTGGTTAGTTGTGACAAAAGTGTGAT	TTGGGTTGATCAAGGACACATATCT
B10	TCCAAATCCAATGTCTCAAACCTCTT	GGTTTGAGTTATTTTGGACGACTGT
B10	GGTGAAATGGTTATGTGGTGCAA	CATCAAGTTTAGCGCGGAGATTATC
B10	CAAGGAGAGAAAAAGTGGTAGTTGC	GATCATTCCTCTATTCCTCTGGTC
B10	TTAGAAAGTCTTTCCCTGACCTTGG	TGGCTTACTTTTTTAGGAGGTTGACT
B10	AGCAACAGAAAGTGAATTGCAAAAA	TCTGCAACTTTACCATTTCTGTTTCA
B10	GGTATATTTGGTTTGGATGGAACCC	AGATATCCTAACTATAATGGAGGAAGGA
B10	TTCTGCTACAATTTCTTTTGCTGCT	GAATTGGGTGCAGGGAATTTAAAGA
B10	TGAATTGAATGAAATCTGAGCAGCA	ATTTCAATTTCTGCAATCCTCTGCT
B10	TGTGTCAATTTTCAATATGTGGCGAT	GAAAGAGGAGAAGAGTAGAGGAGGA
B10	TGGTGAGTGTGATGATGATTTTGAT	AGGCAAAAGTTATGATCGAGCAAAT

表 A.5 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
B10	GGCTACTAGACATGTCGAGTTTAGT	TGTGACTACCACCAACATAAGGAAT
B10	GGCCACGTTAATTTTCAGGAGAATAA	TGTTGGAGTATTTATGTTCTGAAACT
B10	TGTGATTGCTGTATGGTTTTCTTGG	TGTTTATTAGTGTGCAGGAGGAAGA
B10	AAAAACTTTATAGCCAGCCACAGTT	TTTGTATGCTGGTCAAAAATAGCTTT
B10	AAAAACAAATTGTCTGAAACCACCG	AGAAGAAAGAGAGAGGGAAAGGGTA
B10	TAACCCTTTGAGCCTTATTTACCCA	GTCCCCCTTTTCTTTTCTCAAGAA
B10	TGAATCTATTTTAGGAGGCGTAGGG	TTCTCCAGTATCCTTTTAAAGCCGA
B10	AATTGGCCTATTGGGGTTCCATTAT	TAGCAAATCAAACCACGATTGAACA

A.6 谷子 MNP 标记引物

谷子 MNP 标记引物见表 A.6。

表 A.6 谷子 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	CTCGCATAGCTCTAGGAAAGGTAAT	TGTACTCTTCATAAGCACCAAGTGA
chr1	CACTACCTTCATCGCCCGTC	TATTTTGTGAAGGGACTCTGCGGAA
chr1	TGTTGTTTTAGAATTCCGTCTGGA	AAATCTCTTGCCACGTCAGATTTTT
chr1	CAGAACTAGGAGAAGATAGGGGCTA	TGACAACTGGAAGTCTACTTTAGGG
chr1	TGAATGGAGGTGTGATACAAATGAA	ATCCTTATTAGTCCATCAACCCGTG
chr1	ATCAGCACGTATTATTTGGTTGTTGC	AGTGGTAGTGGAATAATGATTTTAGCT
chr1	GGTTGAAGTGAACCTGACGTG	TGCTCGGGAAGATTTAACTATTTGC
chr1	TGGGATCATGGGAGATTATGTGAAA	GTTCCCTGTTGCTGTTTTCAATTACG
chr1	TAAGAAAACAGAGTATGTGGCCGTA	TCTGATATCACATGCTCATACCCTG
chr1	AATGCTGGAAGTCAGAGTTATAGCT	TGACTAATGATTGCACCACTTCAAT
chr1	TTGCTTCGGATATTTGTCGAGAATG	GTTGGATGTGTGCTTTCTTTTAAA
chr1	TCCATTGCCGGCCTTAGAAG	TTCTACCTTCTGCTGCAACCC
chr1	GCAATCTCTCCAGCCTACAAATCTA	TTGCCAGGCCAATGGTTTAAAC
chr1	GATGGTAATGGAACCTTTTTGAGCA	TGGAACATATGCACGCACATATTTT
chr1	TTTCATTTTCTTGAGTGGCACATCG	TTTTGTCCATCCAAGTCATCTCTGG
chr1	CTTTTCCCTCCCCAGCTGC	CTAGGAGCTGGCCAGGAGTG
chr1	ATTTTGCAAAAAGGTCCCCGAC	GGGAGAGCTGCAAAGCTTCTT
chr1	GGAAACTCATTGCAAATCTCCTACA	GGCCACTGTTCTGTACACAAATTAT
chr1	GTAGGGCGTAAGGAGACAAACTG	GATTTATTGAGAGGTGCCGTCATA

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	GCCATTGGCCATCATCATCA	CTCAGATCCTACGGCCAAGAGA
chr1	ATGTATGCGTGCAAATCTCGAATTT	TTTGATCTGCTCGGTACTAAAAATGC
chr1	AAGAACTAAGCAAAAGAGACAACGG	TTCTATTCAAGGCTAAATCTTGGGT
chr1	CTGCATGCGTATATTTGTACCACAT	ATGCACCGAGTGGGAATATTGTATA
chr1	AAAACGGTAGATTCTTCCTCCTCTC	GAACAACAAAAGCTGGAGAGGAATT
chr1	CTGAAGCAATCCCTCCCTTCC	ATCCCATGGACAGCACAGC
chr1	GGTTGCTAATCCCAATAGTTCTTTT	AGCATGTATCATAAGAACTTAGCCA
chr1	GGTTTAGTCTTTTCGTAAGTGGTGTG	TACACTGCACGTTATATTCGCTCTA
chr1	AAACATTTGAGAGTAAGCATTAATCAAA	GGTCCTTGAAACCTTGTTTAGTTCA
chr1	AGTAGAGCTCTGTTCTCCCATTTTC	GTTGGAAGGTGTGGGTAGCG
chr1	CCATTGAAAACACACATTTTCCAC	AGGATTTCTTCACATTTTCCGACC
chr1	CCATTTCAAACCTGACCCTTTATGGA	CTAATTTTCGTTTTCTGTGGCCCTAG
chr1	ATGCTACTTCTTTCAAGCTTGCTTT	TTAAGGCTCAGATAGGTGAGGTTTG
chr1	GATCTTGTCGGCTTGCTAGTC	GCTTCAGCGCTAGGGTTTAGAT
chr1	GCTCAAAAAGAAAGAAAATCTGAGC	TGCTACAATGTCTACCCCTAGGATA
chr1	CTAACCGGCAAACCTAGTTTTTCACAG	ATTTTGGTCTAACTTGTGGATGTCTG
chr1	ACAGTGTAGTTTGAAACGTGTCATC	ATACCACCACACCTAATACTGGAAC
chr1	AGGACATTTCTTAGAGATAAGAGGTT	CTATGTGATCATTGTATGCTCTGCA
chr1	GAGAAGGAACTGATGAAGCTACTGA	TGATGCTTGCCACAGACTTTATAAC
chr1	CGATACACCAATTAATATATATATACATCCTTAA	GAAGAAAAGTGATATTGCAACATGAA
chr1	ATCCCCAAAAGCAGCGTCA	GCCAGTACTCCTCTAACTGCTAC
chr1	TTTTTTACACGAACCGAGGATGAAAG	CCAACTCACCCACACTTTGTAAAAT
chr1	ATAAGCCTAGCACATCATGATAGCA	AAAAATCCAACCGCCAGCATC
chr1	TTGCCCTTAAAACCCAAAGAA	GAATGGGTGCAAGGATTCAAGT
chr1	CTTCAACTTCTGGAATGTCCTTAGC	ATGTAGTCCCTTGAGGCTATGTAGA
chr1	ATTGGTAAGGTTGAGCGCTAGG	GCCTACCTATTACAACGAGTACTT
chr1	ATCCATTTCCCGTCTCATCGATAC	CAAAGGAACGGATCTAGGGTTAGAA
chr1	ACTACCATCTACAAGCAAAGCCA	AGGGGGTCATTGTGAGGATAA
chr1	CAGATCGCTAATAAATTGCCTCCAA	GGAAGATATGCGGGTGAGAGAAG
chr1	GATTGTGAACCTCTAGCCATAGACA	GTCCAAGAAGCCAACCTAACAACAT
chr1	ACGATCACATAAGCAAAACAACCAA	CTCTTCAAATCAAGAAATGAACGCC
chr1	CTGTTATCAAGGCAAACAGATGTGA	AGCAGTCGTACACATCTGAAAAATG
chr1	ATCGGTGGACTTAGCCTCTTATTTT	TCTTCTAAGTAACCTTCTTTTAGCTGA
chr1	GCCTTGAGCTTGCTAGTCTCAA	ATTCAAAGACAAGAGACACAAGTGG

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	TACACTTTAGCTGGGTAAATTTGGG	CTCTTCTTCTTCTCTCTTGTGGTGT
chr1	TAAGCAGCGAACTTGTCTTGTGTTT	CTAGGATGCCTAGCTTCACACTTG
chr1	CTAAAGACACCAATTATCAGGGGTGG	GGAGAGGCCTGGATCATAACG
chr1	TAGTCCAGTGATATTGTTTCAGGTCG	AGTCAAGGGCAAACATTATCCAATG
chr1	TCCAGCGAAGAATTTTATGCCTAC	CTCAGATCGTCGATACCCTAAACG
chr1	CCACGCCGATATATTAAGCTACG	GCTCGTGTTTGAAAACCATACAAAC
chr1	CCACAACAGTTAGGTTCCACATTTG	AAAGTATCTGAAGGTTTGAGCACTT
chr1	CATGTATCTTGCCTCCTTACCTGTA	TCAACACATGTTTGTACCATTGAAA
chr1	ACAAGAAAAGGCATTGGGAGAAAAT	GCTATGCACTCTTTGGCTTTAGAAT
chr1	CTCGAACCTTAGTGGACAGATTC	GGAGAAGAGACATGGTGGATTGAG
chr1	TCATTGGTATCCTGGTGGAGATCTA	TGCCGATCAGCAATTGTAACCTCT
chr1	GAAGCCGGAACCTCCTAAA	GGACGTTTCACTTGTTTATCACCTT
chr1	CCATCTTCAAATGGCTCCACTAC	AGAAGAGATAGCATCGGCATATATAT
chr1	AAGGATTGCTCATATTCACCTGGTT	GGCTAGAAGTGCAAAATGAAAAAGC
chr1	AGATCATAACTTCTCTGCTGTCTGC	GGCTGTTTAAATATTAACGATAATATCAGGA
chr1	GAAATCCCACGGAACAAGTTGTT	TGTGAATTAAAAAGTGAGTTTGCCTACA
chr1	ATTCAGCTCTACCATTGAGTTTT	ATTTCAATGTATCCTCATGCGTACC
chr1	TTTTTGTGTCACCGTACCCTTTATG	GGAGGAAGAGATAAGGTGTATGCAT
chr1	AAAGTTTCTTGGACACGTAAGTAGC	GTTCTTTTTTGAGTGAAACCCCTCAT
chr1	ATCGATTAGTACTTGCTCATCCACT	GATGATGCAGCTCTATTTGTCAGAC
chr1	AGGTGGGGGAAGCAGTGA	TTTTAGAGAACGGTTTGAATCCGTG
chr1	CATAGCAAATAAACGTAGGTCTGC	AAAATGGGAAATCTCACCACGATTC
chr1	TCAAGTTTGTGTCATGACAATACA	GATAAAATGGTCATGACTGGTCACC
chr1	AAAAAGTAGTATTAGTCCCGGCTCC	TGGACAGCTGTATGTATCAATCGAT
chr1	GCATGTCCATAATGATGCAAAGAG	ACCTACAATTTAAAAATAAATGAAGTACGGA
chr1	CTCGGCATTATCATGAGTATCAAAT	CCAACCAATCGTTAGTTGTCTGATAA
chr1	CCAATTGGCGAGAATTTTTGGC	TAAACGAATAGTCTTTGTGGGACG
chr1	CAATCCATGGAGTGAAATAAACGGT	TAAAAGTTGAGGTAAGCCACTAAGC
chr1	AGATGTGCATACGTTTTGGTTTTCT	TCCGTCCTAAGATAAGTGTTTCGTTT
chr1	GAAGTTATAGCTACGTGCATGCTTT	TATTCAGAGTGAGGATTTGCCACTT
chr1	ACCATGTCATCTTTTGAATGAAATGAA	TGGAGTTGTATGGGCATTAAATCCT
chr1	CTCCTGAGCGCCAGAGTG	GATCATTAAGGGCCGCTGTGA
chr1	AACTTTGGTTCTAACTCTGCTTGC	CATTGTGTTACCTCACTGAGCAAG
chr1	GGATGTGTTTGGTTGGTTGTATCAT	ATGCCATCAAAATCGAGATCTAAGG

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	CACATGAAAGGTGGAGGCAAG	CGAGAAGAATCCAGGAAAAAGTGAG
chr1	GATTTGACAGAAGGCGTGGTTG	CCTTCGCCATCAGACTTTTGTATAG
chr1	AATTTGGAGGAACCTTACGAGTCATGA	GATGGCTTGTCCTAGGGTTAAGG
chr1	TCGCTTATTCCTTCAGTTCAATAC	GCAATACAGTCCCAAACTAAGCAAT
chr1	TCAGGTAACACAAGACAAGAAGACA	AGCAGTTATTCTGAATAAGCAGAGC
chr1	CTTCTCCTGATCAGACGGTGAC	TGACTTGTTAATTGTCATGCTCTCA
chr2	CTATAATTGTTCTCGCAGGTTCTCA	TTTTGATGTTGCAACGGAGCG
chr2	GTAGAAGCTCATGTAAGGAACAACG	CAAAATCTACATGTGGTCGAGGAAG
chr2	ATGTTAATGCTTAGTGCCAATCAGG	GTGCCAAAACGCTCATTTCTATTTTC
chr2	TTATGGATGTATGGTTGGGTCTTCA	CCCCAGATCGTAGCTCCTATTTAAT
chr2	ATTGTTCCATGGGTGCAGGTT	TCGATCCTCACCAAAATCATCAAAA
chr2	ACATAATCTGCTATGGATTCGAGGG	GTCGACAATGTTGCTACGTGATG
chr2	CACTTTGAGGAGGCTAGTATGCATA	TCTCTGATTGATGGAGATGAAAGGG
chr2	TGCATCTTTATCAGTTTCGAAGCTT	TGCAGTTAGACTTGATAGTTACCCC
chr2	CTAGCATCACCAGACGAATTGATAG	AAGTAGGACCAGTAAGTAGTCAAAA
chr2	CATACAATTGAGAGCGACCAAGAAA	ATCAGAAACACTCGTACCTGATCAA
chr2	GTCCAAACTAAGTCAAAGTTATTCAACA	TCTGTCTGTTTGTGTAACATGTGAC
chr2	CTTTTCACAGCTTACCTGCATCTTG	AGTAAAATGCACATTCTGAACGTCA
chr2	CAAACTTTCCCTTGACAAAACAAA	AAACCTTCCCAAACAGTTTCGATAAA
chr2	TAAATAATTAGCGGCCAGATCTGA	TGACGTGTTACAATATATTTTCTTCGT
chr2	GAAAAGGTGAGCGTAAGGACATTAT	AAAAGAAAAACATGTTTCCATTACACC
chr2	TGTGGCCATTTGCACCATTTTC	CTGTCTCGGCGTCGTAG
chr2	TTACTGTATCCATAGACAACGCC	ACAAACTCATAGGCTCTGCAGC
chr2	TTGGCAAGAATACGAAGAGTCTCG	CTTTTCAGCAAAGTCAGTCTCGG
chr2	AAGCCATACTCTCTTTTCCTATAGC	TGATTATTGGGCTGAAATAAACAAATCA
chr2	GCCCATTAAGGCCTTTTGTAGAACA	TTACAAGAACTCAAACGCTCAGGC
chr2	AATCCTCTTTTCTGCACATCTGAA	TGCTTGAGTATTGATGTCAATCTGC
chr2	GCGTGTGCATTCTAGCTTCAAC	AGAAGAAGTCCAAGAGTTTGTTC
chr2	ATAATTTTGAAGCAGTGCACCATCC	CGCCAGGAGATGTTTGTGTGTAT
chr2	GGCCCAAGATTTGATATATCTCCA	CCTCGGAATTAGCAAATCTTACAC
chr2	TGTGGGTAATGATTTGTCAGTTTGT	GAAATCTCTCCAAACACAAGCAGAA
chr2	TAGGGAAACAAGCACATCATCCTTA	CTGCTACAAGAAGGGCAACATTAAT
chr2	AATACATGCGGAGAGTAACTCGATT	ATTTGCCCAATCGTTTCAACTTTCA
chr2	GATTCGAGGTTGATCCGAGAGATG	GCTAAGGTGCAATATACAACACCTC

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	TTACCCCATCAACGGCGC	AATGGCAAGTTTTGAGAAGAGTAATT
chr2	CAATGATGGTTTACTTCAGAGACGC	GCAAAACCCCTTTAATCCCAGTTAGT
chr2	TATTAGCCTATAGCCAGGTCCAAAC	GGCTTTTGTGCGATGATTCCTG
chr2	GATAGATGTGATCCTGGTTGGTGTA	GGCTTGAATAGTTTGCTCATGAAGT
chr2	ATCATGAGTGCACGGAATTGATTAG	CAAAAGAAGCTAGCAATTAGGCCTT
chr2	GTCAGCTCGCCGTCGTTG	CATCCTACCCCTCTCTCACTAACAC
chr2	GCTACATGGAGCTACACATATGAGA	CTTTTGGTTCTGCAATGATCTACCC
chr2	AGTTGGACTTATATGTGGGCTCAC	CATGTGTACATGTAGGCGGTAGG
chr2	AGGAGCAGACTAATCGAACTATGAT	AAGTGCCTGATGGTAGCCATATG
chr2	TCTCCATTTTCTTGCTGCTTTTCA	TGACTTTGAGTGAGTATGTGTAGCA
chr2	CATGTACAGTTCAGCCATACAACAG	TGGAGACACGTACGTATCGTATTC
chr2	ATTACTACAAAAAGATCGGCAAGGC	CCTTCTTAGAATTGGAGGACTTGC
chr2	GGTCGTGGCCCTTCATATTTATAGA	AGTCTCCCATCACAAATTGGACTTT
chr2	AACTCTCCTAATTTAGGGCGTCTTT	GGGGTTGTTTATTTTCTAGGGGCTA
chr2	TATTAATGAGTTGATGGCGATGCAC	TCTCCCTTAGTGATCAGCTGAT
chr2	CTAGTGATTTGTAGCATTGCAGTGG	CATCAACCCCTACAAATCGTATGAC
chr2	AATTGTCGCTCGCTCGGC	GAGACAAAAGGGGAGCATTAGTG
chr2	TAGGTTCCCTTTGTGCACATTCTACA	GAGCACGATGATAGGACTTGGTG
chr2	AGAGAAAAACATGCATTTTCGTTTCA	TCCATCGATCTATACCTGATGCATG
chr2	TCTTGAGTTGCTTTGTTCAACCAATT	CAGTGTGTCAACATTGTGATCATCA
chr2	GATTTTTGGTTGCACATGTATTGGC	ATGAGGGGGCACTGTCCA
chr2	TTGTAAGTAGTCTTTCTCCCTCATG	ACTCCTCCACAACAACACATATGTA
chr2	TCATCGAATTGCCTTAACACTACCT	AGGAGAGGTTGCTATAGCTTTTGG
chr2	AGAACGAGAGAAAGAAACAAGCAAG	AAGAGCTTGGCACTAAATTGAGTTC
chr2	TGGTAAATCTATTTTCGTGCAAGGTG	AAAAGTTAAAGCTCCCGTCGATTAG
chr2	CCTCGTTCCAGGCAACGAC	CTGATGCGTTTGACTCCAACCTC
chr2	CCAATGAGCTAGTGATTCGAAAGAC	TCAATGTTCTCTTTTCGTCACAATCG
chr2	GCAGCTTTGAGATGATCGAGCA	AAGGATTTGAATGCACGCCTTC
chr2	GCTCCAACGACGACCCCA	CACTCCTATCAGAACACGTACCATC
chr2	ATCAAGGATCATTGACTTCCTACCT	GCTCATCACCAACTTCTTGACCTAT
chr2	TACGCAATTACGCATGTTTTCAT	TTGCTTGCAAAATATTGTCTTGAC
chr2	CAAAAGGCATTGGATTTCAAGAATCT	GCAATCGCTCTTCGTCTTTATTT
chr2	TTCACACCGTTAGTCACAGTAATGT	GCTCACCAGCAGCGACAT
chr2	ATCTTTCAATTCCAGCAGTACCATG	GGGCTCTTTAGTCCCAGTTGAT

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	TTGGCTCTCAGATCTGGTCGTAT	CGCATAAAACCCTAAAGTTGGACAT
chr2	TGTCCTAATTAAAGTTGCAAACTTG	ACGTCTACACAAACTACACGGATAT
chr2	TTGAAGTTTTGATTGTGGTTCTCTCC	CTTGGATTTCTACTGTCCATGGTTG
chr2	ATCCTCTCTCCATCACCTCAAAAAT	TACTGCATCAAACAAGCTTAACAGG
chr2	TTTCCGATTTCAATGTAAGTGCGAA	CGAACTAAATGCTATATGGGAGCCT
chr2	TGTGGTTTTGAGCTATATGTTGAGT	TACAAGAATCATGTAGAAAGGCACG
chr2	CCCAGATCTATGTATGCTCTCATGA	CATCCAGATGATCCCCAAATTGTTT
chr2	AACTAGCACATCCTTTATTCCTCGT	CTTGTCTGGATGGTCAGGACAAG
chr2	AGGTACATTTTACTATGGCCCTGTT	GATGTGCATGCCATTGGGTTC
chr2	GTCCCTTGCTAACCTGTTGTTTTC	AGTGAACTAAGCCATCTGTAAATGA
chr2	AGGTTTAGTCAGACAAGTTTGGGTA	TACTCCTAACTCGGTTTACACAGAC
chr2	CGGTCTTTCTCCTTCCCCC	ATCGACAGGCTCCCCTACCTC
chr2	CCTAACATAGTGAGTCGAGCTATCA	CTCGAATAGAGGTCTCACATGTGTG
chr2	GTTCCCCATATCCAAATCCACTTTG	GGACATTAATGGTGGATCTGAGCTG
chr2	TACACTCTGAAGTTGCGTCCC	TTGAGATGGAATCCAGCGTGATTTT
chr2	CGAGGAAAATCGCTTCGTTTGT	GATGTGCAGGGAGGTCACTAG
chr2	CTCTCTCTCCACTCAATCTCTCAAG	CGCCCACCAATTTGAATAAGATCAT
chr2	TTTTTATACGCTGCGTGGGCC	GTTGTCTGATTTGAGTTGAGCTTCTC
chr2	CACCGGCCTGAACCAATCA	CTCGGAGCCCACGAATCTG
chr2	GCACCATTTCTTCTCTTTCTCTG	TGTGACCTAAACTTCAGAAGGGTT
chr2	CCTGGATTCCGGCGAGATG	GAACACGTAAATATCATCGCACCTT
chr2	GATCCTGTTCCACACATGCTAGT	CTGTTTTTGGTTCAAGTTTTCCAGT
chr2	ACACAATTTTTATGGGGGTGGATTC	ACGAAAGCCTTGTTTTGTTTCCTTA
chr2	ATTTGTATACACGTGACTAGTCCCC	CTACCTAGCCATCATAGAGGGTGAG
chr2	CTAAAGGCAGCGCTAGTCAAATGAG	CGAACGTTATATTTCCAACCGCTAAG
chr2	CAAAACAAATCTGCACGGCAC	CTCTACCTTTGGATACGACCATCAT
chr2	GATCCGACAATTTCCCTCAATTTCAG	CCTCTACAGTTTGTGTGGTTGAAAG
chr2	TTGTAAACGTTGATTCAGCCAAACA	CCGTTTTCTTTTCGTAATATGAACGG
chr2	GTTTTAGGTGCCAATCAGATCCC	CCTAGATTTATCCAGAACAGGAGCA
chr2	CAGCCTTTGTCCATCGTAATAGTTG	TTTCGACGGATCTTAAGATTGACAGA
chr2	TCATAGAGAGGGTACGATCAGATGA	TGTACCTCTGCAGAGATCATATACG
chr2	GCAACTTTTATACTCAAAGCATGGCA	GATGTGTACTGGTAGCATTTGTGTTT
chr2	TCACGCAATCGGGCATATATATACT	TGTGAACTGATGTGCATTTTCATGAA
chr2	GCCGACACTACATTTAGCCATTATT	TGGTTTTGTAAATTCACCAATATTACCA

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	ACACTAGTACCTCTGATCTCTGTAGA	GCCGTAGCAAATACAGAGTAAGC
chr2	CTGGACTTGATGAGGAGTTCTCTC	GTTGATGCTGAACAAAGCCG
chr2	AATCATTTTCAGACCTTTTTTGGCACA	GGTCCATGTGAGTATGTGATCAGTA
chr2	TCATGGTAGATAGTACGAAGTCCCT	GGATGGATGCGATGCGAGT
chr3	CTTCTGTTTCAATCGAATGGAGGTG	GATCCATTCGTCAAAATGATGCCTT
chr3	GAGCCCATTCTTCTTCTTCTTCAC	GTAAAAAGGAAGGCCACAACACTAG
chr3	TTTTACATTTGGACCCACGAAAC	CCATTTATTAAGAAGGTTGGCACA
chr3	TTCTTAAGAAAAATCCCCAAAGCC	CTGGTATGCTCGTGCGAAATG
chr3	GAAATGACACAACCTACAGCTGAAA	TCCTAGAATTTGAAAGGGCTTGACT
chr3	TGTATCCTCGCTTTTACCATGAGT	GTCAAGGGATTTGAGGAAAAGGATT
chr3	AAGGCAAAATAGGATCATTAGCTGC	GACGCATCGGCAACTTCG
chr3	TAGTCCAATTTTGAAGAGAGGGGAG	CCTTCCATGGTGAGATGGTGAC
chr3	GCCCTGGTAGATATAGGGTAGCTAT	CAAAGTGGCAGCCATGTCTG
chr3	ATTACATGTCACAAGTCAGCAATCC	CCAACTAATTTCTGCTGACTTGTGT
chr3	TCTATGCTTATCCTACTCTAAACGTT	TTCCAGTATGTACTCGTCCCAAATT
chr3	ATGAAATCACATGGCTTTGGCTTAA	ACTGCGATTAAAGTAGTGCTTCAAC
chr3	AACGAATTATATCCTTTCCACCCT	TCTGTTTGATTGGAGACCTTGCTG
chr3	TCATTAATTTGCAACAAGCTAAGCG	AACTGGACCAATGTTTTTCAGCATAG
chr3	GATCCAAATAATGTCAAAGGCCCAA	TTTGACTACCGCTACTTGACTACAA
chr3	GTCATGAGGATCAACTACTTGAAGC	CTACAAGTCATGCATTCTAAGGTGC
chr3	GACTAACTTGTCGCATACAGCTAGT	CTTTGGGTTGATCTCCCTCTTCTC
chr3	AAAATCGAAGTCATGAGCACATTGT	TGTATAATCCCTGTTGGTTTGACCT
chr3	GAAATGGCGAGATGACTTATTTTAC	CCCATGTAATTGATCCCTCCTCTAA
chr3	GGATTCGACTAGGCGAGTACTACTT	CTTGTGTGATAACAACATTCAGCCT
chr3	GAGATGAAGAGGGTGGCGG	CCCGGGAAGGAAATGAAATCTAAAA
chr3	AGGTAATTAATTATGGGCTGCTTGC	TGGTGTATATTCTAATTTACTAGTTTTGCA
chr3	CTCGAGTTGCTAGAAATTACAGCAG	GTAGCTGGATCACAATGCCCTC
chr3	ATATTGCATGTACATGAACACTGCG	GAACCAACCAGTTGCTCAAGATAC
chr3	AGACTATATGTGTACATGGAGTGCC	GTAAGTTCTTGTAATACCCCATGGC
chr3	CTCTTGCGTATAGATGGCTAGATGG	TGTGATGGATTTGGTATGAGTGTAT
chr3	CAACACCTAGTAGATCGGGTCTAAG	TGACTCCTGGTGTTAGAGTTTGATC
chr3	GTGGGCACAAAATAGAACTCGTATC	TATCATCGTTGAAATAGTTGCCTGC
chr3	CTGCACTTCTGCTTCATCGATTTTT	GAGCCTAATCCAACAAACGTAGATA
chr3	CAACGCTCCAGACTCGCC	GAGGCAATCTCGGCTAGTTTCT

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	ACAAATTTTGAATCGCAGAATGACT	TATCGAGATACATCACACGTTCCACC
chr3	ACAAGCTAAGAGTCACCAATTACCT	ATTGCGAAAAAAGTTGAAACACTTCG
chr3	AATATATGGGATCAAGCTATTTCGGT	TCCGTCGGTTTTTCATTTTTCCAC
chr3	ATTAGCATGAGACTGTGTGAGCTAT	GGCTGACGACTACGAGGC
chr3	TTTAAGTCGTGTTAACAAGGAGTGG	GAGAGGGAAAAATAGCCGCATCTTAA
chr3	GTATCCGCCGAGCAGCTG	ATCCAATACGTTGCTGCCGAAG
chr3	CATCATCAATGGTTAGGTGAAGGTG	TGAACATGATGCAGCTACGGG
chr3	CTAAAACACCGACACTTCCATTG	CTAGCCCCTGTCTAGCCCCTAG
chr3	AGTGACTTGCAATTGACTATTTTGCT	TATGAAATGCTCAAGCTTGGATTGG
chr3	CGAACCGATAGTCCAATTTGCTATC	GTTATCTTGACGGATGTTGATGACC
chr3	CAAATATGTTGCATTTGTGTTGCCA	CCCTAGGATGTACTGTTGGTGATAG
chr3	TTATGACTAGGCATGAGCATTTTGC	GACTTCAGTCTGACCTGGCC
chr3	GCTTATATTACTTATTGAGAAATAATTCAAATGC	CGTTTTGGTTAACTCAAAAAGGCCT
chr3	GAGAGGGATAGACCACAGACCAG	TTTTCTGCAAATTTCTGGATCAGCT
chr3	AAGTACATCATATGTATAATTTATTTGCACTAAG	CCTTTATTTTCAGCAAAATTACAAGGTGT
chr3	GGGAAGGAGAGACTGCTAATTTCTAA	TTTTTCTTTTAGGAAGGAGGAGGGAG
chr3	GCAACATTGTAAATGCGAACATGTA	AGTGATTTGGTCGAGAGTGTTTTTC
chr3	CCTGTTCTTATGTTCTTTGCTAGGG	CCAAAACCAACCACTTAAAGATTTC
chr3	ATACGCACAGCAGATTCTTCTAGAA	CTGGAACCAATACTTCGACAAAACA
chr3	TGCTTGTAACCGTTTGAGCTG	GCAGATGCCACCTCAACT
chr3	GAGTCTCATCTAGAGCTTGCCATAA	CACATTGTCTTGTATTGAAAGACAACA
chr3	GCGGCCTGCAGGTAAGGT	TCAAGGAAGAAGAAGCAGCGAAT
chr3	ACCGATCGCTGGTTGAAAGAT	GATTGGGGAACGATTTGAGATGTTT
chr3	AGCCACATGAAACAAAAATATAAACACA	ACACCTGATGAAAAATTATTACAAGTTTCA
chr3	GATATCAATTTGCTCCACCTGCTC	CACTCAGAGTTGTATGAGGTTCTGA
chr3	GATGTACTTTTTGGTGTGCTTCAGA	CAAGAAAATTTGCACTGCATTGACA
chr3	CAGACCAGATCAGGAAGTAGATCAA	ATTGTTTGATCTAGCTTCCGATCTG
chr3	GTGTTGACTGTTGAGGCTATTCAC	AACAAATAGGAAAAGCAACACCGG
chr3	CCTACTAGCAGCAACAGCAACT	AACACAATTGAACAACACAGACTA
chr3	CACCGTAACAAACAGGCACG	CGATGTCCCGCATTCGTTTTG
chr3	TGTCCAAGGCTTATTGTAGATCAGT	GGACGAACTGAAGGGTGAGATC
chr3	TGAAGAGATTGCTAACTCCAATCAAC	ATCAGCCGATGTACTTGATGATCTC
chr3	CCAACATAGCTTAGCTGGTAAGA	AAGCAAACATACACGCATGCAA
chr3	TTTCGCTGTGTCACGTGC	ATTCTTAGAGCTACCATGCCTTATG

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	AGGAGTCTAACAAAATTGATTCCACA	AGAGCTCGCTGGAATCGC
chr3	TCGGTGGTGC GGAACAAG	CGACCAGAGGCTTTCCAGAAAT
chr3	GGATAGGGCTAGGGAAGGACA	CTGAGCACCTTCCCGTGTC
chr3	CGTGTTTACTGTTTCAGTAGCCTTA	ATTTTCGTGAAACTTGGTTCTCCAT
chr3	AGGCTGACAACCAGGAGT	TTTGAAAAGGTGTGTGAGGGATATG
chr3	CTACGGGATGGCCAAGAGTG	AATCCAAGGAAACCATACCTTCATG
chr3	ATCAAAACAGAAACACCATGCATCT	GTGGGAAATCTTCAACGTAACTCAT
chr3	GATTTTTCGCTCAACAACACCATTA	CAAGTAAGACTCACGCTGATCTCTA
chr3	ACATCTGGGTGATTGGTTACTACTC	GAAGTGAAAATTGTTTGGGCACTTG
chr3	ATGTTGCATGATTTTGACCAAGTCT	CTGTTGCTGGTTCCTTGACGAG
chr3	GGTACCAGCATAGGTAAAAAGGGTA	AGTTGGTGAATTTTAATTTCAAAACCGT
chr3	CCTAAATGGCCCATGGAATGAT	TCCGAAGTGAAGAATTGAAGAGTCT
chr3	GACCAATCGAGTTATCCACG	TCGAGCTGCTTAAAGAAAGAATTCA
chr3	GTTGATTCTCCTGCCATTCTGA	CACTACTTGCACGATCACAACATC
chr3	TACGGTGTTTTCATGGAGAACTTTG	AACATCAGAATCCTTGGATACCACA
chr3	CCCTTCGACCATTCTCAG	CTTCCACTTGTCTCCTGTTCT
chr3	GAGTCCAATGTTAACCGGGACTAA	CATGCCAGCAAGTCCCCTC
chr3	CACCTGTCTTTTGGAGTAAAGAGTA	ATATTACATATGACATAACCGATGATATAACAT
chr3	AGGGTGGAAAGGAACATAACCTATT	GACATCATGTCAGTTGCAGTTGATT
chr3	TTCCCTGGTTATTTATGATGGTTGA	TCAACAACCTGCATCCGAC
chr3	ACCTCCCTTTTATAAATGGATGTGG	TGGATCTAACAGGCTTTAAAGTGGA
chr3	TTGAAAAACAGTTGAAGCACCTGTT	GTCAGTCATCATGGGCAACATC
chr3	GAGGGGAAGACCAATCACTTATCG	GGAAGTAGATCAAGAGTGATTTCGGT
chr3	AGCAAACTATAATAGCGGTCCAGA	TGAATTTCGATTCCATGAGAATGTGA
chr3	GGTACTGCTTCTCAAACTCCTGAAA	CGTGTACACCAAGATATTCGTCAAG
chr3	TGCCAAGATCCAAGAGCAGATT	CTCACGAACTCCTCCGTTCC
chr3	CGGCGGTATGTAAGTTTAAGTAGTG	CTTGAAGTCCTTCCTAGCACA
chr3	GCCATATGCGCTGTCGTAGTC	GAGGCAATGATGGAGATCAAGGC
chr3	GTCACAGTCGCCTGATCGAG	TTCGTAGCACATTCTTTTGCAACA
chr3	TTTTTCACTTTGCATTGCATGTATG	TTTTATCTAAAGCACCCACATATGTG
chr3	ATCAACTTCTGCCCTTGATTTTAGC	GGTCTTCTTCTAGTGCCTCTTACAT
chr3	GTTACGGTTAAGGTTAGGGTTAGGT	TGTATACCCCTATCCCCTATTCTTGA
chr3	CTCTTGAAATTGACTTGAGCTTCGTT	GTTTGATCCTCTTTGTTTCAGATCCC
chr3	CGGTTTAGTTAGTTTGTGGCTTCTT	TCAAAAGATATAAGCTGGTAGGTACAA

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	GTGAGCAGTGAGTATGCTTAGTTTC	GTGATTGCATGGATCAAATCTTTGC
chr3	GAAGCTTCTCGCCTCCTCC	AGGCAAATCCCAGTACGCTAC
chr4	GCAITGGCAATTAGGCTGCAG	GGGCGGAGGAAGTGGATA
chr4	TGCAACATAATTGGAAGTTACACTCA	ACTATTGGGTGAGATTGTGGATTCT
chr4	AACCAATGTGTTTCATGTGTGAATGA	ATGGTTGCTTTGATTTGGTTCTAGG
chr4	GTGAAAATGGCATGCATTCAACATT	GATGCACAAATGATGCAAGGGTATA
chr4	ACTCAACTTTCAGTTCAGCAAAGC	AGAGGAATCAATTTCATACAACACGA
chr4	AGGGTAAATCAAAGTCCTAGATCT	CACCAGACCCACCAACAAAAC
chr4	AGTGATGTATTTAGAAAAGTCAAAACGA	GGAGGCGATGCGTATAAGTGTA
chr4	TAGGGCCTATAGTGCAGATTTTGAA	TAACCATCTGAACTTTGTGCTTCG
chr4	AACGGTCTAGTAGTCGTCTAAATGT	GGTGAAGCTTTTTGGAGGTGTTAG
chr4	CAGTAGTAGCGTATGCCTGTTTTTC	CAATTGCCAGACAAACAGAGCTGAA
chr4	CATAGTTGACATTGTGCTCCGC	TGATCTATGTAGAGACCTCTTCCGG
chr4	AAAGATGCTAATGTAACTACGCC	ACACTTTGTATGCTGCAATTTTGGT
chr4	TATGATTTAGCGGTGCTTCCTTAGA	AAAGCCAGCTCACATGATTCTGTT
chr4	TTCTTGTTTCAGAGTTCGAAAATGGT	TGGGGAATAGAAGAATGGAAGAGG
chr4	CAGCCAGGTTCCCTCATCTCTTG	ACTGGATCCGCTTTTACTCACC
chr4	TTGATGATGGTTCTGAGCTTTGTTG	ACAGATAGAGAATGCCTTCAAAAAC
chr4	ATATTATGGGGATTTTCTCGGCTCG	TGATTTTTTATACTAGGGAGGTGCCG
chr4	GTATCCTGGCCCATTAAGCAAAG	CGTGTAGCAGGTGAATCTGGA
chr4	CTAGACTGATCAGATTGGGCCTTTC	ATACCTACGACTTGTGAATCCTAGC
chr4	TGTTGACCCTTTCTTAACATAAAGG	TATTGACAAAGCAAATGTTGAGGTG
chr4	TACCGGGTTTGCACGAGC	ATGCATGAAACTCGACTGATCCC
chr4	GAGTCATGCCAAAAGACCCTTACT	CAGATTGGGTTTCCGTAATGATCTG
chr4	CGATCAACTCAACATAAGACATGGC	TTTTTGCAAAACACGTGATCGGTC
chr4	GGAATACTCCTAAGGCACCAAAGA	GGAGTGAATGTGGCTATTTTATGGA
chr4	TTCCCCATAACCTCTTGTACTTCTC	CTCCGCACCATCTTTTGTTACCATG
chr4	CTTCATCTCAGTGTCGAGGG	GTGATCTTCTGTTGTGCGGAGG
chr4	CGAAAGCCTATCAAGATTTTCAGGT	AGGCCACCCACGATTAGTAT
chr4	CCAAATGCTTGATTGGAGAGTTCAT	GCTTGTACAAATGCTTTTCTTGTGTC
chr4	CCTTGCTATTTGTTGTCTCAAATGGT	TGTTAAAGTAGAACAAAGATGTATCAGCT
chr4	TTTGCTGTTGAACTTAGTCAAGGTG	AATCTCTGTGATAGTCTTGCAACC
chr4	TATACAAAGAGGGGTCAAGCATCAT	CTAAAAGCTTGGCATGAGTGTCAA
chr4	ACCTCCTGGTGAGCCTGC	CGCAGCTACAACCTGGGGAC

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	TCCCTTGAAGGAATCCGACT	TTTTCCAGAGGCATGCAAGTATG
chr4	CAGATCACAGGTGAAACATCACAAA	AGGAGTTGTTCGGAGGGGTT
chr4	TTACCAGAGGTAGGACTTCATTGG	CTTGTGGTTGTACAGAAGGCAATGG
chr4	CATGATGATCTCCGGGCAGAAG	CTAGCGAGGCAAAGCTAAATTCAA
chr4	CTCGTCGAAATCAAGAACTCGAAG	AAGTACTCATTGTAACCGAGTAGGG
chr4	GGGGAATCCTTCTCTCTTTGTATCT	TGAGACGATGTTGACATTAGAGAGT
chr4	GAGTTTTCCAGTTGTGGGATTATCG	TACTGCATGTAATCCTACCTCTGTG
chr4	GCAGTTAGCTATGAATTTAACGGCT	CTCTTCTTTGTAGTTGAAAGCGTCG
chr4	GTAGGTCTGAGTTCGACTTTTTGTG	CCAAAGAACGCGCAGAATTTGAG
chr4	TCCTTTGGTCAAAATATCTGGCTTC	ATCGAAACATGGAGTACTACTACCG
chr4	GTTTGCGGAAACTATGTAGGAGC	GGCAAATCCTTTGTATTGGGTGATT
chr4	CTTGACAAACATCAATGATTTAGCG	TATGAGTTGATGGGCTAGCACAATA
chr4	TTGGCTTTTATAGATGAACATTGCAT	TGCGTCCGAATAAATTACTAAATATTATTTG
chr4	GCGTCAAAGGGGTACAAGGAAG	ATCGGCCAGACCCCATCAT
chr4	CAGAAATGCATAGTCCATGAAACCA	TTCTCTTAAAGCCATGTTCAATTTGG
chr4	GAGCCACAAC TAGGAAATCAACG	AAAGCAAAACAGACCCTACTTCGAT
chr4	ATAAGCCCTTAATACTGAACACTGG	CTATTGGATTGTCAAGAACTCGTGG
chr4	TAATGGCAGGATTCTTTTCATGGTG	TAGCCTACAAACTGCTCAAAATGTG
chr4	TACATTTCAAGTACTCCCTGACAGG	CATGTAGGTGCATTGGGTTGGAATC
chr4	CAATCTCCGAACAAGACCGCC	GGAAGATGTTGAACTCCTGGTCTAT
chr4	CAATCATCATGTACGCCGTTGATC	CGGTTGTTACGGCAAGTTGG
chr4	TTTCTGGAAGAAAGATCAGGTGGAG	TCCGTATAGTTAAACTCGTTCTGCT
chr4	GCAAGCCTGAGTTTGACTCCTATAT	GAGTACTACTCGATACAGATGATGTT
chr5	CTCTATCCATTCTGCACAATAACC	CTTCGAGGTGCGGCTCTAC
chr5	TCTAGTGACGAAAAATAGGTGGTGT	CGTGCACTGGGATTAATTAGCTTC
chr5	GCCTCATCATCACTTGAGTAGATGA	TGCATCTAATCAAGTAATTCAGAACCA
chr5	TGGACATGTATCGTAGCCTTTTCTT	GAGAGAAGGGGCGTCATGG
chr5	TGTTTCAATCCACTACCAGATCGAT	ATAATTGTATGGCCCAGCACCAC
chr5	GATTCTAGATGTTGCTGAAGTGCTG	TACAAAATACTCCGGCTTCAGATGA
chr5	GATGACTATACCGCTTATGACAAGG	TGTAGTTAGGATCATGATCAAACCGA
chr5	CAGTTTCATGGAGTTTCATTCCCAT	CCCCTCCAATTAGACTTGTCTATCTT
chr5	TACCGCAACATGAAACCAAAGTAAT	TGTTTCTCCATATTGCAACATGAGA
chr5	CAAAAAGAGGTGAGCGTTTTTGTC	GAGGGAGTTTCAATAGCAGTAGGAT
chr5	TAATGGGTGGGTGTTGAGGAAGAT	ACTGCACTTCATAGCTTCTAGGATT

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	GCTACCTTAGGAATTGTACCTTGCA	ACGATCTCATGTCGCTAATACTTGA
chr5	AGCTTTTCAAAAGAAGAAGCCAACA	CGATCTTGATCCTACGGTTTTTCATC
chr5	TGAGTAGTTACCCATGTTGACATCC	AGTTACAATTAGATCACCTTTCACTGA
chr5	TGTGCCTAGAAATTAATTTGTTTGCA	AGACTAACTCGGTTGCATTGATTTT
chr5	GTGAAGGAGATGGAGGAAGAACATA	TGCACATTGAATTCTGCATCTACAT
chr5	GTTTAATTTCTTCTTTCCGAGCACG	GTACAAGCCCCAAGAAGAACAAG
chr5	TTATCTGACCTGCTGCTCCATTCTT	TAGCAAAGCTAAGAATACTCACCCA
chr5	CGTAGCAGCAAGAACAAGAACTTTA	CAGTGCAATTTGGTAGCCTTCTAATG
chr5	CACCAACAAGCTTCCATGCTAG	ATCAATTCCTTTTGCATCGAAGGTT
chr5	CCGTGATCTTCCCTTGAGGTAGTTTA	GAATATGGCCAATGAGCACCAAAC
chr5	TCTGATCTGATGATCTGAAAGCTCA	ATCTGCTCTACGATTTCCATCCATT
chr5	ACTGGGACAATAATAACAGAAACCA	CAACAACAGCTACCACCATTG
chr5	AGGGCGTCCGATGCTTGG	GGTCCTTGAAATCTCAGGATCGG
chr5	AAGTCTTTTGTCCCGTTGGTAATA	TTCTTTTCGAGAGCTGAGCTGC
chr5	ATTTGAGAAACAAGAAGGTCGCAAT	CTTTGCCTCAACATCATCTAGGAAG
chr5	TTCATCTCCATCGTCTCGAAACTA	TTCAACATGCAATAGATAGCACGAC
chr5	TTGGGCATCTCATTTTGGTAAACTC	TCAACCTTGTTGTAAATCTTGTGCA
chr5	CTTCATATTTCTCCGCTCCTCCTC	CCATTTTACAACAACGATCCATTCT
chr5	ATTTGTGAAAGCCTGATCTTGTGTA	CGAGCTATTGAAGATCCTGAATTGG
chr5	ACAGATAGCTTTTCACTGCATGTCA	AAACCACATCATCATAATTGAGCCC
chr5	GTTCTGGTGGAGGTTGACGA	GAAGAAAGAAGAGAGGAACAGGACA
chr5	CTGTAGTCGAATATGTGGAGCTGTA	GTGCTTTTGGTTTTGTACTAGACCA
chr5	CCATCAATGATGACACGTGCTC	TATTTGGTCATGTGCAGAAGGATTG
chr5	GACCTCCCGGATGAAATGGAAG	CGTGTGAATGACTTCCTAAATCACA
chr5	CCCCCGTTCCAAATTTAGATAGTTT	TTTTGTTGTGGCCACTGATCTTGTA
chr5	TGATGTCGACCAAGGGAAGG	AGCACCAACTCACTAACATCGTATA
chr5	GCCTTTATGACACGTAGGATTAAGC	ATATCCCTTTGTAGACAGTACCGTG
chr5	GAAGTCGATGAAGTAGCAATCACCT	GGTTTCAAACAGCGGAAGAAGTAAA
chr5	AGCTCTTTCAGAAGTTCTTCAGAGT	ATCCAACCAACGATTGTTCCAGATT
chr5	CGCACCAACTTGAAACGGG	CTCTGCCAGTCTCATCCTTG
chr5	GTTTCAATTGGTTTTTGCATGTGGAA	GCTAGTATAGTAGGTAGCTGTGAGC
chr5	TCTCCAGATAATCTGCAACTTCTGT	TGATGAATACTTGAAAGCTTTTGGGA
chr5	TATGCAATTCTTCCCCAACGAG	GTACGGGGAGGATATGATTAGTCAA
chr5	CGTATTTGCAGCTGGCTTATGAATA	GCTGAGGTGTGCAATGACAAAGA

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	ACGAGGTTTATTTGATCGTTGGA	TAAAAGCTACTCCTACGTGATTGCT
chr5	ATGAGAAAAACTCCTTCATGGCTCC	AGGCAGGCGGAGATGCAG
chr5	AGAAAAACGGAAGGTAGCAGTATCT	CGCTTCAAATATGAGACGTTTCATCA
chr5	GTA CT TGGACGTTGTGGAACATC	GGCGAGATTTTTCAGCCTGAAA
chr5	CTATTAATGCGCTGCACCTCTAGAG	CCACAAGATGAGAAAGAGGGTGA
chr5	TCCGGTAAATTGTTATTAGAAATGGACC	CCCTCCGTCCCAAATTATATACGTT
chr5	CACCATGTTTGCATACGCTAGAATA	CGACTAATGAGATGCTTTGATGTGG
chr5	CGGCCGGTTACATCATCTTAATTA	CTTGAATAGCTCATGTGGTCAATGT
chr5	GAAGTTCACCATCGGGCCAAG	GAATCATTTTCAGGCCTGAGTGTATG
chr5	CTCAGAAGAATCACGTGGTTTGATC	AAGTTAACATCCACTTTCCATGCAG
chr5	AGATTTTCGGCTCTATTTTCTCTGGT	CTCAAAATGGATCCTCGAACAGTTT
chr5	CCACGTTGTAAACCCAGTAAAAGAA	CAAATTGATTGGCAGTCTCTCGC
chr5	TTTTACCAAAGGTAATCACAGCGTC	CCAGGGGAGGAGGATGGAAT
chr5	TTCATCGTACATGTGTGGTTCAATC	TGGAAAAACAGACAGATTTGTGCAT
chr5	GTTTTGCAAACAAACAGGATGGATG	GTGGGACTAATGCGAAGATTTTCTT
chr5	CCAGATGACGAATTCAACCATCG	CAAAGCTTCCAGATCCTAGTAGGTT
chr5	TCTACTTCAACAGATGATCCTGCAT	GGAGGAAGGTGCTCTTATCATAGTT
chr5	TAGGTATCCAAAAGACCCAATTGTG	GTGATTGGTTGTCTAGACTAGGAGC
chr5	TCTCATCGATTGTCCAATCCAGAAA	CAGAAAGCTTCCATGGCAAGAAG
chr5	ACGAGAGAAAATAGGGGAAAAGGTT	CCAAACACATGCTAGATGGAAGAAA
chr5	CTGAGCCGACAGAGCCCA	TGTCGTTTCGTGCCTTCGTG
chr5	CATGGATTGGGGATGCCTGA	TTATTAAGATCTTATGGTCTAGAGGGG
chr5	TGGGGAATCGACCGAAAATACTTAT	CCAGCCGAGAGAACTAACAGAAA
chr5	ACAATGACTGATTGGAGCTCAAAAG	ACTGGTGACTGATCAGAAGATGAAA
chr5	CAGCTCATCAAACATTTCAAACTGT	CTTGCCACGTCAGAAAAATTGTAAA
chr5	TAACAACCCCTCCCCTTGGC	CTCTTCCGACTCCACCATCAC
chr5	CGTAATGAAGGGGGATGATATAGCT	ACCATGATTTACACATGTTTCACT
chr5	AAACTCAACACGGAGGAGAGAAG	GGTCTGTCGTGTGCGCTAG
chr5	GTTCCCCACTAAATCACCAGAGTG	GACGAAAGGACGAGGAGGC
chr5	AGTGATGAAGCCACTGAACCTTG	CAAGTTCTGCATCGCCGTG
chr5	CATTCAGCTAAAGCAGGCATTTTGTG	GACCACATCCAGGTAGATTGTTGTA
chr5	GGACTTTCTCCTTCTCTCTATGG	GTCTGAGCAGGAAAGGATTAGGATT
chr5	GGAATTAACAAGCCGATTACCTTG	TCTCTGTTTGATACTCACAGCAATG
chr5	CCTCAGATACCACACAGTTTTTTCAC	CTACTACCACCTGCTACAACGATAA

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	CTGTTACGTTAAAGCACCTAGC	CTTTACTTTTCCACACAGTTCCTCC
chr5	AGAACTGACCC'TTTTATCTTTTGAAAA	TGTCCCTTTTAATTGATCTGTTGAATT
chr5	TCTTGTGCAATCTAGAAAAATTTGCC	CGAAACCAGAATATTAAATTATTACAATAACAA
chr5	TAATCACAACAAACGAACGAACGAA	CTTCGGCATGTACGAGATGGA
chr5	ACTGTCATCGTATTACAGTTCCGTT	GCTTAAGCAATTAAGGGTTGTGACA
chr6	CGAGTCGACGGAAGAGGC	ACAAATCAACCACTTGAGTAACCCC
chr6	TGTAGATAGCATGGAGGTTGATGTT	TCTCAATCTTTAGGTGCAGAACAGA
chr6	TTTTCAATTTCCCTCGTTCCTTCTC	GCTGCTGCTGCCATTCTTATG
chr6	GCCCACATCCTACCCATGG	CAAAAACATAACAAGAAACAGCCACG
chr6	CAGCATCTTGAACCGTCAGATTAT	TCCTTGATTTCTCCAAAAGACCCTG
chr6	GCCTAAAACCTGAACTTTGATGCACA	GTAGCAATCATGTTGATTTCGACGAA
chr6	GGCAGTGCGTACAGATGAATA	CCTTGCAACCTCAAATGAAGAGATT
chr6	GAGACCTCTGAATCTGATGAGGTAC	TCATCATCAGAACCACTCTCATCG
chr6	CTGCTCATCTTCCTGCCCAAG	CATGTGGACTTACAAGCACCATAC
chr6	TCTGTATGCAGTTTCTTTTCCCTT	GCAAGTTGGGGTAGGTTAAACAAAT
chr6	CAGATAACGTCATGTATTGAGCGTC	CATGTCACCTTATGGGTGAATCAACC
chr6	ACTATACTTGCATGGGGTTTAGTGT	TAAATTCATTTTCTCCCGTTCCACG
chr6	CCCATCAATTTTGCCCATTCAGAA	AGGAGCTATAGATGATTATTGTAGGTG
chr6	TTGGCCGTCTCCTTGATAATCTTAT	GTAGAAATCGTGAGCAAGATCCAAG
chr6	TGGTAAGAAGCCCCTCAAGAAAAA	AGGAACTAAAATGAAGAGTACCATGT
chr6	GGTTGGTAAGTCATTCATGTGGTAG	CTTCTGCTTCCTTCTTCATGGTTTA
chr6	CCCAGGGTGGATTCTTTGTACTATA	ACCTATTTTATGATGTCTGCTATCAGT
chr6	ACCCCTAAAACCTTCAAATCCTGAT	ATGCCGTTCCCTTCTTTTAATTACC
chr6	GTTTCCTGAAATACGCTTGCTTCTT	GCATTTCTACTTATTACCTGTGCCA
chr6	CGGCGCAGTTACCGTTTTTG	CATTTCTCTGCCCCAGAAAAG
chr6	CAGAGGTGAAGCTATTATGCAAAGT	CTCCTCATGTACCACGTGGG
chr6	CCATTTCAAAAACCTCAAGCATTT	ATTTGGGGATTTAGTGTAGCTAGGG
chr6	TTGCCATTGCTTGTTTGTCTGTT	CCAGCAAATGTTTGTTTGAAGCAAT
chr6	GTTGGTCGTTAGTTGAACAAGATGA	CACTAGGAGGATGGAGGATCTACAG
chr6	CCATGGGAGGGACGGTTTATC	CTTCTGCAAGCCGTAATTTGG
chr6	GCACCCAGAGAAGTTAAACAGTTTT	CACATAGATTGGCTCGATTGTTTTGT
chr6	GTAATGTTTATATTTTCGATTGATTATTTGCATG	TTCGAGGTGCTGCACGAC
chr6	TTGCTTTTAGGGTGAGTTAGAGGAT	GATTCAGCTGTCCCTACTTTTCTT
chr6	CACCAGCTGAACCGCTCTATC	GACGTAGGTACCTGGAAGTTC

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	CTCCTACATGACAACTAAGATGCT	TCAAACCTAGAGATTTAAGTAGCACCTT
chr6	CGGTGGAATTGGGCAGAGG	CCCCCTCCTGCACATATCCTG
chr6	CAGTCTCGGTGATACCTTC	TGACGAAACTTTGAGCGCAAG
chr6	TGTTCTTTATTCCTCGTCTAGCAGA	TTTCGAATGAAGAATGAAGAGTGCG
chr6	CTTGCAAGAATGATGTGACCCATAA	CAGCACATTTGTATGGTTCCAATA
chr6	ATAAATGGAGTTCGCGAGGAAAATG	GTGGTTCTTGTTCATACTGAGCAAA
chr6	CAGAGTACTCAACTTCCTCAACGAG	GGTTACATAGCCCCCTAAGTACATT
chr6	CTCATTGGCAGAAATTAATGATGGCT	CAAGAAGTGATATTGCCACAAGGTA
chr6	TGTTTCCCTGTACTTAAACAAATGT	TTTGCAAAGAGCCAACTCATCTTAG
chr6	CAAAATCCTGACCGTGTCTTATTG	GACAGGCGACGGACGAAG
chr6	GCACTCACATGTCAATTAGATCCTG	CTGGTGGAGAGAGTGTGAGC
chr6	CAAATACGAATTTGGAGCTGGATACA	TTGAGCAAGGATAGAGCCAACCTAT
chr6	GAGCGTGGACGATGAGATTGT	TTGTAATTTTCGTCGACCATGTTGT
chr6	CCAAGATGTTTGCTCCTGAACTC	CGGGACTAAAGGTGGGTTTTCTA
chr6	AGAATGTCTGATAAGGAGCTTGAGT	GACGGGAGAAGATTGATATCAGGAA
chr6	AGGGTTTGGGTTCTGGCAAC	TAACAGAGACTTACCATTGTGAGC
chr6	GATGACAGCCTGAACACTATTGAAG	CGTACAAATCCACCTAACAATCTCG
chr6	GAAGAAGATGCTCGCGGCTATAGAT	TCAAGAAGAACCTCCCATGATTGAT
chr6	TGAGGATTTAAGTTCCACGTTGAAA	TAAGACTTTGCTTGAATTATGGCGC
chr6	CACTATAGACGTGGTGGTGCC	CTTCAGAATCTGCAGCTCCCTG
chr6	ACCATCACTACTAAAAGTGTAGGTCA	CACATGTGGAGTGAATATGAACACA
chr6	TGACGTGGCGTTGTCCATG	TGGATAGACAGGAAATTGACATGTG
chr6	ATCCTCATCATATCTGTACCAGCAC	TGTATCAAGAAGGAAGCCAATACCA
chr6	GCATCTCAAAGAAAACATGCCAAAT	ACTGCTATTGAGAATCTGAGAAGGT
chr6	TGGATGAAGATTATGTGGTTACTTTGG	GAGAATCCGCATTAGTTCTCACAAG
chr6	TCCTTTTTCAGTGAGAATTGTTTCGA	CTAGGGGAGATGTACGAAACGGAT
chr6	GAAGATGTTTAGGGCCCAAGGTTG	AAACACATCCAAGGGTACAGAAATG
chr6	GGACTTCAAGTGCAAAGTGCTAATT	TTTTAAAAGAAGCCACCACGTTAGC
chr6	AGTTCATTGCTTTAAGTTGTCCTAAC	CTTTCCTCCTCCAAACAAATCTTCC
chr6	CTCCCTCCTTCTAAATGCTGATG	CCAATCAGTACCGGATTAGGGTTAA
chr6	TGGTTGGTGACATTTATAGTTTGGC	TCATGTCCGCAATAAAAATTATGCG
chr6	CATTTCCGCCCCGTATCCTCC	AGCACAACTCTATCCAAGATTCTGA
chr6	ATCACTCTAGCTAGCCTGTGGTAG	CTTCAGTTGCAAGATGTGAGGAAAG
chr6	TTCAACAACCTGGCCCAATAGGATC	GCCCATTTGGTGCAGTGGT

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	TTTTTCCTACATGTCAGCGGCC	AGTACAGAACTCCGGCGC
chr6	TTAGTCCCAGCTCTTGTGAACATAA	CGTCCTAACAGAAATTAATGTTGGCA
chr6	CCGTGCAGCACCAATTATATAACAA	GGAAGGGTAAGTACCTACATCATTT
chr7	TGTTTTGGTCCAACCTCGTCTAAATG	ATTTCTTGATAGGCCACTGGGTATT
chr7	CATCCTCATTTGAAGGAGAGCTAGG	CGGTTGAAAAGCTCAAGAAAATCAA
chr7	TTAAGGATGGTGCTAGAAATCTTGC	TATCTGTTTCCTGGTATCAGCTAGC
chr7	GGCATCCTTTGGTGGAGGAC	CACCAAGCACTCCTCCTCCTG
chr7	CCAATATTACCCATCGTTCAACAGG	AAGGTTTCATAGGTTCAAATGCACA
chr7	TACTTGAATTCTTGAACGGTGAATG	CAGAGCAACCATTCATCCAACC
chr7	GTCTTCAAGTGTGGATGGATTTTC	TTAATATACCTGTGAACCTCGAGCG
chr7	CTGCTGATTATAGCGAGGCTCATC	AAATTGACTTGCGATCTGACAACC
chr7	GGATTGCACTAAGAAGACCATTGAT	TCTAGTCAGTGATCAAGGCTATGAA
chr7	GTACTTGGTGATGCGCAATTAATC	GAATGGTCAATGGAGTGACTTGTTT
chr7	ACCAAGTCCAACCAGCATATCATAT	GCAGGCATCTATTTGACAGGTAAAG
chr7	ATGCCCAAGTCAACTGATGTCATTA	TGAAAAACCATCACAATTTGGGAGT
chr7	TCACCTTAAAGTTATTGGTTTCGCA	AGAGAGGTTGGCCAGGTGA
chr7	TCAGCGCTAAATTACTATGAAAGCA	CAACTGTCAGTCCCGTTTTTTC
chr7	TCCTCAGGAACATAAAACAATTTTCGG	TCCCATTCCACTCTATCATAAGCTT
chr7	GCACTTTGCATGATATTGTAAAAGCC	CTCTGTGGCCTCTACCAGTCATC
chr7	ATCAAGATCTGGTCTAGGTCAAGAG	TTTGTGGACAAATAGGGAAACTGT
chr7	CTTGGGGATTCCATACCTCTGTG	AAAATCACCTTGGGCTCCTCCTTAA
chr7	AGAACGAAAATTAGTTTTATAGCATCCA	AGGTATTTCCATCCTCACAATTAAC
chr7	TGGCGAACTTATCTTTTTTCCAAGAG	ACAGAAGTTTCTCAAAATCAACAGAGT
chr7	CATTAATCCAGAGCTTGTGGTGAT	GCAGCAAAAGAACAAGGCTTTATTT
chr7	ATGCTCACGTAAACACTAGTGTAGA	TGTTTCCTAAAAATATATTTGCTTGGTCA
chr7	TATTTAGGGGAAGCAATCACTCCAA	TGATTTGTTTCTGACGGCATTTGAT
chr7	GAGTTGCAACTGAAGTGTTTTTGTC	GCTGCTTGAGTTTGTAAGTTATGC
chr7	CCCCTGATATAAGTGCACATCAGTA	ATGTTGCAACTTTTCTGTCTTCTGC
chr7	ATCTGTACTGGTGCTTGTATGAACA	CCGTTGCAAGTTTCGTTTTGAATTT
chr7	CTGCCCAAGCACATATTAACTTCT	GGAAAACCTTGCAAACTCACTGT
chr7	CTTTCTTGTGCCTTCAAAGTTCCCTC	CACGCCCCTTCCCTCTC
chr7	GGTCGGGCGTGGAACCTT	TTGCTATCCCTAAAAACTGCTAGGA
chr7	CGTACAAGGTCATGAATGATGGTTC	AGATCGAGGAGCTACACTTGTTTTA
chr7	TTCCAGGAGTACTAGCAAATGTTCC	CCAACACACGCATATCTTTCTAGTC

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr7	GATCGCTTCTTCATGAAAAGTAGGG	GAGCAACAACAGAGGCAAGATTTAA
chr7	GCTAGACTTGAGCTCACATCACTT	GAGTAACGAGAGCTTATAGTTTCGC
chr7	TATGTCAGTTAGTCCGATCTACACC	AGGTGGTAGATGATATCATAACTTATGGT
chr7	AACATGCCTAAGTGATCACATTGTC	GATTCTAGCTCACGTGGGATCAA
chr7	ACTGCCGTTAGCTATAATGTGGTAA	TGGTTAAGTCTTATTACTGTCAGCA
chr7	GTCCACTAAAACGTGTCCTACTCTA	AGAAACATGATGAGTCCGTGCT
chr7	GGAGGAGCGAGGAGGAGA	GAAGCAACAATTAGCATTAATATGGAA
chr7	ATCTTTACCTTCGCCCTGTTGTTTC	TGCCAACGTAACAAATCACACATTA
chr7	TGAACATCCTGTAATTCAAGGTCTTG	AGCTGCATCTCAGTATGACGG
chr7	TCTTTGACGCTAAGGTCTGCAC	CTATGGGCCTACTGTTCTAATACCC
chr7	TCGTCCACCATAATTCCATGAGTAT	CATGCCCATTTGAATATAACCCATGT
chr7	ACTAAAGTTTAGCGCATCGTATCAA	ACTAATCAGAGGATTAAACATGAGCT
chr7	TGTGTTTTCCTATCTACGGAATCTCC	AAAGAGAACGGGGAGTTTGAGAATA
chr7	TGACTCGGCACTTATAGAGAAACAA	GGTTGGGAATTTGGAAATGGAGATT
chr7	TTTGGTGCTTTTGATGTGAGTTGAC	ATAAGCGCTTAAATTTTCGTATTGAGT
chr7	ATTGTGATAGTGCCAAAGGACAAAG	CGTGACTCCTGAATCCTGATGG
chr7	ATGGATTAATCTGTAAGGCCTTAGC	CCGTCATTGGCAAAGCTTAAAGATA
chr7	GAGACGTATAAAATAACCATCGGGC	CCTTTGTTCTCTCAATCTCTGCTTG
chr7	TTAGGCCTGCCTATTAGCAAGTTAT	CCTAGAGGAGGTGGTAATACCA
chr7	TACCACGTCAGTATAAGAAGCAACA	TTGTACCTCGACCTAGGCATA
chr7	GTAATAAGCCGCCTTTCAGTTAGGA	CCTGAGGAGCTCCACCAAAAC
chr7	TCATTCTCTTAGCATGAAACATTTTGA	AGATCATTTAATTCAACATTAGATGAACCA
chr7	TTTCGCGTTTTTGTGTTGCTGTTG	CTATTTTCACAATGGCATAGGTGGA
chr7	ATTCAAACGAGCTCAAAACCGTC	TCCTTCCTAGAAAATTTGCATGAATT
chr7	TGATGTCTTATGCTTGCACAAATGA	AGGGAGTATATGATTTTGAGCTAAAGA
chr7	CAGAAGCAGGGGGACATGATC	GTGTAGACGGTCTGGATGGG
chr7	TGTTACTAGGTAGCCTGTCTCTGTA	CTGCATGCATTCGTTTCTCCTC
chr7	GGTATAAAACATCGACATCTGGC	TGAATTGCTGGTGATGGGGTAG
chr7	ACTCAACAAAGGCTTAGATACCTACA	CGTGATCAAGCTAGAAAATCTCCAAG
chr7	TCCAAACAGGATCCAATAAGTTT	TAAAAGTTGCACTTAAGTGGCCATT
chr7	GAGATGGAAAAGAAGATTCAGGCAA	GTAGGCCTACCGCTATTTGGTC
chr7	ATTTGTCCAGTTCTTCTTCAATGCT	TCCCATAACTGATTAAGTAAGAACAAAAGT
chr7	ACTTTTGGTGCAAGGTTGTGAC	CATAGTAGGGCGGTATTGGAGAC
chr7	GGTCCCTGCCCTCATCTTATATTTCC	AGGTTACCTATATCCTTGCTGATG

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr7	CAGTACTTGAGGTTGAGGATGGATG	CGATATGCAGTGTTTGAAGCTAACT
chr7	AGACTATCAGAAGATGCTGTTAGCT	ATGAAGCTAAAGTTTCTTGGGCAA
chr7	GGAAGAGCTACAACATAATCATGTGC	CTAGTGATTTGTTCGCTCTTTCTTCC
chr7	AATGCTTCTGACAGACTGAGACTAG	TAGATTTACCTCCAAAATGCCAGA
chr7	TGAGTCCCTCGAAACCGG	TTTGAGAGTGGTTTTTCGCAAG
chr7	CAAGCAACTTGTAGATGTTGTGCA	GACATGGGCTGTCGTTGACG
chr7	CTATAGAACTTTGGCTACGCTCCTG	TACATCTTCCTGATTTCCAGTCGTT
chr7	GAGGCTGGAAGGAAATCATGTCC	TGACATTGTCTTGGTCTTCTTCACT
chr7	CTTACACTGGACTTGTCTGTCTCC	AATTTGACCTAAACTTGCCGTAAGC
chr7	GAGTAGGAGTACTCGGCTAAGC	CACACTTTTTGTAAATGGACCGGAC
chr7	TGTCGAGGATAATTAAAAGCAATGGG	GTCCCTTAGCTCGCGTGC
chr7	TGAAGGAACCAACACCACATCTAC	CCACTAAGCTTGACAATAGTTGAGT
chr7	AAGATTCTTACCTACAAAACCAGCA	ACCTTGAATTTACATTGCATGTCCA
chr8	CATGGAGCTAGCTTGGATTTGATAT	AAAGCAATGGGATACTATTCCTATATAC
chr8	TGGAGTGCCAACTTTTAGGATTTTTT	TCATTATCACTACGTTGTGGTTGAC
chr8	TGTATCAGTTTTCTTAAGCCAAAGC	GCACTCATACGTAATTTCACTCAA
chr8	AGGAGTAGTGACATTGATGCGATAA	CTGGTATCATTCAATCAACTGTGGG
chr8	GGTTTTCTTACTACATTGCAGGTTT	AGTAAACATCTTTCTTTCCAACGCC
chr8	GTCGAATGGCAGAAGAGAAGAAATT	CGGAAAAAGGGTCCTGTCTCTG
chr8	AGGTTTATTTGAGATGACCAATTGT	CTCTCCTGGTTCTCGATCAGC
chr8	ACGAGGAAGTGAACAAAGATTCAAC	CTCAGTTGCTCTGTTCTGGACTC
chr8	GGTCAAAGTTGAGATATACTTTGACCC	TGCCATTTCTAAGGTGTGTCTAAAC
chr8	CTGCTTTCGAGTATGCCAGTTAAC	CTGATTTGTACTTTGTACCTTTGC
chr8	CATGCATGGGACCATAGTACTTTTG	GATCCTCTATCACCATACCTCTTCC
chr8	AAGGCCTCCAAGAATCGAAAATTTT	AGTACTTGCGAAGTGATTTCATGAAA
chr8	TGCTTCTCTATGTGTATTTTGTACGT	TCGGAAAGACGTGAGATCGC
chr8	AATAATATAGGAGTTGTTGCGCACG	CTCTTGATGAACACTACAACCGTAC
chr8	ATGTTTGCTCAGATGATGATGATGG	TGCAGACGAAACATAGAAAGGAATT
chr8	TCGTAGGGATACGTTGCGTG	CGATCTCGTGAAACAACGTGCCA
chr8	CATTTGCAGCAAGGGGGTATG	GTGAAGTGAAGAAGGTAATTTAGACC
chr8	TTTTGAATGTGTGCTGGCAAGTTT	ATATGCGCCGTTTGTGAGAC
chr8	TATCATCGACCATCCTGAGGATAT	CAATCTCTAAGCACCTCTCTCAA
chr8	TCAAGGTTACCAAAGTTCCGACTTA	ACGTCTTTGAATGCCTAATGTAACT
chr8	AATCCTGATTTACCTGAAGCCTTGA	TCTGTGAAAAATAAAAGCAATGAAGCA

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	CATAAGGACCTTACCGCCTAAGAAG	AGCCTATGCCAAGATTTAGTAAAGA
chr8	TTATAAACGGAGGGATGAGCTTGAT	AATTCAATCCAACCAACAAACAGGA
chr8	CAACTCTGTGTATAAACTACCCACA	GAGAGTGGAGATGGAGAGTGC
chr8	ATCATCAGGGAAGGGATGGTGTC	TATTAACCAGGATAAAAGGGGGTGG
chr8	GTCTTAGCATTTCTTTGAGATGAGCA	AACGATCACAAGTAAATCCACAAGC
chr8	CTCAACTTCTCGTCGGGAGGA	GTAGCCAACGCCACGGAC
chr8	AAAGATCAAACAAATCAGCTGATGT	ACATATAAAGGAGTGACTGTAGGGC
chr8	CTAGTGCCTGACATAAAGCACAAAA	TTATGCGATAGTGTGTCTTCTCGAC
chr8	TGGATCAGTGTCAATAATCCACAAA	CTAGCCATCAAATGCCAAGTTACAA
chr8	CCCCTTTGTGAAAATTCCTCAACAT	AGCTATTTGGCAAAGAAGACACAAT
chr8	TTTTAGTCAAATAGCAGAGGAGGTG	TTCAATCCCCACAAGATCTTCATCT
chr8	TGATCTCCATTCTCCACTGTCAATT	GTCTCGTCTATCAGTGATATGCAGT
chr8	GTGTGCTGTGCTGATGTTTCATAA	AGCCATTTTCATTCTTTTCTGGATGA
chr8	TCTACTAGGCAAAAGCTTAAGTCCA	TGTTGGATTTCATTGCATATCTACCA
chr8	CTGTCCACACAACTAAACCACTAC	GCATAGGCATTGGGATTTGATTGA
chr8	AGAGTTCTGTTCACCTACACATC	AGGTAATCTGAGTCGTATTGCAAGT
chr8	ATGGAAGGATCCCTGGAGGTG	ACGACTAGGTGGCCTTTGTG
chr8	CCTACCATTTTGCAACATAGTCCAA	GGGCAACATTGATTTCTTAATTAAGC
chr8	TCACCACCACTAGAGAAGAATACC	GATCTAGCCCCACAATCAGGTC
chr8	ACCCTTTTGCAAGATTAATTGAAACT	CTCACCAGCAGGAAGTTCAGG
chr8	CACGTTGAGTCGTTGGCATTAC	GTGCCTCCGATCGCCTGA
chr8	TAGGAAGGTGGAGTGACGGTT	CTACCACAACCACTAGGCCA
chr8	GGCATATTAGTACTAGTTGGAGGCT	CAAGAAAACTGAGTATTCGTCCCG
chr8	CTAGGCTGGACAGAACCGAAC	TCCTGAACCTCCTCCACGG
chr8	TATTATCACCAGTTCTCCCCTAGGA	TTTCAGCTCTTCTAGAAACACGTTC
chr8	CTTCCTCTTATGCTCGTACCGCAAT	TAAACGTGCTTTGGTGAGAGTAGTA
chr8	TTATCAGGACCGGCCAGAATCTTA	TGGACACATATGTTTATATGAGCGA
chr8	CACAGATCATACAAGCATGGCATAAC	GCTTCATTGGATATGAGTTTACCCC
chr8	GGTAAGGAAGTGACCAGATGTGC	GATAGGATCTTACGGCCATTGGG
chr8	CATGTATCCTATTGTTGTACCGAATAATAA	TTCTCCCAAGCAATTCGGTAAAT
chr8	TCAGATCCGAAATTTGGGATGATCT	AATAATGCAGAGTATGGAACCTGGGA
chr8	GGCATGCAAAATATATCGGCTACT	ATAATTAGCATCGGCAGCTACAATC
chr8	TTTGCAATATGCTTTTTCTTGGTGC	CTGTAGAGCTGGAACCAAGTGTAG
chr8	TGCTTTTGAGCATGGATAACTTTTCT	TGTCAAATTGTTGTGATCCTTGAGA

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	CCGAGCTCCTAGTTCAAATGATAGA	TATCAGATAAGTGAGGCAAAGCTCA
chr8	CAACATGCAGTGGCCGAT	ATCCCACTCCTAACGTAGCTTC
chr8	ATTTGTGAGGTTTTGTGCCGG	ATATTTAATTGAATATAAATTGGCCAAGCCC
chr8	CTCCAATGCAAACCATAATGTGAGT	AAAAGTGTGTCAATAACGAGCATCA
chr8	GGAACCTACAAAACAAGGCTGTC	ATAGGCCTCCAACCAAACAA
chr8	TGAGTACATGCACCTAAGAACTCAA	AACCGGACGATTTCAAAGGTAAAG
chr8	GCACATGTGATGGAGTAAGATATGC	TCAGCTGAATTGGACACTAGTAGAG
chr8	CGATGCAGCTGTTGAACTCAAAG	TGCTGTTATTTCTCACGGATCAAAG
chr8	GGAAGAAGAAAGAGATGGCGGA	AAGCAACAACGACGAATCAACC
chr8	CTCCGCTGTCTACCTTCTCAC	AACAAGCCTGCATCTAAAATCAAGA
chr8	CCAAGTCCACACACAAGGATTAGAG	GTGCTGCCGAACGTGCTTG
chr8	CGCCAGAGATCATGGCATTATTTAG	CTTCTCGATCTTAAATCTGGTCGCA
chr8	CGCGCTCTAGCTTTCCT	ATAAGAAAGCAACGATTCGTCCATC
chr8	TGTGCCGAATCGTGGAGTTAG	GACATTGCGGTAGCCATATTTTCTT
chr8	TCATGCTATAAACCTATGGCTTCA	GGCAGGCCATGTTACTATTTTTAGT
chr8	AATGGTCAAAATCTAATTTGGGAGAC	GTCACAAATCTAGTGCTTGCGAG
chr8	CAAAGCGATCATCGAGGTTCTTTAA	ATACACACACACACAAGTTGAAAGG
chr8	TTGCTGCCATGAATACAGTCCTAAA	ATGTCACTACCATCACTACCGATTTC
chr8	CTTGCAGGAGGTACAATGTAAAAGG	ATCAACCTCGACAGAGTGTCTATTTC
chr8	TCCCTATTTGACACCGAGTAAGTTT	GTTGGAGGACCGGAGCTC
chr8	TCGAACGAGTTTCTTATTGGAGCTA	CTAACGGAATGGTCCTGTTACCTAA
chr8	TAGTCGATACGAATGTCATCACCAT	GGAACGAGTTTGAGACAAGTCAATT
chr8	GCTTTTCCTGGCAGCGATG	GCTAACCTTTCCTATTACCAGACTT
chr8	ACAACCAAATGAAGGTAAGGTGTTTC	GAGTTGATCAATCGCCTGAGTATCT
chr8	AATCCCAATTGAAAATCATGTGCCT	AAGTGGATGCCAAGTTATTCATGAG
chr8	GTCGCATGGATTATCTTCTGTTGT	GCTCAATGGGCTTGGAAGTATTG
chr8	GCCCTTATGCCATCTGAATATCTA	CTATGTGCTCAGCCTTCAAACATAG
chr8	GGCAACTTCTTGATGTTTTGTGTTT	CAACTGAACAAAATCCATGAGCTGA
chr8	AGCCATATATATCCTTCGTACAAAGAC	TGTCTTTCTTATTGCAATATCTTTGTTCA
chr8	GAATTGAATGGCAGGGATGTGAAAG	AAATGCCCTTTTTAAGCCTCAGTTC
chr8	TGGTGTCAAGTATTTTGGTCATGTA	TACTTTCTGTGAAATGGACCTTGCT
chr8	CCGATGAAGAATGATGGAGACTGTA	ACTGAACTGGTTGGCTAAATTAACC
chr8	ATGCCATACAAGACAAGACAATTCA	TAAAACAAGCAAGAAGTATGGCACT
chr8	AGTTGAGTTACTGAGAGCAAGAGAG	TCGGGTCACCATTTTCAGC

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	GACCAAGTGTGATGTGTGATTTGAA	TGCAATCTCTCCATAATAGAGTGCA
chr8	GTTTACTTGTAACACTTTCTCTGTTGT	ACCGCATGAACACAGAGTCAC
chr9	ACATACAATGACAATTTAATAAAAAGCTCA	TCAGGCACCACGATCGTG
chr9	AGGCTCAACACTAACTACAGAACTT	ACTGAAAATGACCATTACGCAACA
chr9	ATGCAGTTCATTTTCTGTTCCCTTGT	TGGAACCTCTAGACCTATGACCACAT
chr9	GTTCATGCTATGGTCCATTTCTCTG	CAGTGTTCATTTATGCAGATCACAA
chr9	ACTCTGTACTTTATGAATAGTCACTACGA	TTCAAAATGTGCTTAGACAATGACC
chr9	CTGAGACTAGCCCTAGGAGGATTT	TCTTCCAGCAAATTGGCATAAAACT
chr9	GGCTGATGTTTGCTTGTGTTAAAAA	CGGCAATTTGTTTTGAAATAAAGTTTCC
chr9	CTCTCCATCTCCAATCTCTGGTTTA	GGCCTCGGTAATAAACTAGGATGAT
chr9	TCATCTCCATCTCATCAGGTACTCT	CCTTAACGTTGACTTCCATATGAGG
chr9	CCTTCACCAGTGGTAACTTATTCAG	CAACCAGAAGAAGTCCATAATTCGG
chr9	AAGATGAGCTGGTTGAGAAGTATCC	TGGCTCCATACTGTCCTTCAATTAA
chr9	AACAGTTGTTGCTTGTAGTGAAGA	CAGTGAAACAGGAATGACATCAACA
chr9	AGTTGATGTAACATGAGCAAATCAG	ATGCTTTGTTGTGTCACTAGGATTC
chr9	AAGCAAGAAAGAAAATTACCGTGGG	GACATCGGTCTACCAAGAGACAAAA
chr9	AAGAAAAGTGACGTTACTCTGCATG	TGGAAAAGCTAGGGTTTGGAGATAA
chr9	GAAGAGAGAGGGAAGCATAACAAGTA	TTTAGGGTGTTTGGTTTGGCCTTA
chr9	TGTGACTTATTTACCATCATAGGT	TTAAAGGCCATTTTCGCATCCATTTA
chr9	CTAGCCATCGGAAGTGAGGAGAG	CAACCTTCGTCATATTGGAGAAGAAA
chr9	ATGGTCACTGACGGAGCTCTAG	GGGAGATTTGTACCGTGATCAGAT
chr9	CAAATTCCTTCTTCCACACAACCAT	AGCATCTCCCTACTAGCCAGC
chr9	TGGGTAATTTAGATACAAATTTAGAAAGGAA	ACTCTAATAATCACAGCCATTGGTC
chr9	AGGAGAAACAGTAGGTGAACCAG	CAATCTTGGTGCAACTTCAGATCA
chr9	AGCATGGCCTTTCTTTTCATCAATAG	TTTTGTGGTTGAAGGCAAAGAAAAC
chr9	GTCACAGCTCCTAACTTGTACTTCT	GAAGCTATCCCCTTCATTCCTTCG
chr9	CTAAAACTAGCAATGGCCACCAC	ATACCAAGGGCAGAAGAAGTGGAC
chr9	ACTTTTGTGGATCTTCTATGAACAACA	AGGTCAAGATATAGGGATTGATTCCG
chr9	CTCCAAAAGGTCTCCAAAAATCCC	CTGTTTAAACAACGCGGGTAAAGT
chr9	AGCTAATGATCTGATGAGTCCACTC	GTTGAGACAGTGGTAGCCCGTTAG
chr9	CCACCATACCGACCTATATTGCTTA	CTATGCATCCACACATTCAACTCAA
chr9	GAAATTCGAACAGAAAGCAATGTGG	GTTCTCATACCCCTGTACTTTTCCT
chr9	TCCATCCAATCATCTTCATGGCTAA	AATCCTTAGACCAAAAAGACAAAGCG
chr9	AAGGAAAAGTATTTGGTGAAGTCGC	CTAAGACGGTGACCAGTTGAAGATA

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	ATGCCTTGATGAGCAGCTTTATATG	AATGACATCAGGAGAGTTACCAGC
chr9	AGGTCATATCGGATATTTGGATGCT	GTTTAGCTCGGGACACATAGGAG
chr9	AGGGTATTTATAGTCTTTCTCCCTCT	GCGTTTCGTGACTTGACAATTAAAG
chr9	GATTGCTGCACCAACTCATCAGAAA	TAGGAGAGGTTGCTGTCGTAGAT
chr9	CGGTTTTAAAGCCAAATGGATGACT	ATCCAGCCCTCTATTTAAGACTGTC
chr9	TTTCGCACCGATAGTTCAGGT	GGAAGGTCCCAGATTCTGATATACT
chr9	AACATCAGATTTATGCCGCAAAAGA	AGCTATTCCCATTTGTCGAGAGAATT
chr9	GACCTATGCGTGCGGTCTT	CAAAAGAATCCCGTTGATGGAATCC
chr9	CCTGCAGTCCAATGTTCCTAATTTT	CTTTCGCTAAATCTCTCTATTGGCG
chr9	CTTTTGTCTTCTTCATCAAGTCGGG	GTGGCTTTGCGCAGGATAT
chr9	GTAAAAGATCCTGTTAAACCACGCA	GTGCAGGGATGGTTACTACCTAAC
chr9	AATCTCTTGGATCAGGCATTGCAT	AAAGTTTTGGCCTCGCGCT
chr9	GTGCTAAACTTTTGTACGGGGTATC	ATCCTGATGATTCTAACCTTACCGG
chr9	TCTTCATCGACTTGAGCTAGCC	CAATGCCACCTCTGTTTCATCTTC
chr9	GGAGATGGGAGAGGTTCAAATAACT	TCCTATCCTATACATTCAGGTACCCT
chr9	ACCGTTACAGGTAGTGTGTAATAACA	ATTGTTTTAGCCATTAGCCCAATTAC
chr9	CGTAGTGTCTTAGACGACGATGTG	TAGTCCCATGTCATTCGTTCTGATT
chr9	GGGCAGGTGAACCTTATATGAAAC	TCTATCTCTGCACCTTTAAACTCCT
chr9	AAAGAAGAAGAGTTTGGCTCATGTC	CGATGCTTATCCTTGCAAGATTCTT
chr9	ATTTTCTTTTCCACCTCCCGTTTTTC	TCGCCCTCAAGCTGGTTG
chr9	TTTCTATTGCGTATGTTTCGAGTTGG	TGTGGTGAATCTTTACGAGTTTTTACT
chr9	AAGGGTTGTAGAAAACCTGGTGGAG	CCATCTTCTTCACATAGGCCCTTTA
chr9	ATCTTCTCTACTAGCCCTGTTTTTC	GCCGTAGTCTTGATCCACTAATCTT
chr9	TTTAGCGCCAACACCAACAAAAG	CCTCGATTGACCCCAAGACTC
chr9	ATGTTGGTGTGATTTGGATCTTCC	CCGATAAATCTACCACCGATCCAT
chr9	TGCAATCAATCAAGTTCATGAGCTT	TAATGGAAATTGATGCCAAAAGAGGG
chr9	CATCTTTGATGTCACAAGCGTTTTT	TAAAGAAAAC TGCCAACAAGGTGT
chr9	GAAGGCTGGCATAGAGACAAGG	GACCAAGGACGAGGCCATC
chr9	TTTTGTAGCCGTAGAGATGGATTCG	GAGGCGAGGAGTGATGATAGTG
chr9	CCGTAGTCGCAGTCGTACTC	CATCAACGCCAACAAC TACCATC
chr9	ATTTGATTCTAGCGCTTCCCATAGT	TGAACTTCTAAAGGGCAATTTGGAC
chr9	GGAAAAACCATGAACTTTGGTGCC	TTTTTAGGGGTATGGAGGTTAGACC
chr9	TTCTTTGTTGCAATGACGACTACTC	AGTAATTGACGCTTTAGCACTTGAG
chr9	TCGAGTTCCAGATGCTTAGGAAC	ACAGATCAGACTGGCTAATCAAGAG

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	GCAGTTCAACAGGTAATGATCAATT	AAGCTTCACAAAAGATTTGCAATGG
chr9	TTCAGGCCAATCAGGTTATGACTTA	CCAAATACATCAATTTGACATCCACG
chr9	GTGACGGGTGCTAAAAATAAGCTG	GTAGGTGGAGCTCGACGTG
chr9	GGTTTTTACCTGTTTTTGACCGAGA	GTATGCTGAAAATTTGCAAGTGTTC
chr9	CGTAATCTCTATGTCTGACACGTCT	ATAACGCCAACGGTACTAAATTGAC
chr9	CAGAAGGGGTCAAAAACCTTCATTGA	CTGGGTCTAAACATTGACGGTCAG
chr9	CTGGAGGTTGATCACTTAGGCTT	GGTCTGGCCCCCTCTGAC
chr9	ACCGAAGCTCTTCATCATTTAGCTA	AAAAACTATCTGACTTCAAGCGCAA
chr9	ATTAGTAGTCGTGGTGATGTAGAGC	TAACCCCGAGAAGATCTTCACTATC
chr9	AACCACAACCAAGTAGAGACTAGTC	CCTAGGTCGTATAGGCTACAACTC
chr9	AATTCAAACTCGCGAAAAACCCAAA	TCATTTTGTGTGTTCTAAGAGTGCGG
chr9	TAACTTGATGTCCCTGAGTAGTGTG	AAACATCATGCATAAGAGTCGTGAC
chr9	CAGGACCTGTAAAAATAAACCTTGCA	CCCTCTCAAGGCTATAAGACTAAGT
chr9	TACAACTGATCCGTACGCTTATGAT	AACTTGGTTTGCAAGCTTATCATGT
chr9	CCCTTTATAAGCCCGAAGAGGTG	GCCGCTTGACAAGACAAAATGA
chr9	CTCAATTTCTCACGTTTCCATGCTC	ATTAGACGATGCCATTATTAGCCA
chr9	GGAGTACCCAAGATAGAGTTTTTGG	CTGAACGTAGTCAATCAAAGTGCTC
chr9	CCTCCAATTAGTGCCTTGAGTCATA	ATTGCCTAGTCGGGTAGTAAAAGTT
chr9	GACATGCCTCACTGGTTATGACTA	GAGGAGGTGGGCCAAAGAAT
chr9	GCAACTTTAGTGCATTTTAGTCAGG	GTGTACTTGGACTACGAGTTGATTG
chr9	ACTTGAAGGTGATCCCAAGAATACA	CAGTACCAGTCTACCGGATATCATG
chr9	TCATTCTTGACTGTTGTCTACTGCC	GCGTAGAAGTAGAAAACGGAAGAC
chr9	AACAAAGCAAACAGAGGAAGAAAAT	TAAGGGGCAAGAACAAAGAAGACTA
chr9	AAAAGATTCATCGACTGTTGACCAC	TTCTTCTCGGATTTGGTAAGTCAT
chr9	GAAGAGTGGCTACTTCGGTTTGG	TACAGGTATAATCACCAAAACCGGT
chr9	ATTATCCATCTGTGCGAGGCATAT	TTCGACCATTCAGACATAACAGTTG
chr9	CCTGGTGTGGAATGCCTCTATTTAT	GTTTCAGTCGAACTCCCTAACCAC
chr9	TTTTTCATGCACAGTGACGGCATC	ATAATATGGTCCTGTTTGGCATGGC
chr9	GGAATTTTCTCTTCTTGGTGCTGAA	CTATGCAATAGCGTACCAAGACC
chr9	CGACCAAGAGAGTACAAAATGGAAG	CTACTAGGCATTGAGCTTGAGGG
chr9	CTTCCAAAAGGTAAGGTTGATTGGC	TGTTTCTCACGCTAACATTATTGGG
chr9	TTTTCCCTCAAAAATTTCCACGTT	AACTCTATTCCTGCTCGAAATCAAC
chr9	TCAAAGACATACAAGAAAAACAATAAGCT	AGTATCCTGCGGTGAAATATGTGTA
chr9	CCCTTACTCGCAATCTATTCCTAAA	CTGACTGTAGCTAGCACCTCTTTAT

表 A.6 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	GGATGAAGATCTCGGTGGATATCAA	AGTTTGTAGTAGGGGGTTACAACAA
chr9	AAGAGTTTGGTGATCAATGATGCA	GCTCGTGATACATATGGTTTTGTTGT
chr9	CTCTGACTGTCTGGCCATTACCTAT	AAGACGAACGATTTCAGTATAGTGCT
chr9	ATCTAGGGCCATGAAAGCATCTAT	AACGAGTTTCACCCTCTAAATCCAT
chr9	AAATTAGCTCTCGCTCCAAACAAGA	ACTTCTGTTTATGATCGGATCGGAT
chr9	CATTGTTGGTGGCGGCATG	CATGTTCTTCTCTAAGCTTGCCAAA
chr9	AGCACTGGTATTTAGACAGAGTTGT	ATGCTTCTCAACAGGATAGCTACAA
chr9	TTCTCCATCTCCTTACCAAAGAGTG	CATCTTTGAATTGTGGTGCATTGTG
chr9	TGACGTATAAGTTCATTGAATTGCTTG	GCAGCTTGTGTTATGTGTTACTTGA
chr9	CCTGTTGTGGATGCTGAGTTTAATC	GCGTTTGGTTTGATTTGACTTCATTT
chr9	CCTCCTCTTTGATCTTGTGGTTAG	CTAATCGAAGCTAATGGAAGGCGTG
chr9	AACTAGACAACAAACAGTGGCAATG	ATGACGGTGTCTGATAACGTAGTAG
chr9	GGCATTTGGTCTAGTGGTATGATTC	CTAAACGTCAAAGCCGAATTTTGTG
chr9	TGTACCAAATACTTGTCTTCGACG	TGTATCGTGCATGCGCTATAATTTT
chr9	AATATCCTGTTGGCATAACGAGTGTA	CGTAAACCTCTGGTTGGTGTGAA
chr9	ATAAAGAACGATCATCTGGAGGGAA	GATTGGGAAAGTGAAGAGGCTTATG
chr9	GTCTTAGGCTAGTCTCTGTGCATG	GGCTGAAACATTGTAGCTCTAATCG
chr9	ATTTAACTAATCAGGAGGGTAGGGC	TTAGGAATCAGGACACAGTTGGTTT
chr9	AAAAACAATCTGAAGAGAGGATCGC	AGGATACGAAGAGAAAACTTTTGCA
chr9	AATCCGAATCACATACACCAGTACT	CGAGATCTTCGTACCTCCAAG
chr9	ATAAGCATTACCTCACCCTACTGAAT	AATCGTCGATTGAGCAAATAAAGGG
chr9	AAAGAAGGCCCTTGCTACTACTAAG	ATCTAACCATTGTGCAACGGATTT
chr9	GACATGCTGGTCTTAAGAGTTCCCTA	GGGTAGTGGACAAGCATCGATC
chr9	AAAAATCCTTAGGTGTTGAGGTCCT	GACTTGATCTACCCGCCAC
chr9	CGACTTAGGTTATGATCTCCGACT	CACCATCCGTGTATGTAACAAATGA
chr9	TCTCTTTGTGATTCATTTCCCTCGTG	CCGAGAATTCTCAGTTATGTTACG
chr9	GATGTGTCACATGATTCTTCCACTC	GGAGTATTACAACCGCAATGCTTTA
chr9	TTTGTTTCGGCCTCCAATTCTTTTT	ATCTTTTATGCCGCTTTCGTTTACA
chr9	TTTCCTCTTGAAAGATTGCATTGCA	CTATTAGTTGAGTGATGTTGGGCAC
chr9	CGCCACCTCTCAAATCCCAA	CAGCGATCGTACCTGAGGGA
chr9	AGATTGATATCAAGCATCACCACAAC	TGTGATGTTTGATTGCGAAAGTACGA
chr9	ACCACTATTATCACCTTTAGCACC	CGCATACCGTTACTACTAACAACAC
chr9	TTGTTAATAGGGAACGCCCTACTACC	GAGGAGGAAGGGAAGATGTGATG

A.7 西瓜 MNP 标记引物

西瓜 MNP 标记引物见表 A.7。

表 A.7 西瓜 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr0	TAACATACCCAAAGATTCGCATACAACTT	ACATGCAACGCAAATAAACACACAT
chr0	GCGATTTAGGCTTGCAACTGTCG	TCGACCTTGATTCCCTGATTTCATCG
chr0	AAGGCAATACCTGCAAGATTGGAC	TTTATCCTTGACTGTTATCCATTATGCACAC
chr0	TTCAACATCTGCACTAAAAGAGGGAT	AGGAGGAGATGCCTCATTCATC
chr0	AATAATACAAGAGGAGCAAGAAGCAATGTAA	TTCCATATCGAAATTTGAGAAGAGCATC
chr0	CAATCATTTTAAACATATTGCAAGTATGGACTC	AGACTCCTAAATATAAAGTGGAAGTTGAAAGACT
chr0	AGAGGTGGAAGAGAGCTGGAAAA	TGATCTTGTAGTGCAAATTGAGTTGTGAT
chr0	AATGTGATCCCATGGTGTGTGTAT	AGGCATGAAATTAAGAGGTGAATGAAATTGA
chr0	CGAACTGAAAACACGCTCCAAAT	AATTTCTCACCGCTTCTCGTGTC
chr0	TCACTGACAAGCAGTAAAAAGGATCCT	CCAAATCAATTTCGAGTTGGCATTTAC
chr0	AATGCTAGTGAATGGGCTGGAAAA	CGACCACAAAAGCCTTCAATCTCTG
chr0	GCGAAGTCTCTTTGCTAGCAACT	TTTCCAACTTGAAACATAAAGCCACTTACA
chr0	CTTCGTTCTTCAGCATGTTTATAGCTGG	CATCCAGATTCTTTTCTCCTCATCTTTA
chr0	CTGTCCTAGAACCACAATAGCTTGGA	CCATCTTGATCAACTGATGAAATTCCATAA
chr0	AAAACATAAACTAAAAGAGTGAGAGAAGGTACA	GCTTAATAGTTGGTTAGATTTGAAAAATAGGTGGA
chr0	AAAGCTGGGATACATTTTTCTTGATTTTGTG	TTTTTCTGCTTCTGTTTTGTAAATTACTCAAT
chr0	CAAGCTTTGGATGAGCATGCTTA	ATTTCTTATGGAACAATGAGGCTGAAGAG
chr0	ATTAAGGAACTGAAGGTGAAGGCATAGG	TCGGATTACTATACCCATTCCCTTAAAAAGCT
chr0	CACTCGAACCTGTGCAAATTAGAAGC	GGATGACAAGTTTTAGAGATTTGAAACTGGA
chr0	CCCTTTGTTGGCAAAAATCTTCCT	GATTCAAAGCGGATCCTCTCCAATAAG
chr0	GATTCAACAAGTGCGCAAGAAC	CCATATATGACCGTGCTTCCTTC
chr0	GCTACAATAACAGTGGAATAATGTCGAA	AGGAGAACAAAACCCTCAAGGATGG
chr0	CCAGTAGGTACCTTTAACTGTCTACCTT	CTGACATGCTCCTGAGGATGTATGT
chr0	AGGTTTCAATGTTTTCTCTTTGCTCTCTA	GAGATGGTGTGAAGAGGTGAGAATTTTC
chr0	AAAGAATCCAAAAGAAAGCATGACTGAAAG	TGTTGACTGTTTATAAAGGTGCATGTCTTAT
chr0	GTTATCTCTTTTGTCAAGAATGATGTTTCAA	TCGCAATGCATCGATGAAGCG
chr0	CTTTTGGATTTATATGGTTAAAGTTTCTCAACTA	ACTCTCGGGAGATATACTCATGGAGATAA
chr0	GGGCAGTAGAAAGCCAAAAATAAAA	ACAACATCTCCGGAATCTCTTGTTTTT
chr0	CCAAGGGAAGAAAATGTTTGAATGAACTT	TGCGGAGAGTTTGGTAAATTTTGAATTTTG
chr0	CACTGCAATTGTCTCCTGTGATGA	AAGCAAATTATTGGGACATGCAAACTG
chr0	TTTGGTTGGGAAAGGTTGAAAAAAGG	GGGAGGCATCATCAAATCTTTGAAAAATGG

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr0	AAAGTTCTCTTGCCATGGAAGGTG	AGAAAGGTGAATAGTTGATCTCTTGTGAAGG
chr0	AAAAATGTCAGGTCATAATTTTGGCTAGAAT	CCCATCACCACGTGACTTAATGGG
chr0	AACCTCTTCTGTTTTTAATGTGGCAAAT	TGAAACTGTATTTCTCTACCCTGTGTTTCC
chr0	CGAAGAACTGATCCTTCGAAATGTCG	GGTAAAGTAGATTATGTAGGCCAAATGGAAT
chr1	TCATTGGAAGTTCTTTGGAAGGACC	CTTCATAGATGCACTTTAGAAGAAGGTGTAG
chr1	ACTAACCTTACTTTTGTGTTGGCTTATAAGTG	CTGATCATGAGCATGATGTTGAAGAACA
chr1	CCTAAGTAACATGCTCTTGGTTGCTT	ACCAATCCCTCTTGGCATTGATCA
chr1	ACAAACCAAAATGACAATTTTGGACCTT	CGACGTTGTTCTTGTGTTAAGAGTCTTTTAAA
chr1	CACGAACTAACTCGACAATTTAAACCGA	AACCATTCTCATTACAAGCTCCACATC
chr1	CAACAGCTAGTTATAAAAGCTGCATAAAGAA	CACCATGTCAAAAGAACAAGCTCTAAATTAC
chr1	CTTTTGGAGAAACAAAAATCCACCACTC	GGTATGAGTTGGATTATCCGAGACTCTC
chr1	TTTTTAGTGTGACATGACTCCTACTTTGAC	TGTGGAAGTCCTCTAGAGCCAAC
chr1	TGTCCTTTACGCTCAAATTTTGAGTTCA	CTTCCCTACCCTCATAAGTGATTTTGTAAA
chr1	TCTTAAATCTTACTTTTGTGGCCACTACATT	GCTATTTTGTGTTGTATTTCAAAGTAATGATGGT
chr1	CTTTCAAATTTAGCCAAGAAGGCATCTT	AAAGAAAAGATACAGCAAGAGACACGTTAG
chr1	GCCTTCCTCCTTGCTCTCAATCT	TTGTTGCCCAAAACATTGGCTTTAA
chr1	AGTAAGGAGTTGAGAAGTGAGGAGTTG	TCTAAAGGAAGATTTGAATTGTCTTTGGATC
chr1	GAGAAGGAAGAAAACATGAACATTACCAAA	CCAAATTGCGCAAATAAGAAATCTGCC
chr1	CGTTTACATTCACTTCAAGTATTCGTGAC	AACAGAACTTTGCTACAGAAACAAACAAAA
chr1	ATGGGAAAAACTTTGAAATATGGCACAAG	ACAAGTTTTTACAATCTTATGGGTTTTCAAA
chr1	TCCAAACAAACAGCCCTCACTTT	CCCAAATGGATGTATAAAGGGTTGTAAGGG
chr1	GAATCATAAGTTTCCGGTACATTTTAAAGACAT	GAGGGAGAACTGGAGCATCCT
chr1	AGAAACTCATGGTGTGTTGAGGCATG	GGGATGGATTCTCCTTGTGTTGGTCA
chr1	CACCATTTTAAATGGTTGCTTTTAAAGTTGAA	CATTGTTTGACTTTGCAATTCTCTCCTTC
chr1	TGGTAACTCTTTGAGTAATGTAAGTTGCAA	GAGGAGTGTGTGGCTGAAGAAAG
chr1	CCCACAAATCTTTCAAAAAGGTCATGTA	GGTACTGAGTCCTCTGGGAACCTT
chr1	GAACAATCAACTAAAGACTTGGAAGAGAA	CACTGGGTGTTTTCCATTGTTTCCA
chr1	ATAGGAACCTTCGGTGAGCTATCTT	GTTTCAGGTTTGAAGGAGTCTAGAAGGG
chr1	TGGGTATTGCTCGAGTGCAAGG	GTTGAAGGGTACTACTTGAGATTAACTCTCC
chr1	AGTGGTAGCACATCCAACTGTATTCT	GCTTCGAGCTCTAACTATGACTAACTAGTAT
chr1	TAACAAGGCACCAAGTTGTTGGAT	CTCTAATACACCTTGTCTCTAAAGGTG
chr1	CCACCAAGACATACTGTGTACAAAAATACA	AGATCATCTGTTTTTACACTGCCCATTTAC

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	CCCTTAGAAATCACGTTAGAAACGATAGTA	ATGGATCTTGGTTAATGAATACATTCTGCTG
chr1	GAGAAACTTAATCAAAAGGATGCTCCAAATA	TAGTGTGGCCTCATTCCTTGTGA
chr1	CCAGCACGCTGCTTGTATAGATC	GGTGTGAAGGGCTAAATAGCGAAA
chr1	CTATATGCTTTCCTCAGCTAATTTCTGGAT	CGCAGAATCAACAGACCCAAATCTC
chr1	GAAAAGGAAATGAAATGAAACACTACACCTG	GGGAAAACCATAACCGAATTGCTAAAATAGT
chr1	AAATTCAAATTTAAGGTGATACAGTTCAAACTT	GTTATGTAATTGTTGAATTGTGTAAGTGATGCAT
chr1	GTGAGAGAGACTGGCCTAGTGAG	ATGAACCACATACTTCTTAGTCGTTAACAC
chr1	CAATAATCAGCAAGGGATGCCAATTC	GATGATTCCAACAGTAGCATCATTAAGCC
chr1	AATCACAGCATCATGCACTGTTTGA	AATGTGAAATTCACGTGGATGTTTTAGGT
chr1	GGTGGAACCGGTATGTCTGG	CCCTGGTGTCTAATAATGTCACAAATCC
chr1	GCCAATTCCACTTCGGAATGTCA	GCAGAAGAGGATTGAACAACATTTGGA
chr1	GGCCTGGTTCCAGACTCTAGTTC	AATTCACACGTACAAAATACACACAACAATG
chr1	GAAGCTTGAGATTTATTCGGAATGTC	AACCATGCATTCTCATCTAACCTTTTCTATT
chr1	TTTTCAATGTCTTGCTTACTTTTGTGCTC	TCAAATTGAAGTTTTTGTATATTGTAGGATGACA
chr1	CAAAAGTTCAAATTTTCAAACAAAGGCCTTG	ATAGATCTTGAAAGAGTGAGAAGAGGACAC
chr1	ACCCAAAAGATTTTAACTTCATTGAGAAAA	AACTGTTTGTTAAACATGCAAGAATCCAA
chr1	TCTCTTTGGCATAACTCATAAGGTCATTGC	CCTTGGAATCTTAATCTTCAAAGACCGAT
chr1	GGGAGAATTTTCTCCTTCTCTTTTACCT	AAAAATTTGAATGCATTGCGCATCAAAC
chr1	TCACAGTCCTCACTCCTCACTTT	GTTTACCAAAAAGTACAATGACAGTAGCTC
chr1	GAGAGATGCAAAAGCTACCAAAAT	GACCCACCTTTGTTATCACATAAGGAAG
chr1	AGAGAAATTAGGAATGGAGTCAATTGGATCA	GGCATGCCCTATTTTCAAATGGGA
chr1	CCCTGGCCTCAATCAAGAATTTGA	TACATGTTTCTTAGTCCCTTGGATCCTC
chr1	GCTGTGGAATCTGATAGGAAGAATGAT	CACTCATCAGAAAGTTCTTGATAGGCTG
chr1	CAGATGCTTTTGGATGGGATGATTGT	AACAAATGCATGATGGATTCTCAACCC
chr1	AGGGTTTAGGATATGCTACACTCTTTAATTT	GGTTACCGCTAAGGTGAAGCTTATTCT
chr1	GGGTGATATTACTAATCTGAGAAGTGAGACT	GAATGGAATGGTCCATTTTAGAGGGATAGT
chr1	TGATATTGCGTAACAATTTTGAATGGACTCC	TGAACGATGGATCTAATTGAAAAGAATGGAA
chr1	CAACCTTGTCTTGTGAGTCATAGGAC	GGACCAAGTTTGAAGATAGATGAGTGTATA
chr1	GGTCTTTCTTTGTGCACCAAAATGGG	TCATTTACTCTCATTTTACCAACCTCCAAA
chr1	AATTTCTTGAAAAGCAACAAAGATTTTCATGCT	CTTACTATATAATGTGCTGAATCAATTCACGGA
chr1	GGCACAAAAATATCCCACCACAAA	CGCTGTTAAGAATAACACGAATAAGAAAT
chr1	CACAAGCCGACACCTTCTTTTTT	GTGCCAAAATTAAAAGAGAGAGAGGGAAAGA

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	AAAAAGCAACGGTCAAGAGAATTCAA	CCATGTTCTTGGAACCTGACCAAAC
chr1	GGTTGGAGGTCTCACCTACTAGAA	GGGCGTTTGTTCGAGTTGTTTGA
chr1	TTTTTCCTTTTCAATTCATCCCAATTGTCC	GTCAAAGTCAAGACACAAAGTAACAAGGA
chr1	CAACTTATCTGGACCTCTCTAGGGTTT	ACTCCGGGAGGAGAGAAGTAAGA
chr1	TGGTCGGAATAGTATCCAAAATTTTCAGAA	CACAGAGACAGCCATAAAAGCATCC
chr1	GCTGCCATCAGAGGTCATGATTA	ATTTTCAGCTCTTAGGTTTCTATCAGGAAAGA
chr1	TCGAAAAATGGTAAATCTCTATCAAGTCATCAA	GGGCATTAAATGAGAAAGACACGAA
chr1	CGCTTCAGACGATTTTCCCTCTG	CGCTTTGTACCGAAATCCCATTGG
chr1	CCTCTTTATTTTGGTGGGAGATTAGAAGGA	TTTAAGTTTGCCAAAATTTCTTGAGCTT
chr2	AATCCCTTCCAAATGGCTTTTGCC	TTCTGAGCTGGAACAAAAATTTCTCAAGA
chr2	GGGAGGCCAATTTTGGAGAGTTA	TATGTGTTGAGTTGCATGCTAATTAACAACA
chr2	AATGTTTTTGTGATGAGAATGGAAAAATGTCTAT	TTTTAGTCATTTTGAATCGATCACTAAGGAAGAA
chr2	TTGAACCTCAATTTCCAGAATGCAAAGT	TCTCTAGTCAATCCAAAGATGCCCTAAA
chr2	ACAACCATTATAATCATTTGGGACAATATACTT	TTTGAGTCCATATGTGCTTCTAATTCAAAATGA
chr2	ACTCCGAAAGAGGGAAATTGATTTTGTAG	TGACCACTAGATGGTCAAACCAACA
chr2	GTGCAGAAGCGATCACCATCTTAG	TGCGATGGTTATGTTTTTGCATTATGTGTTT
chr2	CGCTTGCAGAAACGACTCTTTTTT	CAACGTTTCACCAGTTCTGTCTGC
chr2	GGAATGTCCAAGCAAACACAGAA	TCGGTTTGATCTTTTGTAAATTCCATCCTC
chr2	AAAATAGTTTTTGGTTTTTGGTATTGTGTAATGGA	AACTACTCTTTAGCTAGTAGTTTTATGTACCAAA
chr2	ACATTTTCAACAAGCAGGAATAAAACAAGAA	GCCGAATGCCAGAATTTCTGTGA
chr2	AAATGCCCTTTCTTGTACCCATACTT	ATGCACATGAATATCCTTTATGTCAACAT
chr2	CTTGGCACCTTTCCGTAGAAAATTT	AAGCTCACTGGAGCTAAGTGTTC
chr2	TTTTTCTTGCTCTCAAGCTTTGTCTTT	TTCACAAGTTAACCTAACCTATTGCTTTCTA
chr2	ACTAAAGGGATAGAAAAAGTAAAGTGGTTGTTTT	CACAAATAAAAAAGAAGAAAGAGAGATGACACGT
chr2	GGCTCAATCAGCTCAACAACCAG	TCAAATGGGTTAACGACAAAAACGGA
chr2	GGGTAAGAAGTTTGAAACAACTATTCATTTCTT	CTGCAAATTCGAAAGCATATATAAATCAATGGTT
chr2	TCGGTCTCTAGAGTTGGTCGTC	AATACATAAAATTCCTAAAATGTCTCACTAGTC
chr2	CCCTCTTTAACTTTCTCAAGATCCATTTTGT	GAAGATCGTGAATGGTTACAAATTAAGGCT
chr2	TGTCACTCATAGTCAAAGGCGGC	GGCAATGAAGTAGCTGTCAAAAATCTACTATG
chr2	TTTCGAGTCATATTAGGCAAATTTCTCAAGTC	CAAGGCCTAAACTCACCTGCTAG
chr2	CCCTCTATCTACCTAAGGCTTATTAAGGT	GTCGCCGAACAAAGAACCCATCT
chr2	AATGTAACCAAAACAAAAATAGCACAAAGTTAT	CTCCCTCTCTTCATATCATCTTTTGTCTC

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	TAAC TACGTAGTAGTTGGTTTGCAAAAAGAT	TTGAGGTAGGTTCACTTTAGTAATGCCA
chr2	CTTTATGGAAGTTACACAAAAGGATAAGAACCA	GGGAAAGACCAAAAACCTTTTGAATTATATGTAA
chr2	CAGTG TAGTAGTGCGAGAGCATA	CTCTTTTGAGAGCCACCTTCCAAT
chr2	AAAAATTGTTGGACGCAAGTAAAGCT	GGTCAACCCTTCACATTTTCGATGTC
chr2	GATTGATGACTTAGGGTGGTTTAGGTGG	CCCTACGGCAATATGTGACTAAGATTCA
chr2	TTTTTACACCAAGTTGCCTTTGGAG	TCTGCAAGCCAATCACAATACTTAATTTTTT
chr2	AAGGCAGCCATGATGAATGGTAG	AGGAATCTATAATGGGTTCATGGTTAGGTT
chr2	TTTCTCCAAGATCTCCTCACCTTTTCT	CGTATCCTCTGGCAAATCCCATGG
chr2	GGGAAC TTTTGCATGTGGAATAAACTT	TCCAAGAAGATAGGCTTTTCAGTTTTTCTTG
chr2	AGATCTGGATGGGTGTATAGCTTAGTTG	TTGAAAGGAAGTGGAAGTATAACTTTGGTG
chr2	TCATGCATCATACTGAAATTAGCTTTCCAC	AGTCAATGTGAAACTTTTTCAAGCATGTG
chr2	AAGAATGACATTCACATTACCCGTTCTG	CAACAAATCTCGTGAGGCCTTTATTCG
chr2	GGTGGCAGAGAGAGACTTTTGTC	AGAGCATATGAATGAAGTTGGTAGGAAGA
chr2	TGCTCCTATAAGTTCTCTTCTAATACCCA	TAACGTTGGTTGCAAGATATTGACTGTAAA
chr2	GTCGTATGCAATGGTTGTATGCAAG	GGGAATATGCAAAGCCCATT TTTCCG
chr2	TGCCAAAGTCCAAATTTATGTGCTCG	TGGTGCTTCCCATACACACTCTAA
chr2	ACAGGCCATGGAGGATATCCAAC	AAATCTTTGATGGCTGATTTATTGGGTGA
chr2	CTTTGGGTTGAGACATTTGGACATCG	CATCCATTTATCCAACCAATGTAGGACTATT
chr2	AAATTTGTAGCCGGACAAAATTAGGTGG	CCCAAGACTTGATTCACCAAAGGG
chr2	GTGTTTAGTTGAACCAAACACTTTAGGTA	TCCGGAGAAAGTATGTAAAATGATTGAGGA
chr2	AATTAAATATCCAAAGAGGCACAAAAGGGC	TGCTGTATATTGATCACCCGTCTAAATGA
chr2	GAAGGAGGTTGGAATCGAGCTTC	GCCATTGATTTCTTCTGAATTATCTTCAGCC
chr2	AAAAATTGAAACAAATAGCACAAAACAAAATA	CTCGATCATTTCTAGAATCTCATAACTTGATAGCA
chr2	GTTCTTAGAATTTTTACCTTCCAACCTCCTA	TTTCCAAATCAGATAGGACTAGAAGAGGTT
chr2	CTTTACGATGTACCTTCTTCTACACGTA	AGAATGGTGAAAGGAAGATTGAAGTGAAAATC
chr2	CTTAGGGCCAAATTTGCAAATTTGCA	TCTGGTATGCTCAAGTGCCAAAATATTT
chr2	CTATTCCAGCATGTTATGTTTTTCATGCAC	GCCTTTCAGCTTCAAAGCTCAAACG
chr2	GACAAATCACTTTATGTCGAAATCAAACAGTC	TCATTTCTTAGTTAACAACCTCATGATTTGAGATT
chr2	TCTACTTTACACACAACAATCCTCCAAAA	GCACGTTTCTAATATGTAAACATGGATTGAG
chr2	GAAAACAAGGTACGCGAACAAAGATAAA	AGCGAATTGCGGAGAGAATGAAA
chr2	CAACCCATTAAAACTGGACTTGACAC	TGTACAGGGATTAGATGTGAGAAGCAT
chr2	CCATTTCCCTAGAGCATAAAGTGGGTT	GAAGAGAAAATTGGAGTGAGGATATGTTCTT

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	CCAACTTCCAAGGCAGTGACAAG	CCCAGTGTATGTCATGTATTATATCCGTAC
chr2	GCTCATCAAATTGGATTTGGGCTTT	ACCAGTCACAAATTGTAACATCGTTTCT
chr2	TTGGAGTATCACATTCCAATTTGAAGGTT	CAAAAATCCTCAAGATCTTGTAGAAACGTCA
chr2	CAAATATATATGGAGTTTGTGAGCCACAAT	GGAGTTCAAGACTTCCTTGACATAAGATTCA
chr2	ACCCATGCGAGCTTCTTGAGC	TTTGTCTTCTCTTACTCGTTTGTATACCT
chr2	TTATTTAGACCACATTTACCCACGTGAATG	TGATAACTGCTAACGTTTGATGGTAAAAGTT
chr2	GTGAAAGATTTTCGACTTCGAGATGGAA	TCTCAGTTTGTTCCTTACTGTTAGATCATCTG
chr2	TCCTTAGTTTGTGTTTGACGAAATCCAA	ATTGGACCTATTTCTTTTCTATAGCTTGAAATT
chr2	TTTTTCTTCTCACTCCCTCTCTTATCCA	ACACCAAGAGTTATGAGTACTAGTAGTATTC
chr2	GCCAAATTTAAAGGACAATTATGTGATGTGAA	GGAATCAAACCATATTGTACTTACTCCATAACTT
chr2	AGAGCTCTTAGGAATGAGAATGAGCTT	TTTCCCATTGATGAACATGACATGCT
chr2	CCTTGGGTCCCACAAGTTCTTTT	TTGCCGTTACCAGTCAGAAATC
chr2	CCCGTGGCCATAAGTGAAATAATGC	CCGTTATTACTACTATCTCCTCATTTTGCCC
chr2	GGGTGGAGGATCCGAAATAATAAAAACC	CCGATGTGGCTTCATTGGATGATT
chr2	TTTTTAATTATCTAAGCCCTCCTTCCATGTC	TCAAAAACATGGTTCCTCAATAGAGAGTA
chr2	CTGATGCTTTGAATGAACAAAAATATGGAGTC	GGCCCTTTTCTGTATTGAGATCCATGC
chr2	GAAATGAGTGTGTGTTAGATAGCCATCAA	AAATAATCACTCCTTGCGCATAATTAAACCT
chr2	TAATGCCTGCGTCCACTGTTTTT	CCAAGTTGAACATGAACCGAGATCTC
chr3	GTACAAAGAAAGAGTCACTTTTTCAACGAC	GGTTGGATAGTTTGAGTTCTTGGGTTACT
chr3	GAAGTGGCGTCTACTCATGTTGAT	GTTCATAACATCATCTGCCCATTCAATTGC
chr3	TAACCAAGCTCTGTTGAATTATGTTTCTGTC	GCAAATCAAGAGCTCTAAAATATACATGCAA
chr3	GACATGGTGTGGAGAGACTATTGAAAA	TGGGATTCTATTGCTTAGAAGATGTTGAAAT
chr3	TTTTTGAACATCAATTCCTTCAACTTAGG	AATTTTTGTCACTTAAGTTTGACTTATGTTGTAT
chr3	CCCTGTACGTATGTGGTATTCAACC	ACTTTTATCCATATGCTAATAATGAGAGTCTTTT
chr3	AAAAATTGAGAGTGGAGAATACACTTCTT	GAAAGGCCTAAATTCAAAAAGGCCTAAATTC
chr3	ATCAAATGACAAGAGAACTAATTAGCTACATGTG	TCTCCACTCTTATAATTGAAACCTTTAAGGCT
chr3	TACCATATATTCCAAGCGTCTTTAACGGT	GGTGATTTTCGCTGGTGCTATTTC
chr3	GTAAAAGGCTCGATTCTAGTTTTCCTTCG	CCACGGAGATAATTGATAGCAAGCATTC
chr3	GAAGATCGGTGTGGAATCGAGAT	AACTCCATCGTTTGTGTTTGCTAATGG
chr3	GTTTATGCATGTGTCTCGTTTGTAGTTA	CTCAAGTCTTACTTACACTCGAACTGTACC
chr3	AAAACTTGGACTTTTTACTACTCAAAGGCT	TTCTTCCTATCCTAATATCAAGTAGTCTTTCATG
chr3	AAAAACGTAAGTATTTATTTCCCAAATTCCCA	ATTACTCAAGTTGATTATGTTGGATTCTAACTTT

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	AAAGACAGAGACACGAGTTAGAATTAACCA	AGTGAAAAGGTGTGAAAGCGCTAG
chr3	AAGGCAAAAGGAAAAATACAAATCTCTAATCGA	GTTTGTGAGGAGTTCTCTCTATTAGTTTGTG
chr3	GTAGATTTTACAAGGGCGAGATCAACG	TCTAATCTGAGAAAACCGTAGCTTTGACG
chr3	ACAAAGCTAATTTGTACAAAAGGCATTGAG	GACGCCAAACGAATCAAATTTAGAGAAATAA
chr3	AGTGGATGATTGGGATCCCTACTT	ACACGTCTTCAAATCTTCTCAATGTCTTTAC
chr3	ACTTCGATACAACCTTTTAGATCGATAGAACT	GGTAGGAAAATTTGAACGGTTGAGATTTGA
chr3	GGTACTCTTTTATTACAGAAGAGGAAGCAA	ATCCCTAGACACAATGACATCTATCCAT
chr3	TCCTCACCTTGCCAAATCTTCA	GTTGGGATCCAAAACATAAAGTTGCTCG
chr3	GTGTTGTCCACTTTAGGCGGTAAG	TGAAGACGATGTTTCAGCTACTTAACCA
chr3	TTGTAAAAATAGGTCAAATTTCAATTTGGTCCAA	AACGACCAAATGAAAATTAGATCCAAAACCTTAGG
chr3	AATACAGGGTAGTTAGTAATGATCGAGACAT	CACTGCGGTGCTATAGAAGAGTGT
chr3	CACTTTAATTCAAAAGGACCCATAATCCT	GTTGTGAAGGGATTGAATACTAATGCGG
chr3	GGTTGTGTATCCACTTAATTTCTCTAAGCAA	GGCATTAGTGTATTGAATGGTGTGTTGAAAGA
chr3	CCATTTTAGATCATGGGTTTTCGCTA	TCGACAGTGCATTCTTTCCCTTACTTC
chr3	TTCTCTTCCGAGGTAATGACCTTTGG	TCTTCAGCAGCCATTAAGATTGAAAAGAA
chr3	AAACTTAACCCTTCTCAGGTCATAATTCAAA	TGAGGTATTACCCAAACACATGGAATAATTT
chr3	GTGCGAGGGCGAAGAAGAACTGG	AATTCTTTTCGGCATCTCCTCCTTC
chr3	CTCCAACCTCTAAATTTCCATCTTTCCTT	AGACAAAACTAGCCTCTAAACCAAGGT
chr3	GCAAATAACATAAAACAGAATGCCAACCG	TAACCATTGTTGCGGTCATTGCAGAG
chr3	AGAGTTAACTACTATAAGCTGTGAGGTGAAA	ACAAACACACTTGAGAAGTTAAGAGAAGAGG
chr3	AAAGGTCTACCAGAAAATACATGAAGCAC	GCAAGAACAGAGGACTCAAAGCTCT
chr3	GAACGCGATTGAACTACTGCAGC	AAGAGGGAATTATCATGAAGGTAGAAATGAAATT
chr3	AGGATTGTATTAGGTTTCCATCGTAAACAA	CATTCAAATCGACCAAATACCTTCCAAGC
chr3	ACTTTTAACTAGTAAATATGAAACACCACGGTA	ATTATTTTAGTAGTAATGTAAGGCCATGAGACTC
chr3	GTACCAAATGTCAGCAAAATCTTGGTC	CTACCTCCTTTCCAAGGAATTTCTGTTAC
chr3	TGGTTATTCAATGTAATTTTGTTCATTTCCGAA	CTACATATTCTCGAGCATTTCTGTCTTTATCTTC
chr3	GAGTCTGTTTCGAGATGCTTGACTT	TCCAAACCGACTGACTATCTTAACTACATAT
chr3	ACCGAAATCTCCAATTGAATCCCAA	TGGCATGACTTTGAAGATAGAAAGAGAAATT
chr3	TTCTAGTTCTTAGAAAACAAGAAACAGGGG	TTTTTCTTTTGAGCATATGATTGATTGATCGA
chr3	CAAAAGAAATACCAATATTAGGCTGCACTTT	GTCAAAAGCAGCTGCCAAAAGCTC
chr3	TGGTTGCTACTCCCAAGAACTCA	GTAATTAGCCAAGGCTGCTTAGTG
chr3	TGATGATGATGATGATTAACATTCATCAA	AAATGTGTCCAACGAGTGATGGAG

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	GTTGATCTAAATTCGTGGTATCCAATTAGGG	AGCGGCTGAATCTACTATCGGAC
chr3	GGGAGAGAGAATGTAAAACAATATTAGAACAT	GGGTATCGAGTTTGTAAAATCGAACATTGG
chr3	CAGCTTTACGAGTTGTCCAATCACT	AATCAATCTTTCATCACCTCAACCTTCTA
chr3	GTTTGGCTCGGTTTGAATTTCAAACCT	TGCATTCCGATTATTTACCTACAAGTACAAA
chr3	AAAGAAAGTTGTTTTCTTACACACGTGAG	CCCGCATCATATGACCTAATTTATAAATGGG
chr3	ATTTATGGTAAGTTTTACAATTAAGGGCCAAATT	GTGATCTTGGGACCAAATGTGGATATC
chr3	CCCATCATTTGGCCTCTCTGAAAT	TATGACAAAAGCTCCACCCACAATAAA
chr3	CGAGTTGAATTAGATGGAGTGGACTAT	CCAAACAAGAATTAAACAAGTCTCCATCATT
chr3	GGAAAAGACTATTAAGAGTAATGCCATGATTCT	AAAAATATATGATGATGAGTTGTAAATGGACCAA
chr3	AGAAACCGAAGTCCAAAGAAACACTTG	TGAAACGTTACAATAGGAGTCAAACATCATT
chr3	ACAAAAATGTGATAAACCTTTTATTGGTGCT	CAATATTGTAGGATGGAGGATTGAACCTCC
chr3	TGTTATAAGTTGAGGAGATCCCAACTCTT	TTCCGTGAGGATAATCTAAGTTTAGTTGTGT
chr3	AGAATTAATGTAACCAACCTGAATCCCAG	ATTTGTAGGCTTGTTCAGGACTTG
chr3	GGCAAAATCTATGCAGCTGGTATCT	TACCAAAGAGGGCCTAAACTTGCA
chr3	TTTGGAAGGTTGGGCTTGGATTAA	GAACCGATTGCTTAAACCCATGTTAGC
chr3	ACCATGCTAGTAGCAACTTTTATCTCCT	TGTAAACTGTCAAGAAAGTTGCTATATGGTA
chr3	CCTTAAAATCTTTAGCTCATTGATTGCACT	TTGAGAAGGTTTAAAGAAAGAAATCTAAGAGAAA
chr4	CTCAATCTCTTCTCATTTTCATTGTTGTTGTT	TGGAGATATGAGAGAAATTTGAAGCACAAAA
chr4	GGCTTTGTGGGTATATTTTCAGAGTAAACA	CATCTCAGTTTACTACTATGTGCAATGCA
chr4	AGGATCATGCTTCGAATGTCTGACT	AGATTGATGGGCTAAAATCAGTGGTG
chr4	AATTGTATGGGTTGAGTTCACCCAAA	AATACACTTCATGAAAGACTGACTCATGTTA
chr4	GCCAACGGGTGAAAGTTAATTGTA	GTGACGACAATAGATTCCGAGTGTG
chr4	CAAATAACAAGCACTTCACCTTCCAT	CAAGTTTCGCAATCTTATTTCCAAGCAT
chr4	ATGGGAGGGCCATATGAGTATCTC	AGAGGACCTTGTAATTTGTTTTCGATGTG
chr4	TATAAATGTGGCAAGTAGGAGTGAGGAAT	AAGCCTTTAGCACAACAATGAACCTTC
chr4	GAAACAATCACAATAAACAATAGTACTCGCCG	GCTTGGAGGAAGACGAGAGTTATGT
chr4	ATGCGATCTAAGTACTGTGCTAAGTCT	CATTTGCTTAGGCTAACAAAGGGAAAATTAT
chr4	TCAATCTTAGAGGTCGAAAGTTGACCA	ATCGTATTGAGATATCAAGTTCTATATAGTGGAG
chr4	CTTGGAGAGCGTGCCAAAAAA	GTGCACGGACAAAGACCGAATGACA
chr4	TACTTATTAGGGAAAAATGCACTTTTCGGTC	ATTCAGGATTTATATTGTGTCCCTCCAATT
chr4	CCCTAAAAAGCCTATTGTTCTTTACGC	GGGCTACTGTAGAACTTGAATCAATGTTTAG
chr4	ATTAGTGCTCCAATCTTCTGGGATTCA	GCCCAATCTTTAAGCACAAAAGCACC

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	TCCTCATGACAATGCTGATCTTTTCAA	AAGCATAACAAGAAAGTAACAAACCAGT
chr4	AAAGTCACCATCGACATTCTTCTTGAT	TCAACATGTACATTGTTGGAAGGAGTA
chr4	GCTACTTAAGTGTTATTTTGTTCACGCC	GGAAAATTAACAAAACCTCAAAATCTTACCCAAA
chr4	GACTGTAAGATGTGAGATTTATGTTAAAGCGA	AAAAAGGAAAATCAATGCATGGAGATCT
chr4	GGGTTGACTTTCTAGAAAAACAATGGAG	CTTTCACCCTAACCAAAGAAAAGCA
chr4	TTGAGAGAATGTTAAATGTAGCTTTCTGGTT	CATCATCTTCTAGTTGTGCTAGTGTCTACA
chr4	TCTTCACCTACCCTTGATTTAGGCTT	CATATGAATGATGTGAACCTCCAACAACATTC
chr4	GGGAACATATTTCTTTTGTGGTTGATAGGG	TTTCACTTGTGCTTGTCCACCATTC
chr4	ATTGAGCTACATGAATGAACCAACCTA	TGAGTTGCTTGGTGAGATTGAAAATTGT
chr4	TTTTTGTGCGAAATCATGTATGCTTTGA	CTAATGTGCAACAAATTCATAATTTGCACCA
chr4	CCACCACCACTTATCCAACCTC	CCTCCCTCTTCTAACCAAGAACATGC
chr4	AGTTGCAAAATTTCTCAAAATGCAGTTGC	GTTTCTAATGTGCGATTGACTGAGACTGTATT
chr4	AAAAAGCTAAGGCGATCAAGTGATAACT	AGATAGTTCATTTCAAGTGATCGAATGTTGTA
chr4	AATCAAGTTGAGCAGCACCCTAG	GGGCAAAAGTGATCAAAAGCTTCCA
chr4	TTAGTTCAACAATTGTAGAGGTGAAAGATTGAA	AGCTCATGAGCTACAAAGTTGCAT
chr4	GGCGCATCAAGCTATCTCTCTTC	GTTCAAGAAGCTTCAAGGCAACTTG
chr4	CGGCATTGTCAGGACAAGCTTTAT	CATGCCTCCTCCTTATAGTACATTCTGA
chr4	AACCTCTACACTTTCTATGAGACACCTT	TGACTGAGGTTAGAAAGAAAAGCTATGATGCG
chr4	GTGTGACCGAACACGACAACGAC	AACTCATCACCGACACAAAAGCTGAC
chr4	GGCCCATTCCTCTACAGAGTC	GGAATGACCCATCAAGTTTGTAGCTG
chr4	GTTGAGTTATGGGCATTGTTGGTGTA	TGTTGGTGGAGTTGAATTGGTTACTTTAAT
chr4	GAGGCCCTAACACCATGAACAAG	ATTAGCCTAGTAGATGCATAACGCATCA
chr4	GAGGTGCTAAATGGTTTACATTTTGAGAAG	TGTGGGTATCAATCAATAGGTCTTTTGTGA
chr4	AAGGAAAAGAAAGGAAGAAAAGCTAAAAGTACA	TATGCCTTAATAATTTCTTACATTTGTTGGTCCTA
chr4	CAGCATTAGCAACGTTTGTGAGCAT	TGTAAAGTTGGGTTTGGCCATCAC
chr4	GATAGCATTTTCTGGACATGTTTGAAAAGAA	GAAACCGTGGGCTACTCACTTAC
chr4	CCCAAAAATCAATAACGAAAGAACAGCAA	GAGAGAATCACGAAGATAAGTATCGAGTGG
chr4	ACACTCCAACTCCAAACTTCAGAA	TTTGGTAATCTTGAAGTTTTCTTTCTTCTTCC
chr4	GCCATTGTAGGATTTGGTGCAATG	TCACATGATTAGCTATGATATGCAAAACCAT
chr4	GTGAAGGCAAACTATAATGAGAAGCATGT	GACTTGGAGGAAATGAGTTCAATCATAGTG
chr4	GCTAAATTGGAGCATATCCATGAGAAAATTC	TCTCCAATGGAATCAAAATGGGTTTATCTA
chr4	TTTTTCTCCACTCAATGAAAGCTGG	ATGTTTCAGCCCAAACAAAATATCTGAAGG

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	CCTCCTTTCTCCCTCCTTCTCTG	AAAAATCGTTCACTTAACCCATTGAGAAGT
chr5	AAATTCCCAAAAAGAGGCAACTCTAGAT	TGGAGTTTTGATTCTGAATTCCTGCAT
chr5	CTCTCGTTCTTGTGTGGCTAGCATA	CTTCGGTGTGGAATGATACCACAG
chr5	ACAGATTACTGATTTTCCATCACTTTCTCGA	TGCCGATATTCATGGATGAAGATGAAGA
chr5	GGAAATAATTCGACTGCAATAGTGTTCCT	AGCTTTTGGAGATCAACCAATGGAG
chr5	CACATTTGGATGAGCTAGAAAAGAAGAAAAA	AATAGGCGATTGCTCGATGGATAGC
chr5	TGCTGATCCCTACGTTCAAAAAC	TATGTGTGTGTGTGAAATTCGGGTT
chr5	ATTTTATTTGTTGAGCATGACACAAGTTCAAC	TGGAACCTACCAAAGAATTAAAGATACAGTA
chr5	TCCCATCCGTTTCATTTAATTGTTTATAGTACAA	TGTTAAGTTGGTGGCTAGAAAAGATGAAAA
chr5	CAAAATTTGTCAGGAGTAAAGGGAGGA	ACCTTTGTTTTTCTTTTTCTACTTCTCGAATATC
chr5	TGATATAAGATTTGAAGGTTTTGTGGCTCTG	CAAGAACAATGAGTGAGTGATAAGCACTAA
chr5	CATCTTGTCCACAGTTTACTCAGTCAA	CAACAACATAACCAAGAGTGTTAAAGTTCCCT
chr5	ACTAATAAAAAATGAACCATCCAATGCCCTAA	TTCACGATAATGCTGTTTGATCATCAATTTA
chr5	CATTTAAAAATCTCATTCAGCATGCACTA	GGCTTTGTGTGTGCATTAGGTAGAATAC
chr5	AAGAGCCTTGTTTGAAATGACTTTTCAAG	CATGCAATTTTTCGTATTTCTAAGCACCAG
chr5	CTCGAGAGCTTGGGCAAAAATGC	CTACAACCTCTTTATACAGGCTACAAAGGA
chr5	CTTTGGTGCATCTCGGGCTATA	TTAAATTCGTCTTTACAGCATCCTAAACAG
chr5	TTTTTAGAAACACAATCAGCCAAACAAT	ACATATTACAATATAATGCTGGCAAAACATACA
chr5	AGATGAGTCAATTATGTCCAACACAATTTA	GGGTAAAAATTTGGTTGTGAAGCAAAAATCA
chr5	GGGTACTTACACTGATTACGCAATACTT	AAAAACCAAGCCACACAAAAGTTTTCA
chr5	ATTAAAGTTATGCAAGAATAAAGCAATTGGATTT	ACAATTGCGATTCCAACCTGATCTTAAAATTTAT
chr5	GTTTAAGCGGTAGCGATTGTTTACA	TGCCCTAAAATTTGTTGTTTGCCTTG
chr5	GGTGTGACAAAAAGAGCCCAATT	GGCCTTCAAAAGTCTTTCTTTCCCTT
chr5	TCGAGAACACATAATGAGAGAGATCATATCAT	TTTACACTAACCAACATAAGATCCTTTCAACAT
chr5	CCATACACAGTTTCTTACGTGCCTTT	GGAACATGTTGCAATGACAGTTAATGAAGA
chr5	CCGCACGTAGATCTGTTTCCAAA	ACTAAACAAGTTCTGCAAGGTGAACTC
chr5	ATGGACAATAGAGCCTTATAATTCATCAAAA	CTAAGATCAGTTCTTAAGTCCTATTTTTCGTTGT
chr5	TGAAGAAATTGGGTAAGAAACGAGAACAA	TCCAATTTATGGGTTTAAACCATGGTT
chr5	GTTGTTATCTCAATTGTCTCATCCCTATGTA	AGTAAGGTCTGCTATCTTCACGTCTTG
chr5	AAATATGCCAAGAAGCCTCTTAAGTAGG	TCTTTCTCTTCTTTTCTTTAACTCCTTCCACT
chr5	GGGCTCATTTTACTTTTGAATTTGGA	GAGATCTCTTTCAAATATATAGAGCTGCAAA
chr5	CGCACGTGACAAGTTTGAGATGA	TGTCTGTTCAATGTTAGTTTTCGTCCAATC

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	GAAAGGGAAATTGACCCATTGAGCT	AAATTAGAAGTGATAATTGATTTCGATTTCTCTCGA
chr5	TGAAATTAGATATGTTCTACAAGCGGGATTT	CAGCAGGTTCTTGTTTTCTTTCTGATTTCT
chr5	ATGATGGGAGAGTAGCCAAAACAGC	CCATTTCAATCCTTATTGGTAATGAAACTATTTT
chr5	GATGGGAGAGAATCAGTTGATAAGGTGT	ACATAAATATCCTCCTTGTTCCTAGGTCTT
chr5	TGAAAAAGTGCATAATCGCATTTTACAATTT	GAATCTTTGAGAATTGGACTAAGAACCTCTA
chr5	CAATATCAATAGCAAGTGGAATAAAAACTCGAAC	TTTTGGCCCATTCAACTTCTTTAAGTTTTG
chr5	GACAACCCATGCCAGATTAATTAATAGTTCC	TGCAAATCCAGCATCATTTTTTG
chr5	ATTTGAACTGGGCGTACTATGATAAAAAATTA	GCTTATACCCTTCAAATCGACGTTGG
chr5	GACTACGAACTTGTGGACCATGTC	GACAAAAATGGAGTTGTGTAATTTAGACCAA
chr5	AAGGAAGAAGTGGAGGTTTATAGAGCC	CTAATCCAATCCAACCCATTTACACCC
chr5	AGTTCACAAATGAGGTGAGTGTTAAGAAT	CTTGAGAAACAGAAGTATATCTCCTGGATA
chr5	ATATGCCCTTTGAAATTTAAGTGATTTTTGGTC	AATGTGTGTTGATGTAATGAAAGACTGTAATGA
chr5	GGACCAACTTGCAAGCATTTGAAC	AGCATCTAACCAAGGCCATATCTTCC
chr5	GATCGAATTAGTCGGTTTCCTCAGAG	ACATTAAAAAGAATGCATGTCCATTGCTTTT
chr5	AGGTTATAGGTTGTACAATTGTGTCTTCA	GATAACTGAGGTAAGGTGACTGCAAATT
chr5	CAAATCTAGAATTGAATTTGTCCAACCGATG	CAAATTGAGTTGTTCTTACTTAGCTTTTCGAG
chr5	CTTTGATTCAACTCTAAGCATAAGCACAA	TGTTGAATTGATTTTGAGTGATTCTATGTTTCGA
chr5	GGGTAGTACATTTTGTGTTTGCATGAGAG	ACACACTTATACAACAATCAACTATGAAGAGGA
chr5	AGATCGACGAGATAATTTAATCAAAAGGCTC	AACTACTGACAATAGGTCAATTTGTGTTAAAT
chr5	GCTTCAAAGCTATCAATGTGTAGAAATCCT	ACTTTCAAAGTAGCAAAATTAACCTAGACTTTT
chr5	TTTCTAATGCATCCATTCTATGCTTCACTA	CGTGTAGGGACGTCTCTTTCATCA
chr5	TTTTTCTTGCCAAAACCATAGTCGA	ATGTAGGGACACATGCTCAACCC
chr5	GTTTGGAGATACTTTCAGCGTTGTTTC	ACGATAACAATAAGACAGAACAACTACCAAA
chr5	TGATGCAGAGATCGTAGGAAAACCTGA	AAAAGCTTGATACCAGAAATCATATTGTTGT
chr5	AAGTTTTTAACAACCTTGACATGGTAGAGGAA	GACTTTGTTGCCGCTGAGATTTTAA
chr5	CATTCACAAGAGGCCCTATTTTGGTTAAAT	TGCTTTGTTGATAAGGTGTCAAGTTATAGTT
chr5	GAGGTTCAATCTCCAACCTCCACAG	TGGACTTTGAACTCCTCTCTAGTTCCTC
chr5	GTGCCAATGCTCTGGACATTAATTT	CAGCTATCTGTTCCAAACAACAAAAATAGAC
chr5	TCCGTTCAAAATCTTTGGAAGAAGGTC	TTTTTGTGAAGTCTTTGCCCTTATATCTTCC
chr5	CTAGGCATGACCTTGCCATGATC	AAAATTTTCAGGATTTCTTTCCAGCCAAATC
chr5	TTTCGTTTTATCTGGAGAGTTTGATGACTT	CAGAAGGCATTGAAATGGATAATTAAACCAT
chr5	CGTGGAACCTATTCAAAAGGTCCAAA	AGGCAAGAATTTTGTAATTTATCATCCAAAAAGA

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	AACCCACTCGCCCTGAACC	GCCAGGTTTGTGGAGAGCTCC
chr5	TATTTCAAATCCTGCCATGTCCCTTG	TGGGATGACCCACCTTACAAAATCA
chr5	AATTGTCCATTAATTTTGAGAATTTGTGCTA	ACATGGCAACCCATATGATAGCGA
chr5	ACCAAATTAGAGTCATCCAAGAGTTGAGT	TGAGCCAAATTCATTCATGCTCAA
chr5	AAGTAAACCAACCATTCGATACGAA	GGGATTGGATTGTTTCCTTTCTGCTAC
chr5	CAGCCGTCCATCTACACTACAAA	ACGGAGACAAAGGCAGTTTGAAAG
chr5	GAGAACAACAAATGTGGGATGCAAA	TTACTTTGACCATGCTTGTCAAAATTTTCAA
chr5	AAATGGGTGGTGGCCATTCATTATAA	TAGACCAAGGTCGTATAATCAACATTTGACA
chr5	AGCATGTTTAGTTATGACCTCTTATTATGCTT	GGCACAATCTTAATATCATCGCATCTCAA
chr5	CCGCCTACTTAGTCCTTTCTTAACTG	CAGCTCAAGGGAAACAAGTCCTG
chr5	AGCACTTCCTAGTTTTGAAAAACCATTTGG	ACGTCAGCTAATGTTCTTTTGAGAATAGAG
chr6	AAAATATAGGAGATATGATGTGGAGCAACAC	GGGTGTTTGGAACCTTGTTAGGTTTTTTT
chr6	TACAAATACAACCGAAGGACTTTGTAAAGTA	ACCCAGAAATCAATTGCTGTAAAATGTCT
chr6	ACTCAAGTCTAGTGACCAAATCCAT	CTCTTACACTTCATTTAAGAGATGGAGTGAG
chr6	AACCTCATACAGATACTGATGTGGAGAT	TCATCTTCCGCAAGAAAGATCCTACA
chr6	TATAAATAGGAGAAGGATTCACCCAAGGAAG	GTTATCGACATGGTTGATGCCAAATTTTAG
chr6	TGAGTTCTAGGCATGCAAATTCATGTT	GTAATCGATTTGGTTCAACTTTGATGTGAAC
chr6	TCAAAATTATTTAGACTTTTGTCAATTTGGGTTA	CAAATGGAAGTGGGAGGTTGAAACC
chr6	ACAAAATAAACCTGAGCGTATCTAACTG	CTCACAACCCATAGGCAACCAGACAA
chr6	ATGGGAACCTATTAAATACAAAAATTATGGACTG	TCAGAATTTGAACCTCAAATCTTTTAGTTGAGAG
chr6	CCCAATAGGACCAAACCTGATCAA	CGAACTAGCTGTATGCTTATCCTTCACT
chr6	AAGAATACTTCAAATCTCCCAAAATGCAGG	GCTTCAACAAGTACCCAACCAAATCTCT
chr6	CCCTCCACCAACATGCTATTCCT	CACCAAAGGGAGAAAACATATAAATGTGGA
chr6	TAAGTACAATCCAAGCCATTTAAACCTT	GTGGAGAGTTGAAAGTTTCTTCTTCATTATTTA
chr6	TCAATGGTGACCTTTTTTCAATCTTTGT	TGAGTAACATTGACACATTTCCACCAATTAA
chr6	AGAGAATCTTTACATCTCCATTATTTCTTCTTA	CCAATGTTGATCTTATTGAGCCTATACAAATCAA
chr6	GAGAGTTACGTCCACAACCGTAC	GCAGTGGAAGAGATCATGACGAC
chr6	ATAGAAGATCTCGTCTTTCTTCTTCCTCAT	TGTGATTAGATGTAAGAATCAAATGTCGTT
chr6	TCCATAAGAGCACTGTTCAATCAAACAA	GGTAGCTTTTCATTCAAGAAGTGACACC
chr6	CCATTTTTCTGCTCCGAAATCTTCTCC	AGGTTTCTAACCTTTCACTTTTGTGTCTAAT
chr6	AGGGAAAACCAACCTCATTTCTTGTT	AACTCAACCCAATGGGTTGGATTG
chr6	CATTGTTTGCTATATTACAACCTGTCCAATTGAT	TCGAGACAAAGACTTCTGATATGACTCTAAAT

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	AATGGAAACAATCCTAAGTAGAAGTATCAAACAA	AAGAATGTGCCAGAATATAGTTGACAGTTT
chr6	CCATCTTCTCCTACAAGCCCAAT	TTAGTCGACCAAAATCTATCTTGGAACAT
chr6	GAAGTTTTAGTCTTCCAAATCTCCAATCTT	AAACAATTAGTCCCAAGCCCATGTAA
chr6	AATGAAAAAGACGAGAATCAAATCAACAGGA	CCCACCTTAGCCATTCCTCAACAAA
chr6	CCTATGCTAAGGGAAGAAAGAAAGGGC	GAGCATTTAGCAAGAGCAAAAGTGTAAT
chr6	AGAAGTTTGACTTTGAACCTATACATGACAA	GTGAACGAAATTTGGGACCCAAAC
chr6	AAATGCTACCAAACGAACAATTTTACATTCTA	TAGACGCGTAAATGTTGTGTAGTACTCG
chr6	CAATTAAAAGACATTAATACACATGAGGACCACA	CTTAAGAGATACTAGCCCAACATTACCATAATTT
chr6	GTGGCCAGTGGAGTTCAA	ACCACTCATACAATAAAAGTTAGTATACTTGCT
chr6	TGATGACACAATATTGTTGGAACCAACA	GGAATGAGGTTTGATGATTTGAGGAAGAG
chr6	ATGCAGTATTAGGATCGTACATCAACAGC	TCTCTACAGACCCTTTATCTTAACCAGAAAT
chr6	GCACGTTTCTCGGTACTTAGGAG	GAAGGCAAGCTCAATGTCCTCTC
chr6	TTTTTCTTGAAGTGCAGAGAGAAAAGGA	CGTCGTTGTTGATTCTTCCGTTGG
chr6	CCTCACTTTCACCTCTCGATACAATGTT	GGCAGACGGCAAGTTAGGTTG
chr6	AGTTTCAACATTGTATACAATAGGCCTCTTA	ACTTGTCAAGTACACTTTGGAGCAATAC
chr6	GAATTTGATGACGAAGGAAAAGTTATTGGTG	GGGCTCCACTTACTGATAGAATCATAGAATG
chr6	ACAGAAGATTAGCATGAAGTTAAGGGAAAAA	AAAAATGGTTGAAAAACCTGAGCCAAC
chr6	CATCAATACTCTTGCAATCATGAAGCTT	TAAGAGTGGGATAAGTGAGCGAGAAA
chr6	ATTCTCTAGCTTGAACGTTTCTACTTGAGT	TCTATATGCTTCACTCACGGTAAGTTTGA
chr6	GACATTGACGCCACTGCTTTTTTG	CAAGGCATAAAAGAGTATGGTTTATTGCATA
chr6	TCTTTGTTAAATCAGCCTCATTGATGAATGA	TTTTTGGACTAGTGTGCAACAAATTCAG
chr6	TCAGGTGAGACCTGGAACCTCTT	ACCTTAAGAATCATTTGTCTTTTGAAGTGCT
chr6	CCATTTGTTCAATTTATAGGTCGGCCATAC	TTCAACGTAGGTAGTTTGGTATGATCAAGA
chr6	ATGGGTAACTTTGTCATATTCATCCACAT	AACTTCTCATCAACATTCATGCAATGC
chr6	CTCGTCTGTTTCTTTGATTCTCCTCTT	ACTTTTCCATCAATGGAGAAGATTAC
chr6	AAAGGAAAAACAAAATCTACTTTGCGTCAT	AGAAAATAGTTGCTTTAAATCACAACCGTTC
chr6	CGGAGATCTTCCTTCCACTTTTCTA	CCAGATCCTAAATCCACCCAAAACTCC
chr6	CGAGGTCCAGACAACGATGAAGG	GGGAAAAGGATATTTCTTTTCGCGAGTAA
chr6	AGTACGATAATTGTGGAGGATGAGAATTGA	GTTGATGACATATTTTGATTGTTGGCAAGAA
chr6	GACATAAAGATTACACTCACGCCAAATA	AAATTTGGCCCTATGTTCAATTTTATAGGCC
chr6	GTTGAATTAAAACACTATCCTCTTTTCTAACAA	CTCTGCCATCTTGATTCTGTTTCGT
chr6	TTTTTCTTTGTTTGAGGTCACAAATTTACAT	TAGAAAAGTTGCATCATCCACCCATG

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	TCCCACTATCATTTGATGCAAATCTTCAC	GCTCCTCACCTGGGTATGTTTCC
chr6	AATTAGCATCTCATTAGTCATTATCCAAACCAT	CTCAAAAGAATCTCAGATATTGAACGATTGACG
chr6	TATGTGGTTAAAAATGGTCGATAATCGTCTA	TGTAGATGTTGATGGAGATATTGAGATCCAG
chr6	CGGACACCATCTAGACGTCAGAT	AAACCAAACAGTGGCTGAAACAGA
chr6	CGAAACCATTCGCTATTCTTGCT	TATAGGCTTCAACTTTAAACAAGGGCTATCA
chr6	TTTTACTGGTTTCCTAACGTTTTGTGCC	GGGTGGCCTCCAATCATACTCTAC
chr6	TGCTTCTTTTTTCGTTTAAACAAGTTTAGTTCTTA	CCTACCATCATGGATATTAAATTGTGTTGAGTAT
chr7	TGTAGTACTCCTTTTGTGTGTCTACTAGGG	TTGGTTTAATGAAGAATGATGTCAGGTCTA
chr7	CAAAAACCATGTCATTAATCGGTTAAAAACGA	CTCGCCTTGGACATTCCACAT
chr7	GAATTCTCATGTGGTTATCCTTGAAAGTGA	TAGCTTGACCCTTAATAAAAGATTCCAAATGATA
chr7	TGATTGCTATATTTGTAAGTGCACCTCATT	CATTTCAAACTACTCGTGGACCAAAAATTC
chr7	TCTGAGGTTCTATTTCAAAACCAATTGTCTA	TTACACGCAAGCGTTACCCAAAATA
chr7	GGCATTTCCAAAGCCAATCCTTT	GAGTTTAGCTCATTTTGGCATCTTTAATGAT
chr7	CAAAGCTCTTCAAATCTTGTCTTCCAT	GAAGAAATCTCTCGTTTTTCATGGTGAAAA
chr7	GCTTTGTTAGGACTCCGAATTGATCTG	CAGAAGATTTGAAATCCACACTTACACAAAT
chr7	AAAAAGAACACCCTAAGACAAAAATAGCCC	CAATTTGCCACACGAGATGCTTAAG
chr7	ACTCTGGGCTTCAGTAATATTTGTCTCC	AATGATGAATTTATAGGACAAATGATGACCTAGA
chr7	TAAGGGTTAGGTGAATGCTAGCTTAAAAGT	ACTTAAGACTGTTTTCAATTCAGTAGAGCTA
chr7	AAGTTAGTAGCGATTAAGAACCTGTGATTCC	GCGGAGCAGAGGAAATCAAATTGAT
chr7	GTTGAGATGGGTTAGGAAGAATATGAACCC	GGAGAATATCTCTCCATCACTATGATCAGAT
chr7	GATACAACTTGAAAGCGTAGGGTCTAA	GCGAACTTGTTCAAAATATAGAACTCGAGAA
chr7	AGGGAAGAATTAGATGGGTTTTTCCACG	CATTTATCAGCACATAAGTTTCGAAAACCAA
chr7	CATTCCAAACGCCTCGTTGAAAT	AAAGAATCCCTCGCTTCAAATTGCA
chr7	ATTGAACATCTCACAGTATCTGCAATTTTG	AGTATATCAAGGAAGAACAAGTTAAGCACA
chr7	GTTATTGAGTGTTTGATTGTAGCAACCAA	ACATTTGCAGAGGTAGCAAGAAAAGAG
chr7	TCGTGTTTAAGAGAGAGAACAATAGAGGAA	ATGAAAGTGTTCTAATCCAATGATGGAAC
chr7	GCCATCTAAGAATTTGTAACCATCCAAGAA	TTCACACTTGTCCTATCAAATGTAATTTCAA
chr7	ACTGAGAAACCATAACATTTCCCAAAATTT	ACTTTCTGTGGGTGTTATATCTTCAAACAA
chr7	GGATAATGCCTCATCAGTCCCTTG	ATGGATTAGAGGGATTGGATTTTCGTGA
chr7	CAATTTTGAATGGCACCAAAAGTGAAAA	TTTAGTCCGTGGGTCAGCATACC
chr7	AATGTCAACTAAAGAAATTTCAACGATACATTA	TGGTTGAGAAAATTAATCTATTGACTTGTGGAC
chr7	TTTTTGGAATGTGAGCAACCTCTTTTTC	TGATAAATTGGTGCTCAAAGGAAATAGGAA

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr7	CAAGTAAGCCTTCTCTTAAATGATTACCT	TTTGCTTAACTATTGTTGGTTCCTCGTAT
chr7	GTGACGGATACTCCAAATAAAGTTTGACC	CTTCCCTTCCTCCTTTGATGGAGC
chr7	TCAGATACAGCAACACCCACTTTTC	TGCTCTCAACAAGAATTAAAGGCACTAAC
chr7	TTCTTTCTTCTTCTTCAACTTCTTCATTCTACAA	AATTCGGTGAGGTAGACAAACTGGA
chr7	GGAAAAGGTGAGAGAAGTTCAAAAGCA	TCTGCTAATCAAAAAGTTCCCATTTTGTGTG
chr7	AAGGAAAAGAAGCAAAATTGGGTAGCT	GCATGGAATGACCTAATTCGGTAAAAATATCC
chr7	GGAACATTAGAACCACCCACGTATC	AACGTCAAGCAAAACACTTTTTCAAAAACA
chr7	ACAAAGGACTTGATTGTTTGTTCAAACAT	CAATTATTTGAGTCGAAGTGTTACAACACA
chr7	TGAAGTAAAATAGGAACAAAACGATTGGGAT	CCCAAGAACCGAAATCTGCATGG
chr7	ATTCCTCAATTTCTTAAAGAATTCATCCCTT	GTGTTGAAGACCAAAACAGATAGCTTTTAGG
chr7	CTTTTTAAACTTCAAAAGCTTCCATCACCTT	TGTGAAAACACATCTTTTGCAACATTAGT
chr7	AGGCAAACATGAAAATTCAGAAACAAAGTC	GAGTCTTATAGGGTAGGACCCACTTG
chr7	CCTCGTGCTTGCCCAATACAA	CCTTGAAATAGCTCCATCTCTATGAAATCTC
chr7	TTCTCACTTAAAATGTAAAATGTGACTACCTA	AGGAATGGATGACGGAGAAACAAGA
chr7	CAAACCTACCCTAACTAATATCTTCTTTGGGTA	GGGTGAATGATGAAACTATTAACAAAATCTTTAA
chr7	TAGAGATTATTGACCCAACCTAGAACAGGAG	GAAGGGTTCACCCACCATTTGTTAATAA
chr7	GTTGATTGCCCTACTGACGAGAT	GTTGAGACTTCTAAAAAGCTTGATGAGATGG
chr7	TTCTATCCCAGAAATTTATTCAGAGCAC	AGGTTCAAGTTTTCACTTGTTAACCTAAAAA
chr7	AACTTTAGTTGGTTAGCCAAAGGTCAA	GAAGCTCCTGGAATCATGAGGAAG
chr7	GAAAATGGGATAGAGTTTCGTCATCCTT	TGAAGAAAACAAGCACTCCCAAATACTT
chr7	CAATGTGGATGAGTAAGTACATCCGAA	CCTTGACAAGTTGCTGGACACTTATC
chr7	CCAATTGACGTATGCTCAGTTTGGC	CCCTTTCTATGGCTTAGGGCAG
chr7	TGAACCAAAACATAGCTCAATTTTCATCAACA	CTTAGCCCATAATCAACATCATGGACAT
chr7	GTGTTTTCCCTCTTGCTCTCTTTCTC	GAAAACACGCAATCCTGTTCTTCAT
chr7	GACTTTGTGAAAAATATGGACAAAAGTGTCAA	AAATTGTAAGCTTGCGAAACAACTTATTCTA
chr7	GAAACAAAGATGGACGCTCCTGTATAA	TTGATAGTGAGTACCCACTCTCTC
chr7	AATATCATCTACCATATTGCAGAAGTTACCTA	ACTGTGGATTCTTGACCTTTATGTGGG
chr7	TGCCACATAACCCATTTTGAATTTTGA	GGGCAAATGACATGACTTTTCTATTCAAACA
chr7	ACGGTTAAATTTACAAATTCAATCACGAGTTTTT	AGTCATAAAAGTACTATTTATTGCAATTACCCAA
chr7	GTTCTTCTCTCTTCAAATGACCTAGACAT	CATGAGTCAAGAAGAGAGATGAAAATAGGAA
chr7	CGCATCCAAATGCAGAGCTTCTAG	CCTTTTACTTCTACTTTGGATTTGTCTCCAA
chr7	TCCTCTAATTAACCTCAAGAGAAAGAGGATA	GTTGGACTAAATACCTATTTTGGGATAGCAT

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr7	CCTAGTGGAAGAACTTCGCTAATAAAGAG	ATTTGCTTCTTGCATTTGTTTAGGTTTAC
chr7	TCCAATTACATCTTTGTGCCAAAGTATAGTG	GAGCTAAGATTTTGTGGGCTTTTCTTT
chr7	ATTTTGTTTATGTTGTCTAAAAGAGTGAGGAGC	GTAATTAGTGCAGTGAAGAAAAGTAAACA
chr7	TTAGATGAAATCGATTGTTGTGCCCTATA	TTTGGTTGTATTCGTGAGGGCTAAC
chr7	ACCTGTAGTCTATGCAATAAATTAACATCATGA	GTGTAACATTTTGAAACCTAAAAACCATATGAAA
chr7	ATCATATTAAAACACCACAATTTTGGCCTTG	AAAAGGTTAAGCTATCAAAGTAAACACCA
chr7	CCTTTATCTCAATGGTTGGTTGCTAAAGC	CATAGAATGCAATCTCAGCAGCAATAAAAAA
chr7	GCATCACTAGGTCGTCGAAACAC	CTACTCTTAAAATTTGTGTTGCATACCGAAT
chr7	TCATACTCAAATCTTCACCCACCTTTTC	GCGTGCGAAGTTCATATGTTGTGA
chr7	AGGTGGAATGGAATCTCTCCCTAC	CCATCTCCCACCACAACTCAAC
chr7	GCACTTTCATTTAATTTCTCAAGGTCGA	ATCAATTTGGTTGTCATGGTCATGTAAATAACA
chr7	GTAGACATTAGGCCATGGTTGGAG	GGTTTGAGTCTTTAAGATGAAACCCTATGTT
chr7	CAAGAAAATCTCCACGAGCTAAATGCC	ACTCCAACAAGAGTATAATGTGGTTTCATTA
chr7	CTCTTGTGTGTGGTGAAAGTGAGA	TAAATAGGACACACCCACCTCTAAAAATGA
chr7	GTGTTTGCATTTTGTGTTGAATGCGAG	AACCATTACAGAGTTTGAGCTTAGTT
chr7	TGACTTGGATAGATTTTGATCCTTTTGGTA	TTCATTGTTTTGAAGCTGGTAGTTGTTCT
chr8	AAGAGAAGCTTGATAATTTTCACTTTATGGTATC	ATGTTTGAAATTAAAGATGTGTTTTTGTGGTGT
chr8	GAGGTCTTTTCGGGATATCAATGGTA	GTACAAATTTTCTCAGCTTTTTCGGGAAA
chr8	GCAGCTAAAAGAAGACAATAAGTTCTTTCAA	GGAGGAAAAATGCTGCAAAAAGATCGT
chr8	ATTGCTACTAAAAGATCATGGATTTGAATTTTT	TTGTTGAACTCAACTAATGATCAAGAGAGTTC
chr8	ACAAGAGGCATGATGCGTCTTTG	CATTTAAGGAAGAGACATGGATGCATCC
chr8	CCCCTCATGAATGCATCCAAAAT	TGAGACTATTAACTTGTCCTGTTTTCTCT
chr8	ACAATTCGGATTACATTCACCATTTTA	GATATGGACTGGAGTTCTCTTGATTTACTA
chr8	CTTTCCTTCTTAATTTGGCCCTTTAGATCT	CCCAACAGCAAAATCAAGATATCAACACA
chr8	TGGCTGTATGATTGTGGGCTTTG	CCATTTAATTCCTTAACTTCAGCCCATAG
chr8	ATACACCCAAGTCCTTGTCATGAGG	GTTGCTGGAAGCTGTTGCTATTAAAGA
chr8	GAAATTTCCAAATGGGCCTCTCTTTC	CATGGATCATCGTTTCTGTAGTCTGTT
chr8	GTAGTCTAGTTTCCTATAAAATCCCACCAAC	GGACGACAAAAGTATCACTAGAGATCA
chr8	ATTCAATTTTACTCTCCATATTTGGCTTCCTT	TTGCAGCTTCAAGATGGAAGGATT
chr8	TCTTATACTGACTTTGGCATCAAAGTCCG	GGTCACTTGTTCGCTGGATCTAGA
chr8	CATGATTGATTGCATTTCAATTCATTTTCAT	ATGTAGGAGTTCATAAGAAGGTGAGCTAT
chr8	CCCAAGTTGTCAATCTTGAAGGTCT	TTTTTCACGGTTCTCCATTTTACATATCCA

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	CCAAACTAAGCACCACACTGGAAG	TCAAGAAGATTCTAACTCTCCTTCAAAGAAT
chr8	CACAAATGAAACCCACGAAGAACATAA	GCCGTCAACCTGAAATCCGATAGT
chr8	AAATTGAAAATAGTGACAGCTACGAACCTAC	ACACGTTTTGGTGAGAGTGTGTTT
chr8	CTGGAACAAACAAATAAAAGTGAACAAATGGT	CGACAATAGAGAAGAACATGTGCTTGC
chr8	AAAATGTGAACATCCACTATATATCCACGAA	TGTGGAATGTTAGGAAATATATTTGTGCCAT
chr8	CCCTCCTCTTTCATTTAAAGGTAGTAGAGC	TCTTCTTCTTTGATAACAACCTCCAAGCAAT
chr8	TTACGTACATAGAGTGGTTAGGGTTAATGAA	GAAAGTTTGTGTGCAAATAATCTTGGTACCAT
chr8	CAAGGACAATGAGTGAGATCAATGCA	ATGATGACCCAGAGAATCTTGTGGT
chr8	GAGAACTCTCTCATCTCTCATTTGGTT	CAGAGCACTCTCTAGCTCCGATATC
chr8	TGGGTTGTTGGGAAAATTACAATTTAACCA	AAGCAAGGAATTTAAAGAAAACATGATTGTATTT
chr8	GCTATCTAGTCTGTAAGTCCGTGTCATT	GCTACAACCAACATAGCATCGTGAC
chr8	TGCAATTAACTCGTAAAGATTACAAAATGCAC	TTTTTCGGAAATCTCGTTGAACAATTATTATTAT
chr8	TGCTAAATCACGTGCGTCAGTT	GAAAAAGGATCTAATTCTTACTACCTTTCCATTT
chr8	GTTGATTTGGTTGTTTTGCCCTTTTC	AACACCTAATGGATAATTGGCAAGCTAG
chr8	TTTTTGCGTGCTAAATTGGTCGTT	CATTTTGATTTGCCATTTTCATCAATGGTTA
chr8	GCTGTGTGTTGCTTTTCGATCGG	GGGAAGCAAGAATCGTGGGTC
chr8	ATAAGAAAGAAGAGCAAAACCGTCCATG	TGACATTTTCTCTCTTTGGGCTGAAAC
chr8	AGTTGGATACAGGCCCAGACTAG	CACAAAGTTGCAAATGTTTTTCATTGGGA
chr8	ATGCCAACAAAATGGATCAATCGTAAATT	ACTCAGTAGTTCCAAACATTCAGAGGG
chr8	GTCATGGAATTTTCGTCGCCCTATT	GAGAGAGAAATTCACCTAATGAGCTCTTTTT
chr8	AACTTCATTCTGATTGAGGCATAATCCAT	CGATCGTGCCAATCAAAGATTTGTCT
chr8	AAAAATAAACCTCAAAGATCAACCGAACAC	CATAACGTCTGGAGAGTCATTTGGTATG
chr8	GTTATGAACTCCACTACATAACTCCACTA	GGAAAAATCTATCAATCCTTTCCGGTCAAT
chr8	CTAGCCTCTCCTTTGTATCTCTTTTGGA	GAGAGCTCTATCAACGTTATAATAACCACAT
chr8	GCTTTATCGACAGTCTAGACCATGGAT	TGAAGGTGTTGATAGCATAGAGTTTGACA
chr8	TATTAAAACAACTTACGGAGGCCAAAAAGG	AGGTTAGGAGAAGGTGAAAGGATAAGAAAA
chr8	AAACTAAACAAAGAAAGCTTTGGTCCAAG	AAAGAGATACAAAATGAGGATCACTTCGTAG
chr8	ATAATTCCTCGTTCACCTCCATGCAA	TAGAACATGAGATGAGTTGAGAACTAGGAAT
chr8	TGTGCATTTCTTCCATAGGGAACAG	TCCATAAAGCTAATGGATCATAGACTCGAC
chr8	TTTACTAAACACCCGTGAAAGGACATAATG	ATGAAAGAGATGGTTTTGAAATGAAATGGGA
chr8	TCTTGAGAACGGAGAATATTCAGAACGC	TCCTATTCGCGAAGTTCGTTTAC
chr8	ACACCAATTTGGATTTGTTGAGTGGA	GTGATTGCCAGAATTTAGTTGTATAGATGATCA

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	TAGGTTTATGTTATTTATGCAGGCTTGGAAC	CCCAAAAGGGCTCATCTAATGATAAATATGT
chr8	GGGAAGAGAACAGTTAACGGTAGTT	TGTGGACCAGTGAAACGATACCG
chr8	AGAGTGATGAAGCCCAGACAGAATAG	ACAGGATTATTGTGAGGAATTTTGTTCCTC
chr8	CATCTTGTTTTCGTTGTCCAGCATT	CCAAAGAATAACTAAGATGGGTCATTCAGAT
chr8	AATCTGGCCAAAGAGCTTGGAAG	CAATTGGCTCTTTCTACTCCTTGAAGTA
chr8	AGAGGAAGGAGTACTTGACCTGTAAA	CGGTTCTGTATGAGTTGGATTTAAGTAAT
chr9	AAAAACGAAATTGCTGATGGTTCATAATTG	CCAATTGATGCTACTATTGGGATAACCAC
chr9	AATTTCCAAGCTTTGATTCCAAATTTGGT	GTGCAACCGGTCATCTCAACTAG
chr9	GGAGTTGCTCCTCTGAGAATGG	GTTTTCTGTTTCGATCAACAAAATTCTCCAA
chr9	GGGAGGGTAATGGATTAAGAAAATGGAG	AAAGCTACATACATAGTTGACACTGCAG
chr9	CAAAGAATTTAAGAACAGTGAAAAGGGTGTC	CAATTCTGTGCAGTGTTGTTACCATCC
chr9	TCTTTGTTTCATTTCCAATGTCGTTATTTCC	AGCAAAATGTTAAGTTTATTACTATAGACACCGA
chr9	ACTAAATGGAAACAACTCCAAATTAAGAAATA	AAGGAGACGACTGCGGATGT
chr9	ATCAACAATTTCAACGAATAGAACATCATAGAC	ACAAGTGTGTGGATAACATTTGATGAGATTAAA
chr9	GACCTCAAAGTTTAAGGTCTAAACTCGTA	TGGATGCATGTTTTGGGAAATATGCA
chr9	TCTTCTCTCTCTACTTCGGATCTTCTTTA	AAAAACCTGTTAGTAACCTTAGGCATTGGAG
chr9	GGAGTGGAAGTGAAGGTGAATTT	GACATGAGAACTAAAATTCAACGAACGAA
chr9	TTTATAGATGGTATGAAATCGTCAAAAACAGGG	ATTCTTCAATGATACAGATATAGAAAAAGCCAT
chr9	ACAAACACCTCTCTCTCTTATCTCTATCTGC	AAGTTGATATTAATGATAATTATCCGCCATTGTT
chr9	TCTGCATGGATGCAAAATACAAGGTA	CTTGCACCAAAAATGTACCTTGCAC
chr9	CACACACACTTGACACAAGAATCAC	TGTCATTCAAAGCATTGATTCTTTGGTTTA
chr9	TTGCAACCTTAAATACCTCACTGGTTT	AGTATGCTAATTAAAAGAACTCGTGTTGGTT
chr9	GGCTTTGACACATGTTTATGAACTTATGTC	TTGTCCATAAGGAATGGAACCTAAATCCA
chr9	GTGCATGTGCTTGCCATTA	AGGATGAATTATCCAAAAATGTTGGAAACA
chr9	ACATGCTAAAATTCTTGGTCAATTGTCT	CGAGAGATAGGGATCATTTGCATATCGT
chr9	CTACAAAGCAGCACAAAGAAATCCCG	CAAGGCAGCCAAAAAGATAAAACGTTAA
chr9	AGGGTTTATTATTTCTTACCCAAGTCTAAAA	GCACTTACCATGATTTGTTAGAAAGTGCTA
chr9	AGAGATTTGTGGTTCAAGTCCCTCTAC	CCTTTTCATCTGGCACTTATTCGACTTT
chr9	AGGAAAAATTATGAGAGTCGTTTCTTGGA	CTCAATTGTTGCCCATGCATGTATATATAAT
chr9	CATTATGAAACCTGTTTGGACCAATTTGTC	TGCATATCAAGGGTCTAAGATTTGTTCCA
chr9	GTTGGCTTAGATCAAGCCCAAACC	ACTAGACGATCTATAGGTTATCCACACTATA
chr9	ATGGACCAAATGAAGACTATGTTCAAAACT	TTTTTACAACAACGAGTTAGCTCGTATAAGT

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	AATGTTTCGGCTGATGGAAGAGAA	CCAAACAAAGTTCTCTAGGTAGTCGAAA
chr9	GCATTGAGACGTCGTGAAACACT	TCATGGGATTTGGCTAAAATTAGCAAAAATT
chr9	TCAATTAATTCGATCTTGGACTCTATTGCTT	TAGTTCATTACCTTCACCTCCTATGATGATC
chr9	GCCCTTCCAGGAGTGTGGAATTA	GAATCCCTCTTGCTCTCAAACTAGATTTT
chr9	GCAGTTACAGGAGATGGAACGTG	TTGAATTGTGGACCTATTGACTTGATTACAT
chr9	TAGTCATTGGAGATGATCAGTGGAGTT	CGACCCAACTCTCACTACCTTCAA
chr9	GCGCGAGAATGTGTGATAAAGCC	CCGCCAAACTAAACCTCCCC
chr9	CTTCTAAGAATAGGCCAGGCAAGATT	CTTTGTGTATGTATGGGAACCCTACTG
chr9	CCAAAGCAAAGATGCATTGGATTAATGG	GATGTAATGGAAAGAGACTAATGCTAGCTA
chr9	GCTTTCGTAACCAAAATTGTTCAAAAATGTT	GGAGTTTTGGTTGTTAATGGAGAAATTTTGA
chr9	TGTAACGCTCCGTGTCCAAAA	TTTTTATGTTCTTCAACATTTCACTTTCCAT
chr9	TGATTTTAAGGGATCAAAGAGAGAATTGCAT	GCGTGCAAGCATGAGCATATTTTTTC
chr9	CTCTAAGTTTTGCCTTCTTTGCGTT	ACCATAGTTCTTAAGGAGATGTACCCAC
chr9	CCTTTGCCTCGACTCTGAACAAT	ACTATTGTATGGGAGATTTTGGACCAAA
chr9	ACAATATTAATCTTTGAAAATGTTGGACTTGGAG	GCCGCTCTTATCGCATCATCAA
chr9	ACTCAGATATTAGTTAATTTTCATGGTGTGTTGGT	TTTTAGTATATTTACCTAGGGTGGTAAGGCTA
chr9	TTGGGATATTTTCAAAGATGACTTTGCAAGA	TGAGGCCAAAATATCTGAACTGGAACAAC
chr9	CGCACAATAGCCTCGAACTTGAG	GTAACGGTGGTAGCGACAGTAATG
chr9	TTTACTCCGACATCATCTAGAGTTCCTT	CATGTCACCCATGAAAATCCTTTTAAAGACC
chr9	GCAAATTCAGTGGACGGAATCATCC	GCATTCAAATCATCGCTCTCAATCTCC
chr9	TTTCACAACCAAGTCCGTATAAGTTAGAGT	GCTAGCTAAGTCATTGGCACCTTG
chr9	CAACACTCTGATCTAGCACCAAAATATCAT	CTGCCACAACCTCTGCCTTTA
chr9	TAAATTGCAGAGAGTGAGGTTGCTTT	CCTAACTAAATGGAAACACAAATAGAGGAATGAC
chr9	GGAGACAGTTGTCATCTTTTGTATACCCA	TCCTCGAGTACTGAACAAAAGAAGTGG
chr9	CTCTACTTTGATGAAGGTTTTCCATTCACC	GTAGTCCAACATTTCTGCATCAGGTA
chr9	GTGAGTAGATTGGGAAGAAATATGCACAT	CCAATCGGCAACTTGAGACCTAT
chr9	GACACTTAATCGCACTATCCCCTT	ATTAGTGAAGTCTCTTTTCTTAGAACATATTGCT
chr9	ATTGTCGGCCTGTTTAGAATGATTTTAAAGT	AGTACATTGGCAACCTGATTTCCAG
chr9	TAAGAGACGTTACTCACATTGTTGAATCCA	GGTGATTTGATAGAAATTCGTGTGCCTATT
chr9	GCGCGTAACTTGTGTCTTTCATC	TCCTAGAATTGAGAGGTTTAGCTACACATG
chr9	GAACCTTTTGTTCAAAGGCCTCTAAA	GCAATTAAGTGACCCAAATATTAGGATCCAA

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	GACGGGTTGTCTGGTGAGATTAGT	CCGCCTGTACTAACTACGTACAAGA
chr9	GAAGAGTTAGAAGAATTACTTGTGGTTCCAA	GGGCTCCTTTCTTCACTCAATCATG
chr9	TCGTTTGAGGATGGAAACCTTGTTT	ACCCAAAAGGAAATAATCAACAAAATGTGTG
chr9	CTCTTCCTGTTAGTAAGTGAGATATTGGGG	ATGGAGATTACTTTTTCCGGCATTAGAAA
chr9	GAAAAGATATTATGCACTATTTCTAGCAAGTGCT	TTTGTGTGGAAAAATCAGTTGTTGAGGT
chr9	GTTCACACATAGCAAAGAGGGCTAA	CGGAAGGAACGAGTCTTGAGACC
chr9	GGAAGCTAAAAGTGAGACTTTCTCGAA	CAGTTCGAGGGTCGTCAGAAATC
chr9	AGCCTAAAGAAGGAAAAATTTTCTAAGTCCAT	AAAAATCACCTATATATGTGAATGTGAAGGGG
chr9	GGGTGTAAGAAGTCATTATCTTCTAATCAGCA	AAGAATAAGAAAAAGTATATATGGGAGGAGAGAT
chr9	GCCAAGTGCCAAAAGAGGGTATG	TATGCTTAGGTCTAGAGTTCTTGTGTGTG
chr9	TCTGAAGTATAGAAAGGTCAGCTCGTAC	ACTCTTTTTGAAGCACTTGATCAGGAC
chr9	CGTATGAGTGATGTTTGTTCACGTT	GTGGAGTTATGATTAACACAACACATCAT
chr9	CCTCCAACCCACATGTCCTATCT	TTGAATCTTCCCTAGGGCAAGTTGA
chr9	ATCAATTAGTAAAAGTGGATGGATGTGGTG	GTGATGATACTTTGGTGGAAAATCTTGGT
chr9	AGGTCCTTCATGGAGCAATATTGGA	CACAACTTAACACCATGACTCCTATTAGAA
chr9	GAAGCATTGTGGTCTCCAGACTT	GCACTTAGTGGTGTAAGTGTTGATAATTGAC
chr9	GGATTGCGTTTCAGTCGAGGTAT	TGTTAAACATATGTTTGAGGCATGAAGTTGA
chr10	AGGTGAAAACCATAGTAGAGAAATTGAGTGA	TCCAAACAAAACCTTCAAAATCCCAACTCA
chr10	GCTCTTGCCAAAGTCCAAGACAC	CATGCCAACCAAATAATGCATCTAACATAAA
chr10	CTATACTGTGGTGAATTTTCATGTTTTGACGC	TCCTCTTTCACGGTAGAGACTAATCAAC
chr10	GGTGTGTTGGCCCACTCACTTTAG	GAGGCAGTTGCTGGAGATGATTG
chr10	CCTAAACCTTGTTCCAAAATGGTGG	TAACAATGTCTGGATACATATCTGCACTTGG
chr10	AAATACTTGCTATTTACATGAGGGCAGATA	ATGGGTTTTTGGTATCTAATTTCCAATGCT
chr10	TTGATGACCAAATAGACGTAAACCTAAAAGTT	TCATCGCTCCAACACATCAAC
chr10	AAAGAAAATTGGTCAAAATAGGTGGTTTTGAA	GATGAGTTGGCAAAATTTTAATGTAATGTTCCA
chr10	AAAGAAAAGATGGAATATAAAGGTTCAATTGGCA	AATTCAGACTACTTGTGATACCAATAGAAGAAGT
chr10	AAGTGTAGTTGTTCTACGTCAGAAAAGTT	AAAAACCACCCACCACTACTACATG
chr10	ATTCTAGCTTTTCAAATTTTGATGGCTGTA	ACGAGGGTTACACAGAAACATTTATTGAG
chr10	AATGAATTTGCTACAGGTGTAAATCTAATAGAA	CTGCTTTTGTAGTCTAATATTTGTTCAAGTCAGT
chr10	CCTTCAAAGATCAGAATGTGAATTTAATATGTTC	GCGTGCACATTTACACTAAGGTGC
chr10	GCGAATTTCGAAATTAAAATTAGTCGCGATG	CCGCGTTCGTATAAATGGAAAATTGACC

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr10	AGTTGTGACAATTGATTGTAGGATGGTG	TCATTTGGTGGCTGAAAGGGTTT
chr10	CCTCCTTTGTAACCAGTCAACAGTA	CCTATCATAATGCTTTGGAGACTCTTGAA
chr10	TTCACAACACGTTACAATATCTAACTCACAC	GATCATCTATGTTGGAGGCCCAATC
chr10	CCCACCCAAATCCTTTGTCTCTA	AATAGATTTACGGGAAAGAGGCAAC
chr10	CATTGAGACAAAAAGAAGCTGGGTTT	GCTGGTGATGGCTTTCACATGAG
chr10	GCTTATGAGCATTCTTATGTTTCGTCGAT	TCAAAAGAACATACTCCTAATGGCATTCAAT
chr10	GATCTCTACTGGAGGAGACTCTTGTC	AAAAAGGTCTCGGCAATCAGTATATAAAA
chr10	GCGCCAAGATTATCTCTAAACCCAT	GTCGTGCATGGGCCCTCTATATCA
chr10	AATTAGGCAAACATGCCAAAGCAG	CAAAACAGAACAAAACAAAATCATGCCAAAT
chr10	GTTTACAAAAGAGCCGGAGTTGAAG	GTGGTGACTTCTTCACAAGAGCTC
chr10	GGCCAGTTATGAGCTCAAGCAAC	TTTTTCCTTGACAGATTCTGATTTTGGATTA
chr10	CTACTCTTGATCCTCTTGAAGCGTT	GTGCCCAGAGAAAAGATATTTCACTAAAGA
chr10	TACAATCTCACAGGTAAATGTGAACCAT	GTCATACTACAAAATATCGCATGTTGATGGT
chr10	TCTCATTTTCTCGCTACCTCCTCATT	GTACCTACCAAATAGAAGGAAAGAATCTCCT
chr10	CACGCCGATTTTCATTGCAGAATT	CAACTTCCACCGCAAAGACATCA
chr10	GAAACTATTTTTGGCTTGGACTTTCTACAC	CTTTACAAAATTTGGAAGTCCAAGTAGGAC
chr10	ACTTCAGATGCAACAACATCCCTC	AGTTCCTCTGGTCAACACAATGTGT
chr10	ATCTAGGAGAATACTAAAAGCTTCAAAGTAACA	CCCTTAATGGTCAGTTATTAATTTTATTGGCAC
chr10	GGAGGAGCGTAGTCGAAACATTC	GAGGTTACCTGGAAAATTTCCAAACGA
chr10	GATCAAATTAGGTTGACTTAAATGCACACAA	ATAGAAGCCACAAGAGCTGAGAACA
chr10	AAATTTTTGAAAACAAATATATCCACACATGGTT	CTCAGTAGGGCTTAAATTTATTTCCCAAGC
chr10	CTGGCCCACAAAACGGAATTTT	CCCTGTCTCTGCCTATAAATGGCTAG
chr10	GTCAAATCTCAAATTGCAAAGGTTAAGCA	CCCAAATTTGGGAGCAAACATTTCTGA
chr10	CCCACCATCTTAAAAATTGTCTTCTACGA	ATGCAAAACCTGTCCAACCTACTT
chr10	AAACGGACATAGTTTAAGAGTTCTTTTGTTA	AAAAACATATCATTAGAGGATGCCTTTGACA
chr10	ACACGTGAAACAATAAAATTCGCATACAA	TAGTGTATCCACAAAATGTAGTTCGTTGAT
chr10	CTGGATAAGTAGGTAAGTCAACAAACA	CGATTGGTGTGATTTATTCATATGCC
chr10	GGGCTATACATTCTCGTGTCTTGAA	CCCTAAAATATTTCTTTGCTCTCATTTGCT
chr10	TGTTGATCTAAGTTGTTGCTCCCAT	AAATGAAAGGAATTCTACCATCTGATGCTC
chr10	GCTGCTCGGTTGTAGAAGATCAT	CTTCTCCTCTTCTTCGATTGGAACC
chr10	GATGATTCAAAATTTGGGCCTAAAATAGGTT	TTGGCCCAAACCTCTAAACAGCATAG

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr10	CTGCCACGGGACAACAAAAATCG	GCGATCTCGAGCTTTGAAAATGGG
chr10	ATGTGGTAAGTTGGTGAATAAAAGTAAATTGGT	AAAAAGTTAAGGGAAGCCTTGACATGT
chr10	ACCTCAACCAAAATAGTAGATATCACGTGG	AAAAACTGAGTGGGTCATACAAATAACTGA
chr10	TCACTTCCAAACAGCTCGATTCAAC	GATCAATTGCTAAGCGTTTGTAGGAGC
chr10	CCAACTCAATTTTCGTGAATTTGATTTCATCAA	TTGGTAGAAACATGTGAATACATCCTGTTT
chr10	GCATGATATGTGGAAAAGCTACATGAAAC	TTTTACCTCGGATTATGGCACCATG
chr10	AACTTCTTCTTCCTCCTCTCAAAATGGT	AGAATTCAAATCGGATCTCCTACGTAACA
chr10	GTCGAGTTACCATTTCCAGCACTG	ACTTCAACATCTACCTTTCTTTTAACACCAA
chr11	GAGACAAATTGACAGATGCATTAACGAAT	TCTCTGGACCATCTTTACTTGAAACATTTTG
chr11	AGTAACTCGTAAAAGCACATAATTACGGAC	CTAACTCTACCAAACTTCACCATAAGGTA
chr11	AGATTATTGGTTCAGTTTGCAAGGACAT	GTGACTATCTAGATATTCTCGGACATCCTTA
chr11	AGTAAAGTTCGATTTATGTTGCATCTGAGAC	GGGTGTCTGAGTGGATTGCTTTG
chr11	CCAATAGAACTCAGCTAGAGGCTTT	GGCGTCTCTTCTTCCCAACTTCA
chr11	GTTTCCTTCATCTTCAGCAAACCTTCTT	AAAACCATTTAAAACAACAACATATGCCTCAT
chr11	CAAGTCCGTCGTGCGGATA	TTAAATATCCAATGACAGTTACCAATTTTGCCC
chr11	CAGATTTTGTGTTGGGATCAAAATTACCGTC	GCAAATCTCTGGTTCTATAAGCATCAAGTTA
chr11	GTCAGACAAGGAAACCAGTTTTGTGTTCA	CATCTTCAAAGTAAACCTTCATTGCTTACAC
chr11	ATTTTCAAAAACTTCGTTTCGAAGAACAATA	GGGAACCCAGTGGTCAACATTAAAAA
chr11	GACATGTTCTTCCCTATAAATGCTCATCTT	GCTGAATTCTCAACAGAAGAGATTGCA
chr11	CTTTTAACCTTCTAAAAGTTTCCACCAACAA	GAACATGCTCTCAAAAGTGTGAAATCAATT
chr11	CACCCAGATCCGTGACAAGAG	GATCTGAGTGTGAAATCTTAAATCCTCCTT
chr11	GGTGGAATGCACAAAGATAGGTACTA	GATAAGAGGCGACCAAATTTGTAGGC
chr11	ATCACTTGCCGACGACGAAAAAT	GCTTGTTTAGGGAGCTATCACACTTTTTT
chr11	AGAAAAAGGTGAAAGAAGATACGAAAGTGAA	ACTTAGGCTGCTGAAAAGGCCAA
chr11	GCATTAGTACCCAAGAGGCCAAAG	CAAAACCTTTCATAAACTTGCAATTCAGCC
chr11	CTGATTGGTTTTTATTTTAAAGTCATGAGCT	GGATTAGTGAAAAATGGTAAATATTGCAGCTAAT
chr11	AACCCAAGTAGCAGCATTTGTTTGA	TCAATGACGTGGGCCTTCTTTTC
chr11	AAATCGTTTGGTACGAAATTTTGTAAAGCTT	TCCATCTCCATTTTGAAGTTGGATTCTT
chr11	GTTCATTGGCATAACAGGTTAAGTTAAGGG	GCATTGAGTCCTGGAATCTTTAGATCTGG
chr11	CAAATCCAACATGGAATGAGAAATTCGTT	GCGAACCTGTTAAGAAATCAAGCATTTAAG
chr11	ACAAAATGTTTAAGCTCCTGTTGCTATAAA	AGAGAGGATCTCATGGAAATTTCTTTGGT

表 A.7 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr11	AGAGGCCAAAAGCATCCTTGAAT	TGCTAGTCACCACCACCATTTTCT
chr11	GGGATTTAAGATGCTTTTGCTTGCAT	ACTACAAGAATTTTGGTTTGGCCAACAG
chr11	CCGATACCAACTAAAACCTCGAGAACTA	TCGAAGGAAGAATTTGGTTGGTGAT
chr11	GAGGGAAGAGAGAGACCTGTCAT	CCCTCCCTTTTGATTTCACTTTCACG
chr11	GCATTCACAATGCAATACAAAAAGATTAAGCA	TTCTTTCTCTCTCAAAAATTCCTTCAATCCTTAA
chr11	AAAAACTTTGGTTGACCCACACTAATC	TTTGTTTTATTGTTTGGTTGACCCCTTCTTG
chr11	CGCTTGCCATTTCGGACATG	AATGTGCTCAGAAACAACAGTTGAAAAAA
chr11	GCTTCAGCTTATGTCAGGAAGTAC	GTTGTCATATTGCTGAGAGGCTTTCA
chr11	CCCAAAGGGAAACAATTAAACAAAGAATCT	TACAACCAAGGTTTCAAAAATCTTGGTCTT
chr11	CATGAGCAGCTACAAAGTTGAAAATATTCAA	GCACGTTTTCCATTATAGTTGGAATCTTTG
chr11	GTTAATTCGAAACCCACTGGAGAGAA	AAAACCAGTGCTTACTTCATCAACTTTGA
chr11	ATGATAGGTGGCATTCTGCTTTCTT	CTGAAGCAAGATGCTCTTGCAACC
chr11	TTGTGAAAGTATTAGTTATTTCTGTTGACAATA	AATCCAAATGAAGCTTGCTCTTGCA
chr11	TTTATGTGGATTTGGTTTGATTTTGAACGAT	TGATCTTTTTAGCCAATAGAAAAGGGAGAAT
chr11	ATTTTTCTTTGGTTTAAACAGTACAAAAAGAGCA	AATTTTTCAACGTGGGATCTGAACATGT
chr11	TTTTTCCCTTCTTCAACATGTGAGATGG	GTGAGTCAAGTCATTGTAACAACGATGA
chr11	AGAATAGCAGATCTATTATCCCATTTTGCAT	ATTTGGAAGAGAAATAGGGCACTTCATT
chr11	TCACTTGAAGGTTGTTAGGAGAAATGATAGA	GCTAATGTTACGAGACTGTCTCAT
chr11	GATGTAGGGACATATTGGCTTTTCGTG	GCACACAAGTGTTGAAAGTACCTCA
chr11	AAAAACGTCAACATCATCAAACTCACTA	TTTGATAGCTTCTGCTGCTCCTTG
chr11	TTTTTGTTCCAATTTTGAAATCCTCAGAT	AGGTTCAATCAGATAGATAAGTGTGAGACAA
chr11	CTTTATGCATCCACAAATTGTCAGTT	AGAAATTTGCAAGAAGAAAGATGGAATGGA
chr11	TGAAAGTCTGGAAGGGCGAAATG	CTTGGAAGCCATTTTGTAGAGAATGTCA
chr11	GGCTGGGTGAAATTCATTTTCCCA	CTTCTCTAAGCTTATTTTGGTCCTTGCTAG
chr11	TTTCTTTATAGCAGACAGCAAGCTGAA	AATGTTATAGATCCCACTCTTCTGCATTTG
chr11	TGTCGTATGTTTGTAGCAAACCGTG	CTACCCATATTTTCTCACAAAAGACTAGAG
chr11	TTTTTGGTGTGTTTATTTGTTTAAACAACAAATG	TTTTTCAATACCATCTAACACATTACCATTCCC
chr11	GGGAAAGGAAAGAGACCAAAATAAACCTAG	GTGTGAACATGTGTGGAAAGCAAAG
chr11	GGAAGCAAATTAAGATGGCCTTCCA	ATGTTATATTTCACTACATGAAGACTAGTACACT
chr11	CGCCCATAGTTGAAACCACATCA	AGGTGGCTTTCTTAGGTTATTGAATCT
chr11	CCAGCACCTCTTGGGAAATAAA	AAAATGAAAAGGTTAGCTAGAACAGGTGAA

A.8 甜瓜 MNP 标记引物

甜瓜 MNP 标记引物见表 A.8。

表 A.8 甜瓜 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr0	CTTCTGGAATATATGTTCCAACCTCTTTGAT	TGGTTCCTGTGGAAGGAAAGAAACG
chr0	TTTCTTGTCGTCTTTTCTTAGGTACGAC	ACATCCATCAGTGAAGACCCTAGAG
chr0	GGATGTGTTTCTTACAAAAATACACAAAATAACA	TTGATGTGTTTGGTATCTATTGTCACGTAT
chr0	CGTCTGCATCATTCTTGTGCTC	GCAGCTCGCACTTCACGTG
chr0	GAGCTAAGCTTTCTCACGTTGATTCA	ATCCAACAAGAAGCACCTTCCTTT
chr0	TCTAACAAAATGATGATGATTGGCTACCAC	GCATTTTGCCATTGAGCTAATAAATCACAAT
chr0	TGTAAGGATTCTTCCATTGTAGAGTGGAC	GTTTGAGTAGATCTAAGTACAATCCATGCAT
chr0	GCGGGTTTTGGAGGAAATAGTGT	CTGCTTCCCAGCAACAACCTTTTC
chr0	GGAATTTTGGACCTATGAAAAAACCA	TTTAGGCCGAACCATCCACTTTC
chr0	TGAAAATGAAGGTGAGTTAGTTAGAGAACAGA	GGCTCGCCCAATCATCATTTCA
chr0	TGATTCTTGGATTAATCGGCCTCAATT	TGGAGTCAACTAAGACAAGAGAGTGAG
chr0	GAAGAGTGAAAAAGTGAGTCGAAGAAGAA	AAGTCGTCTATAACTTACCTTGCTTATGCC
chr0	TCCAATATCGAACATACAATGCACAAGAT	TGAGACAGTGTATGCCCCGAGATC
chr0	TTGAGGTTAAAAGAAACAAATTGAAAGGTAAGGA	GGGATCAACTTTCTACCACTGATGGC
chr0	ACACCAAAATCGTGTATATTGGTTGGA	CTCGAGAAGAATCTATTGAACGTGGAG
chr0	GAGAGGTCCCACAATAGAGAAAGAGG	GGTACCACCGTAACAATTGTAGGATCC
chr0	AAACTTCAAGATCCAACCTCAGGAACAA	CCACCTCTACGTCAGACAACCTCA
chr0	CTTCTCAAGTAAACACAAGGTAAAGTAGCT	GATGAGAAGGAGTTATGCGATGAATTGG
chr0	CAAAATCAACCCGAGATATAATGCTTTGTT	ACCCTTAACTTAAAACAAAGCCCTAAACTAT
chr0	TTTTTAGGTTACACAAACTTGCTCTG	CTCAAACCTTCTCTTTGTATTCCAAACCATA
chr0	AGCTTCTGTTCCAATATTGATCTACCTTGC	GCCTTTTCTTTTCATTTGCATGAGGTTATAA
chr0	AAAAAGAATGTTAGGGACTTATCCAACACA	TCACACTCATTAGCAGTTGGCATTATAC
chr0	CCGGATTGAGTGTTCCCTGATTTTGA	TAACTTCAATTATCCCGCACATAACATTCAT
chr0	TCATGGAAGTGCACCACTCAAAG	AAAATGGTGGCACATTGTGATAAAGACA
chr0	AATAATATGATATTATCGTTGAAAACGTGTGGG	TTTCCTAAAACATATTTAGGTATTGACAACACTT
chr0	AGGATTATAATAACCAACCTCATATTCCAAACA	GGAACCATCATTTTCATAAACCCTAAAATCCA
chr0	ATCGAAAGTACAATGACTTTAAATTTCCTTACAT	ACACACATATCCTCCAAACTCCCTT
chr0	TTGTCAATCTTTTAACACTTAGTGATTGTAAGAA	CCTTAGAATATGTCCCTACTCAAAGTTGTCTATT
chr0	ACATATCAACACTCAAATCTCGTTCGTG	CCCATGAATTCCACTCGCTCTAAAAG
chr0	CGCTTTCTTTAGGTTAATGGTCAATAATGCA	CACACATTGGGTTTTAAGAAATAATGGGTTT

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr0	ATCTTCGGAACCTTAAAATTCATTTGACGT	GTGGGACCCAAACTCTTTAGACAAAA
chr0	GTGAGATTTGTTCACTGTTATTCGAGTTCA	TCGATCATCTTCAACCTTTGTATTACGTC
chr0	ACTCACTAACCAATCTTATCTTTGTTGCTA	ACTCTCACACTACTGCTACACGAC
chr0	GAAATGAAGAAGTAGTTTGGGAGGAGAAAA	ACTAAAAGAAAGTGAGAGGATCAAAACCAA
chr0	TCGTCGGAAGTTACTTATATTTCCCAACA	CTTGTGAGTAAGCGTCGAGAGATT
chr0	GATGTTGGATTGTTTGGTTTGGGTT	GGGTCCGTTTGATAAACACCATATATGC
chr0	GGGTTGTTTGTTCCTTACCTCT	AAAAAGCAATTGCTTCCTACCCTAATGA
chr0	GCGGCTGAATATATAGATCATCAACAATT	CAAAATTTGGGTAATATGTAGGGTTTTGCTT
chr0	AGATGGATGTGACGTGTTTGGTC	TGAATGAGAAATTTGAAGAGAGAGGGAAAAG
chr0	CCTGTTTCCACCTCTTCCCTTTC	TGAAAGTAAAAGCATTTCTGAACTCAATGG
chr0	AAATATCAAACCCGTTTAAGCTTGAAAAA	TTGAGAGACTGACTCGAACAGAGAC
chr0	CGAAGATCCGAAGCTCTAAATTTCTATCAA	TGGTCCTAGTGATTATTAAGGACTATGGTT
chr1	CGAGGTTTCAGGATGGTTGATTGGA	TCCAGGCTGCATACAATATTGGGG
chr1	GGTACACTAAATACCCACAAAATGTTGAGA	CAGGTTGGCTCGAAATCTGAAGC
chr1	GGAGGTGTTATATACGAGTGGATTCAAG	CCCTTCTTCTTAATTAGGGTTTTAGCGTATG
chr1	GAGTTTAGGAGTCGACAAAGACCAA	CATCAAAGCACTGAGGATTCGTTTGA
chr1	CAAAAAGTATAATGTGATAAGACATATGCTCCC	TGATTCGTTAAACATCAAGGTACACTTAGGG
chr1	GAGGGTTTTGTTTGAACAAAAGAGTTT	ATTGATCCGTTTGGTAATAATTTAGTTTTTGAAT
chr1	GGGTTATGAGGAGGGATTATTTGATGTT	TCCCTTGTCTACTTTCTCTTCATCTTGAT
chr1	GAATATGTTGAAGCAAGATTGTGTTGAGAA	CCTTTTGGTTGAAAAATCTAAAAACGAGGTT
chr1	TCAAGCTTGTCATTTGATTCAATTTCTTCCA	AGACCACTTTCTATTGTGTTGGAATCT
chr1	AATCCAAGTTGGTCACTTATCATCATCAA	GAGTCGATTATGTTCTCAAAAGAATGAGCG
chr1	AAAACTTGTACTTCAATTGCGAAGGAT	GAATCCTTGAACGAAAAAGAATTTCTCTGAC
chr1	GTACATATAAATGAACCAATGACCACTCTA	AATTTTTTACCAAAGAGTGTTTTGGTTGGAG
chr1	GCACAATTGAGAAGAGACGCTTC	GCTTTCTTTTCTGTTAGCCATCTACCAC
chr1	ATTCCGACAATGGAAGGTTATGAGGT	ACCTTAACTAATGCCATAAGAAGCTCTTTTA
chr1	CCTCTACAAGTATTCATCATCTTCTCCACTC	GGCTAGATCCTGGATGTGCTTGC
chr1	CATACACAGAGCTCGAGTTGGAC	AAACGATCATGTGCCGATTAAATTAAACATTA
chr1	AAAAACGGCAAGACAATCCAAAAATGG	TGCGCACCAAGGTTGTACAATAA
chr1	CCCTAATCTTTGTTTACGATTCTGTG	GCCAACGCATATCATTCATCTTTTACA
chr1	AGATCTGACTACTCTGCTAGAAGTCTGA	CACTAAGCTGATATGCTGAGATGGTAATTG
chr1	CTGATAGTAGAGGCGTCCAATCTTGC	TATTCATCATCTTCTGCCTCACAAAGAAAC
chr1	TATCAGGGTTAGTATTACCTCGAGCTTATGT	ATCTTGAGGATCAATCTTTCTTTTCCGTTAG
chr1	CGTGCTTTGTGCTTCTCCATCTT	CCCATTGAACTTACCAAAACATACCAAAAT

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	GCCTAGTGGAGGAAACCAACTGC	CGGTACCACGAATGTGTGACTGC
chr1	TTGTGTTCCCTTTGGACAATTTGGTTTTG	CCCTCTCAAAGATGAACAAAACCTAGAAAATT
chr1	TAGGCGCTTGTATTGTCTAAGCTGG	GAACAACACAGTTCGACAAGATAAAATTTCAA
chr1	AGTTCTCAGAGTGGATCTTAGTTGTAAGAT	CCTCCATCTTCTCCAAGTCCGATAG
chr1	AAAAACTTTTCAGTAGCAATATATCATGCAAAT	AGATCCAATAAAGAATTCATTGAACAATGTCAAG
chr1	TAACTATATCAGACTCCGGAACCTGATTCT	TGTTCCCTCTATTCTTCTTCCCTCATCTG
chr1	CCATAGGATTCCTCCCTTTCCCATG	TTCTTGCATCTTTTCATTTTTGCTATGCTAGT
chr1	AGGAATTATGGTCTTAGGAACTTCAAGACT	GTGACTTTTGTAGAGCTTAACTAAATCAACAACCT
chr1	ACGGAAAAATGTAAGCTCCATTCCCTT	GGTTTGGATAGACATAACCATCCACATATGT
chr1	GAACGATCCTAATCAACATAACAACAAACCA	CACGGTTTTGTGTAGAAATATGATAGCCA
chr1	TAGATTCTTTCAAACAAATGTTGGAATTGGGT	AGTTGGTTAAGATGATAATGCATATTTTATGTGT
chr1	TGGATTAAATTGTCAATTGCAAAATGATGAAAA	GAATGGAAACATAAGTTTCCCTCTAGGTTAGTAGC
chr1	ACCTAAACAGTACTCAAGATGGATCGTG	AAAGAAGCTAAATGGCTACAACGATTACTAA
chr1	TCATCAGAAAATAATTGAAAACGCGTCTTG	TATCTCAACATAACTCTTGACAGCTAATGCC
chr1	ATCACAAAATTCACCTCTAAAGTCTCCAACTA	AGTTCAGGGCCTTAATATTGTTGTAACCC
chr1	CTAGCCACTCTCTTACAACCTGAATAAAGGA	AGGAGAGGTAAATTTTGGTATTCTCTTGTTTT
chr1	AGATACTTAAACAAACCAACACAACCTTTGGA	ACTTTTTGTTTTTCAAATACCATCAAAGGTCT
chr1	GGCGGATTCTCTCTAACTTTCTGT	CCTTAAACCAATAAGGTCGAGGAATAGTA
chr1	CACTTCTTAGAGTCACCATAATCTTACGGA	TGACACCCAACCTTTGTAGTAGATGTGT
chr1	TCTGCTTATGTCATAACTCACTATCCCAT	TCCAAACGCCAATATGAACAATATTTTCAGA
chr1	TTGTTATTTTGTGTTTGGGAATGTTTGTGCA	GCTCATTAATCATTTGGCTTAGAGCATACAC
chr1	AGTTTCAATAGTTGCCCAAGTGACATAA	TGACTGGTTGGTAATTGTTGTCAACTTATAA
chr1	GACTTTGTGGATAAAGGTTTCATCTTGTC	TTGAGCAATTGTCTGGAGGATTTTTGT
chr1	GCCACATCCTTCTTTGCTCCTTC	AGATCCAACGATACGGAGTTGAACA
chr1	TCAACTCCACTGTGTCCAAGTTGC	CTAGAAGACCAGTCATGCAACAAACC
chr1	CAAATTGGCTTATCGACAGTTAAGACCA	GTGGTTACCAGTTCTTCCCACTTTT
chr1	TCGTGGCTAGTTTCAAGTAATTTTCATGTT	GCCTCTGCGAAGTTAAAGATACAAATACTTG
chr1	GACTGAGAACTAATTGAGTTTCCAAAGACA	TTACAAGCGTTTTGAAAACTCCTTCATTC
chr1	TACGAGGATCACTCCTAAAACCTCAT	ACTCATCAGGAATACTTTTTCTGACACAATT
chr1	AAGGCAAGAGGGTAGCTTGATGA	GATCCACAGGTGACATCGGAAAT
chr1	CATAGATCGAAGTCGAAAGTTCTAGCAA	CGAAATTTTCGTAAAGAAGTTTGGTCTTGAAA
chr1	CTCAATTGTTAAACACATCGCACTCAA	TTCTCGAGCCCTTAAAAACATCTAGATGA
chr1	AGTTGGTTGTCTGAGATGATCATCAAAG	GTCTTGTGGAATTTTAAGTGTTCAGGTT
chr1	TTCTTATATGCTTGTGTTCCAACCTTGCTAA	ATTTTGTGTTAAAGCTTCAATCAAGACTTACGG

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	ATGTTAGGATGTGACACTATATTCCTCTAAG	TAAGACCACATGTGATGTGATTAAAAGGTTTC
chr1	GGGAGCTTAAATTACCAAGAGAAAGTGT	GACAAGTAGTAAACAAAACACGAGTTTGTTA
chr1	TTCCCTTCCTAAAGAATGGACCTATTAACACTT	ATTCAAAAGCTATGATCAACTTTCTAGTAGTAGT
chr1	CGTAATCCACACCTCAATTAAGGAGTG	GAGGTTACATCAATTTGGTATAAAAGCGACC
chr1	ATTTTCAAATTATGGTTGAGGATGCAACTTT	GAATTGACTCATGAGATTGAGAATCTTTGATTTA
chr1	CGAGCATTGATTTTATAATGTTGGTAGTCAA	CCCAAAACAACAAATAGCTAGAAAGCAT
chr1	GCCTAACAAAGCTTGCAAGCTTG	TGATCCAACATAAACACATGTTGCAGTAATAA
chr1	AGTAAATGAGAATTAAAAACGTTGCCAAACTA	ATTGACTTTGTGAGGATTAAAAGTGATTCAAAAT
chr1	TGAACCTAGGTGGCATGCTTTTTT	CAAATCTTTTGGTTGTGAAATGACCCTTG
chr1	TCTCTAATCTTACTTGTGTGAATTTGCACTT	TTCTCACTCCTAAGGTTTGTACCAAACA
chr1	AACTTTACACCTAGTTTAGTAGTGATTTGGA	TTTTTAACAAAGAAGAAGGAATCCATAAATGAAA
chr1	AACACTTTGCAAGTTGGTCATTTCC	TCGAAAACATAATTGAAAGTGATGCATGA
chr1	TCATTGAAAAATAGTTACCCATCAACCCAAA	TTTAAGCTTTTCGAGTTGGTCGGTAA
chr2	CAGACTTGCTTGCAATGAAAAGTGTC	GAGAGGTTTGCTCGTAAACTTGCT
chr2	AAGGTTGAAATTAGGGTGACAAGCATAA	CACATGTTTGTCTGACAAGACCATTTTTTA
chr2	GTGAGAGAATTGATGCAATCTCAACAA	CATACATTTTTGTCTTTGTTCCATCTGTGAT
chr2	TCATAGAAATTGCTAGAAATGTATTACATCGCAG	CAACCATAGCCGTTTAGTAAATGTTCA
chr2	GTTCAAGTTCAATTTCTTTCCACAAAATATGGT	GAAATCCAAACCTTTTGATATCACTTTACTTTTTT
chr2	AAATGAAACATCACCAACCATATCAAACCT	TAGGTTAAAGTTTGTAGCTTTAGCTTCACAT
chr2	TGAACCTCTAACTTAAAGCGGAAGTACG	GTTTGCTCTCTCCACTTGGTAGTTTTAG
chr2	CTAGAATCAACATTGGGTCGTGCAATTATAA	AAGGTGTAAAGGGTGTTTGTAAAGGAC
chr2	GTGGCGAAAACAACTAGTGTAAGAAGA	GTTGCTGTAGTTGCGAATTTACCTCT
chr2	CAACATGACTAAATGTCTCGAAGAAATCCA	CACTCACCGAGCCAACAAGAATAA
chr2	GGCAGGTTCACTCTATGTGGTTA	CATGATATACAAACTTTTCAACGCATGTT
chr2	GGGTGTTTTCTTTCTTTAACCATTGTGTTTT	AGAACTTCTATGTGGGATGTTAAACGTAGA
chr2	CTTTCTCGTGATAATGCCACTGCTAA	TCTGAAGCACTTGAAAACAGTATGAAAA
chr2	CAGGTCGGGAAGGCTTCTC	CCGTCTCCATTGCATAGTCGAG
chr2	AATACCACTCCACCACTTTGAATCAAA	TGCGATTGAATCTTTGTAAATTTTCATGGTTA
chr2	AACAAATTTTCTTTCTTCACTTTTCTTCAATCTTC	AGATGATATTACTCCTTAAGATGGTGTTTTAGAT
chr2	ATGTACGTAAGGCAACACATGGAA	TGCGATCACTTAGAGTTCTAAAGCTTTAGC
chr2	TTTTTGGGAAGAGGAAATCTCTCCTA	TAAATGGGAGCATATTGATAAGTGCATTCTA
chr2	TATTGTTGTATGGTTGGTTCTCTTGAC	GTAGAACATCCTGAAATAGTTGATGGAGTC
chr2	AGAACAGGCAGTAAGTACAAACAAAAACC	CTTCTTTCCGTACCCATTTTGTGTTTTCAAT
chr2	ATTGCTTGTGTCTCGTTCTAGCTT	GTATGGCTTAATCTTGAGGACAACATACTAC

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	CTGGTTCTCTAATGAACAATTGGTTTACGG	GCATAGACGAGAGCACCTCAAAAGC
chr2	CGTCATTTTAGGAATGCATTGGCTG	ATTAATGGGAGGTACTCCTCTTCTCTTTT
chr2	TGAGATCTAACTCCAGCCTCTTTTATGTC	GAAAACAGCTGCTTTAAGACTATCCAACC
chr2	GTCCCGCTGTTCATATAGACACCC	TCATCGTGCTCCATCAGAAATCCC
chr2	ATTAATGCATGCATTACATGAATCACATA	CTAAGATTCATGCGATAACTTCTTTCAAGGG
chr2	CCGGGATAACCATCTCTATTGGTATGA	TTGTTCTTATCACCTAATAGAACATGGACAA
chr2	GGGTATTTTGGCTCTCGTCCATA	AAACATAGAGATATGTTGCTTCGTGGAAG
chr2	TCTTCTTCTCCCATCGCCTCTTT	CCAAGCCACTCAGCCTTGATACT
chr2	AAAAATGACAAAGGTATGCAATTTGTCTCTA	CGACGTCGGTTTTGTGTTCAACT
chr2	CGGCTCAACCACTTTCACAAGTT	TAGCAAGATGTGTTGAACTCAACGTT
chr2	TAGTGGAATGCATTTTACGCGACAT	GGAAGAAGTGTTCAAATGGGTCAAAAAA
chr2	GAATTAGCTTGAACGTGGAGGTATCTC	ATCCTCCTATCATCAGACTAAAATCGGAA
chr2	ATGTTACATGATTCCTTTTCTTTAAAAATTGTCAT	TCACATAACTTGTCGTGAGAAACAACAG
chr2	GGTAGCAGTCTAAACGATCAAAGGTA	AGATCTCTTGAAAAATGGTCTAGAAATGCC
chr2	GGCATACACGAGACATACCTCATTA	AAGACGTGTTATTTTAAAAATTTAAATCTTCCCTT
chr2	AGCTATCTTACCTCAAAAGTCAGCTTCA	GTTTTTCATCCCTTCAATAAAAGGGTAACTTA
chr2	CTAATTTAGGCATCAGATCATAACAACCTG	GTTGAATAGGTAAAAAGGGAATTATGTTTTGGTC
chr2	TGCATCGTTTACGTATATGTTTTTCATCTCTC	ACATTTCTGCATTCCTATCGCCATTATAC
chr2	GGAGGCAATGCTATCAAGAAATGCT	GATGCAAAGCATTTAAAAATGTCCATGTATGT
chr2	TGAAGGAAAATTGGATCTTATTTAAGGTTTCATC	TCTTTTGGGCATCCATTTGTTATTTATGTCA
chr2	ACTTCAGTGAGAACATTGATAGTATTGAGCA	TGCATAAACATCAATGTATCTCGTTCCCTC
chr2	ACCACACACATGCCACATATTTTAAATAAC	CAAAATGGAGCATATCTTTCTCAAAACCACTT
chr2	GAATGTAAAGCTTGTGTTGCCTCTTC	ACATAGAGTTCAACTCACTGATCACCTAG
chr2	ACTATTGAAAATGAGTTGCTCGCAATCA	TCTAATCTCTTGTGTATTGCGTTGAAGAGG
chr2	CTTAGGACGAAAGTGGGTGAAAA	GACCTAGGTTGTTTTCTAAGGTTTTCAAAGT
chr2	CGCACTGTGTACATGGAGTATA	TTTCAAAAGAGTTGACTTTAGGTTGGAGAG
chr2	AAGGAATCCGTTGAAGCAAACATTTAATAGC	CGAATTTGGGTGATGAGGAGATTAATTAGAA
chr2	TTCACAACATAATCTATCCAGTAGTAGAGTGTA	TGATATCAAACATCATGGCAAAGACATATTAAGAA
chr2	GGTATGAGCACGCTCTTCTCATT	TCCGATCCAGACACTGCATTAATAATTTT
chr2	CTAAGCTAACATATGAGGCTAAATGTGAGAC	GGAAGTCCAGAAAGGATGGCAAAAG
chr2	GCTACCTAAATTAAGACGGTGAATTTACCA	AATGGTTTGTATGTTTCGATGTGCAAAAC
chr2	TCCGTCAAAATACACAAATTACTTTTCGAGAT	AGTTTGTTAGGGATTTTGTATTTGGGATGAA
chr2	GGGTGAGATGTATGGTTTCCTAAACCA	AAATTTGGGTCAAACATTCCTAATGTGCC
chr3	GGGCAAAATGCTTGTGTGACAATATTTTT	GTGGCAAAAGTGCTAGCTGAACA

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	TGCCACAGACACTCTGATGTTTAAGT	CGACCTTCAGATTAAGACCAATAATCTCTTG
chr3	TTTTGCATGGGTAGTGGACCATT	GACTCTTGAGCAGGAGAACAATCTTC
chr3	AGGGCTTTAACATGTCGCAAGAG	CGCTCCCTGTCCAATCTACTTTAGT
chr3	ACATTAGATAGTGCCCAACATTAAACTCAT	CGGTTCGAGAACGAGTTCACCTGC
chr3	AGCATCAAACAATGAACCAACCATCC	CAGTGACCATGTGGATTAGGGTTG
chr3	GTTGCTCCTGATAAATTTCCATCTATCGTC	TGCATACTTCCTTCATTGTCTTTCACTA
chr3	TAAGCCACACCTCAAACCATATTCA	GTGGAGGGAGAGAAATGATTACTCAAAATTA
chr3	CATTATCTAGGTCATGCGAGACCATG	TATGTCGAAACTAAGTCATGCAATGTCAC
chr3	AGTACATTTCTCAAGTTGAAAATTTTTCATTCAC	AAAAAGTCAATATATATGCCACCACCATTTTGG
chr3	AGTGCAAGACCTTAAGGTCTAGGAT	GCCTGTAGGGATAGTGCTTGTGT
chr3	GGGAAAATTTGACTTACTTAACTGCCT	TTTTCAAAGTGTGTGCTTAGGTATAACTACATCTA
chr3	CGGTTAGGAGTGAGGTGAGGTAT	AAAAATTTAAGATGGATCGATTGTGACCAG
chr3	CTCATTTGAAAGAAAGAGGTGGCAAAG	GAGGTGTCTCCCAATCCATTTACAT
chr3	AGTCTCAAATTGTCTATCCATAATTTCTCTACAAA	GTTCAACAAACGACCGATTCAAAATAAAAATGT
chr3	CATCTCACATGAAGGCTACTAATCAACAT	CCTATCATCCAAATGGAAGTGGAGAAGG
chr3	CTCAACCATGAAAGGATGCTACCAT	AAAGACTTAAAAGACTAGTCACTTGGCATA
chr3	GAGACGGATTTCGTTTCGTCTCTG	CAAGCTTGACATCTCAAATGGCTTG
chr3	GATCTGAAATTGGGACGGATCTGAA	AATACATGACGCCTTCGCTCTTT
chr3	CAGGCTGTACATCCAACAACAACC	ATTTTGAGCAAGGGAGAGTTGAGTTT
chr3	TCCTCGTTGGGTGTAGATCGATG	ATTCCAGAAAACAGCATTTTGACATCCC
chr3	CCGAGTAGTGTGGTGTGTTAGGT	CGGTAGGGCTAGCACGAATGC
chr3	CCACTTACTGCCATAATTCATGCT	GAGACACGTGGCATTTTGAAGTTG
chr3	GTATTCCACGTACAAATGATACCCACAA	GGGAATGGAATGAATACTCGTGTTTATTTG
chr3	TCATGGTCTTTTCTCTTAGTTTCGAACTTCT	TTCAATCAAACCTACGTAGTCCAGAAGAAAAT
chr3	ACACTCCACAACCGAAGTCCTAG	CAAACCTTTGGAAAACAAGGTCTTCATTTAG
chr3	AGTTGTTGCCACCACCTCTATCT	ACGGAGATATTCATAATGATCCACAAAGA
chr3	TCTTGTCGCTTCTTGTGCTCAC	CACAACACATGTAGAAGCGGTAAATATGA
chr3	CCCAACTATTTGAGGAGGAGTGTAAAG	TCTGATTTGCCGAATTGACAAAACACA
chr3	ATAAAAGGGAAGGTGACTCAAGAAATTGAA	ATGACGTTCAATTCACCAGTATTAAGCA
chr3	CAAAATATGAGGATTGAAATGCAAATCCAC	CACTCAGAGGATAATGTGCATAAATGGAAG
chr3	GGAATGGGAACGTTACCAAACAGA	CCACGGCACCATCTTCTTCTTTG
chr3	TGAACAAGTTGCAGCAATATTCACAAAT	GCATGTTCACTGAGGACGAGTTG
chr3	TACCATATGTAAAAACACCGAAGCTGAAG	AATGAATTTACCCAAGTATATCGTGAAAAA
chr3	GAAAGTGTAAGCCATTACACGCAT	GAAGTCTGTGTGATATCTTGTTTTGTGTGT

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	AGTTGGCTCTCCACTTTAAGTATTTTGAC	TGGTTATTTAGGATAGTTTCAAGTAACCGTT
chr3	TCAACTCCTCCCATTGAACTTCATCT	CCCAGTTCCCAAATTTAAATTCATAGAGGG
chr3	TGCTGCTTGAAC TTCATGGAG	CCATTCCTCCATTTTCCACCAAGC
chr3	CGTCGTAGAATTCGTTGTTCCAAAT	ACAAACACATATCGAAGGAAGACTTTAGATT
chr3	CCTAGTTTTATCATAACACTAGCCTTCCATA	CACTCTAAAGAGGTGTATGGATGCATG
chr3	GGCTAGAGAAGCCTTTAAGTTTTTCCTT	ACTATCTCCAGGAAAGCCTTCCATAC
chr3	CCTTCCACAGCTTCTCAACACAG	GTGGTTGTTTCGGTGAAGGATATTTCTATAA
chr3	GGAGACTTGGTCTCCATTCATTTCCA	ATCACCAACATATCTTTCTCATCGAACAC
chr3	CGAATGAAAAACCCGATCCTCTGAA	ATAGTTTCAGAGCGGTAGATCTAACCTT
chr3	CTCTAATGGTCACTCTCTCTTTTGAC	TAGCATGTTCTAACAAAAAGTAGTTGTAAGTAT
chr3	ACTTTGCTATCTCACTGTCCACCTAA	TTTGAGCCCATAACATCACTCTACAAAAT
chr3	CCAAACCCTGACCTTCTCGTT	AGTACATTTTAAGCCAGATAAATGTAAGTAGTA
chr3	AAAAATGTTGCATGAAGGAGTGACGG	CCTCTCCACCAAAAACTTTTTACCTAC
chr3	CTACACAATTCCTCCTCACACCTAA	AGCATTTGGTTATTTAGTTGTGTTTCATATGCT
chr3	ACACAACCTCGAATCCATTTATCATCCAA	TGTGTAAACTTCAATAATTTTGCCATCGAA
chr3	TTGTATAAAGTTGAGAGCTTAACTTGACCAA	CGAATATCAGGTTCTCGCAAAATATCATTTTTT
chr3	GCAATGTATCGAATGATTTATCGAATAGAGTAATA	TGCTCATTTTAACAATACAATGGTGTGTAATTTA
chr3	TATCATCGGCCATTGCCTGAAAT	CCAGAAAACGACAAAATTTGTA AAAACCATCC
chr3	GAAGTTGTCAAGAAATGAATGTGTTTGAGAG	GACACGTGCACATTATATCATTTGAAGTAC
chr3	AAAACATTCAAGGACGTGAAATAAACAAGAA	CCCAACTTCACAATCTGTTTCATCAACTATC
chr3	TTTGATCGAGCGGAGAAAAATAGAGGC	TCGAAACAAGAAAGAATCATCGCAAAGA
chr3	AGCAATAGAATGGGATTTGTGGTTTCTC	AAATGAAATTTCCGATCAAGGGAGGAAA
chr3	ACGTTGTTTTTCATCGAACCTGAGAA	AGCCAGCAATGAACAACCCTTTAG
chr3	GTATTTGAAGTCTTTGACGCCATTATGAC	TCTTTTCGGAGAATAGGAAAAAGAACAAGAGT
chr4	AGTTAATTGTTGTAGTAGTCCAAAACGTGAA	CCAATATAAGGTTATTTGTTGTTCTAAGCGTT
chr4	GGTAGCTCGACACGGTTATGAGA	GACAGTTTGAATTCTCTTTTTCAATTCAGCT
chr4	GTGAGCCCTCTTACTTGGTGATTT	GGACCTTCAATTGAAAAGTAAGAATGTCAGA
chr4	ATGTCATTAGAGAAAGAAGTCCTGTTCTTCA	AGAGATCCAATACCTATCTACCAAGTGTC
chr4	AATTCAGCTTGGACTCGGGATTG	CCGAGGGAAAAAGCTTTTGCACA
chr4	GTACTTGGATTCTACCTCCAAGGTTTG	ATTTTATACTAACTTCGTGGGCTTGTAC
chr4	GTTAATGTTGAAATTGCCCTCAAACCTTATATA	ACCTTTTTTATTCAGCTCAAACATTAATTTTCATCC
chr4	AAAAAGTATGTAAGAATGTGTAAGTGCAATTTT	AGCTGATTTTGAGATTGAAAGTGACACTTAG
chr4	TCCAAAGTTGGCTGAACTAGCTTAAGA	TCTTCGACCACCATGAACATCTCG
chr4	TATGGCAAGAATGTGGAGGGATTGA	GACTCTTTTTTGGTACAAGATTAGTGTGAAGAG

表 A.8 (续)

染色体	正向引物(从 5'端 到 3'端)	反向引物(从 5'端 到 3'端)
chr4	AGATTCTCAATCTTCCAAACAAAGAGACAT	GTCGAATACACCAAATGATCTCCGATT
chr4	GGTGAACAGGAAGCGAGCAATAC	ACTTGAATCCCTATGCATTTCAATTCAACTT
chr4	TCTTGACGGGTGTAACCAATGCC	TCATAACTCCACTTATTGTACACAACAAAAGAAA
chr4	ATTTCTTTGAATTTAAATTGAACCAGAATCCAA	ACGCTGCTTTTGCCGACTAG
chr4	CATTCGCCGTAGGTCACCAA	GGGAAAACGAAAATAATAAAAGCGCCA
chr4	TGTTCCAACATTTGACCGTAGAATTCCA	AGTTAAATACCAACGAAGCTTTGTGGAT
chr4	CTTTTTTCGACACGACTTCCATAATAGCT	AAAAATGAAAGGTGGCCTCTACTTTTCA
chr4	ATTACTAATGTGTGTTTTTGGTGAACCCTAC	AACAAATCGTATACCATGATTCGTCCTTC
chr4	TTTAGGATTCAAGGAACGCCACATC	TGAAATAAGAAAAGGACAAAACGGTTGACT
chr4	CCATAACCAATGAAGACACAATCAAGAGTT	CCATAGCTTTAATGTCGATTTTAAACATCCGT
chr4	TCCTATAGAGGTCTTCTATGCAATTATCGTG	CCCATCAATCTCGTGAATAACGGAATTG
chr4	GCCCTATTTTCAATTGCATAATCTTGATGTT	TGACATTCACTAATTGTCCATCATGCTC
chr4	CGATCTAAGTACTCATCTGCCAATCT	GACAACAAAAGGTTACGTGGAAGATCC
chr4	CCTCTGATGCTAGTTCAATCCAAGTT	ATGGTGAACCCAAAAGAATTACCATCTTAA
chr4	CTCCACTTTGTTGATTCTCGCAAC	CATGAAGTATGGTACAAATTCTCTTTTGCAA
chr4	CATTTGGGAGCATGATTTGTTTTGTGT	GAAACCACACACAAATCTACATTTCTCTCA
chr4	TACTTCAGCGAAGTGCTAAGGATTGG	CCTTAACTACGGATCTTAACTACAAGTCTTA
chr4	AGCCTAATTAAGGAGGGAAGGAAGAG	GGCACAACCTTAGTCTTGCCTTG
chr4	AGTGCTTGATGAAGTTGTTGTCCAC	CTAACTGTACCCAATTGTCCGACAA
chr4	GAACCGCCTCTGTCTTTCTCTTC	TAAGAAATGTGACGGCGATGGTTG
chr4	CGTACAATAGATCACAGGGCATCAAA	GGCATTAATAATTTATTGGACGATTGTGGATC
chr4	CGAAAGCATCGATAGAGATTGCTGAA	ACCTATTGGTCAAGAGACCTTCGTT
chr4	ACTATTGCTTTGATAATTTGAACTTTTTTGGTCAA	AAAATTATAATGTTGAGATGTTGTGAATTCCAC
chr4	TCATTCTTTAAACTCTCTTTAGTTTGCCAG	AGTAGGCGTGTTGAAAGTTCTCGT
chr4	GCTTTTCTTGAGGGTAAAACAAAGCA	CGTTGTTTGTTTTTTGCTTTTTTGAAAATTGCT
chr4	GTTGTGACAGAGATGGATTCCGTC	GACACTTCTTCTCGCATTACTATGCTAAA
chr4	TGGCAGCCCAATTGAGTTGAATAT	GTGTGATACCCTTCAATCTTTACAAACGA
chr4	TTCAATTTATCTAAAAAGTGACGCTGTTGAAGT	ATCAATTTATAGTGATTCTATTGTGTGTTCACTT
chr4	CTATAATGTTGCACTCTCTACACAATTGTCG	AGGATGCCTAGAACACTCAAAACCT
chr4	TGTCTAGGTGAAGAGAGAATCTCAGATCT	TTCTTTCTTCACCGTTAAACACTACTTCTTG
chr4	GGCGAAATGATTTATGACGCGTTA	TAGGAGTTGTGTGGGCAATCTTGA
chr4	CCCACCGATGCTTTCTTGAAAAA	AAAACCTGAGAAGATTTCTCCCAAAACTACAT
chr4	CCAGGTCACCTGGGATGAAAAGC	TTTGAGCAAACCTTCATCCCTCGATC
chr4	TATCCTTTGTGGTATATGACCAATCTTTGGT	TTGAGCCTTTAAAAACACTAAGCAATCCT

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	AAATTATGTCGACACATCATATCTTTGCCC	TCAAGAGACATTAACCTCCGACATCATGC
chr4	ATTTACGTTTGAAGTTTGTTCCTTCAGTTA	TGGTGGATGAAAAAGGCTCCAAC
chr4	GTGAGGGACGATGCCAAGTATAG	AAAAGATAGCCAATGCTCTCCCAAC
chr4	AAAAATGGTTGGGATGAATGAGTTGAGT	TTTTTCCTCTTCATTCTCCTAGTTCTCAGC
chr4	GAAAAATCCTTTACGCAACCACCTTC	GGGTGTGTCATTGAAGATCTTACTAAGAGTTG
chr4	AAGAATAAAATATTTGCGGTTTAGTAACTCATTC	TGTGAAGTATATGAGCCAAGAAATTGGTACT
chr4	GCATGTGTTTAGGTGAGTTATTTAGAAGAAAAGC	CATCTTAAATGCCTACACAATGTTGACTCT
chr4	ACAAAATTGGAAATAGTGGAGGAGGTTG	CATAAGATAGAGAAATGTAGGTTGGTGGTTA
chr4	GTTATATGCTCGAATGCCTCGAGTAT	AGCGAGAGTTTTTCAAACGATTTAGTTTTACG
chr4	ACTCCCATCTTTCAACACCCATTT	GAAATGGGAGTAAGAAATCACATGTTTTGAT
chr4	TATCTTTATTTGCAACCTCGTGATTTCGAT	GCATACGAACTAAGCAAGTTCAATCAAATTA
chr4	AAAAGAAGTTTCAACAATAGTTAGAGGTGGAAA	TGATTTACCTCTCACATCGATGTTGAACT
chr4	AAGACTCGGTAATTCGGTGACAATG	CTTCTCTCGCCATTTTCTTCTTGACTGT
chr4	CGCGGTTTCATAGATGTCTAGCC	ACTCATACATTTGGTTATAGAATTGAATCGAGTA
chr4	AAACTTTTGATGTGAGAGAAAACCTTGCC	AATGGATAGGCACATTCACAACGAG
chr5	GATCGAAGTCCTTTGCGGAGATT	TAAAATATGATCTCCACTAGGTGGACACTT
chr5	TGCATGGCTGGATTTTTTCATTTGATT	CCACCTGAAGACCTACAAAGGATGT
chr5	CCTCTCTCCCTCCCACAATCATC	TGCTATCATTTACATGTCTTGTAAGTGGTT
chr5	GCTGCCACCTTGTGTCAATTTGT	TCTCTCCATTTTCAGCTTTGAAATCCTC
chr5	CGTCAGACCTAAAAATTTTCGACCCC	TGGAATTTTGGGAGTAGTTTATTAACCATGATA
chr5	GGGCTCAACCATTTATGCCAAAAA	GTTAAGGCATTTATCCATCACTAAAAGGTCC
chr5	TGTCCTCGTCTTCTTCTTCTTCTTCTT	AAGATAACAATAAAGGTGTGTAAGCGTACAA
chr5	GAGTGTGATCGATGATGAACGTAAATGA	CAACACCTTAAACACAAACATTACAACCTCAA
chr5	GTGAGAGTGTATAAATTAAGCTTGTTCATG	ATTAAATTTGAGTTTAAGTAACCAAATGCGTGAA
chr5	GGACAATGCCAATGTGCTGATGG	ACTATTTTGTAGGTTACGAGCTAAGCAAGG
chr5	CATGCATGGGAGATGTATCAAAATGTGT	GTCAGGAGTTGCTCTCTATACTGACG
chr5	TGCGAGCAAGTAGTTGATATTTTCTCTC	TCAACGTGAAATTCGATCGCATTTGA
chr5	GCAGATCTGGTTGCATCTCCATT	GAATGAGTTGTACGAAGAGAGATGCAA
chr5	TATCAACAATTAATGAACCCACCCACATG	CGGTAATGATAACGGTAAGATGCAATTTTTA
chr5	AGATGGACAATGACGTTGCATTCTA	CGTGCTACCCATCCATCTTCTTCG
chr5	ATTCAAAGTATAGGGACCAAAGCTAACCT	TCTGACTTGAGCAGCTGAATTTTAGTATA
chr5	AAGCCTACCTTAGCAACGATGACA	ACACCACTACCTCTCACTCCATT
chr5	TTCTATTACGTTGTCTCACTCTCTTTTTG	GCCATTAAGGTGTTGGAGGCTTC
chr5	GGCCTCATGACTACGTAGGGAAA	AAGAGGAAATTTAGCTAAGCCACATTA

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	CAAACTGGAAGAAGCTCTCGAATAACT	CATTCAAGCCTGTTGCATTCCTACC
chr5	CATAACAAAGATAAGGCATGCTACGTTGA	TGTTTCATGTTTCTCTTTTGTGATTGTTT
chr5	AAAACATTCGAACCGAGTAAAACTTGT	CGAGAGGAGAAATTTGTGGTTATTGTAAATT
chr5	TAGTAGGACATCAAAGGAGACTTAACCAT	TTCTCAATTAGCCCTTAGAAGATAGACAT
chr5	AAAAAGAAAAGTGACATTGGTTGACTTCAC	AATGCATGAGACTTGACTCTTACTCTTCT
chr5	CGACGAGGATATGAAATTTGAGGTGA	GATGCTATGATTGAATATGGGCACAATTATA
chr5	GAGTGCCTTCTAGTCGGAGATTACT	CACTTAAGAGAGTAATGGTTTTAGTTCTGCT
chr5	CTTCCCTTCCCTCTTATACATCCATGG	GGACAAGTCAAGAACGTTTTCATAACACA
chr5	GCGAGGTTTTCCGTCAAAGAACA	GATCTACACAAGTCAACAAGTCAACAAGT
chr5	CTTTGTGCACGTCCAGATATGCC	GCTTGGAAAGGAAATGGCTTAAGCT
chr5	CAGAAATTTTCTCTTCATCAGCCAATCTTTT	TCCTAATACTAATCCAACCTGCCCTAAAA
chr5	GGTGAGATGCATCACAAAAGATTTCGT	AAAAGTGGAGGCGATTGAGACTTG
chr5	CCAAGAAGTTGTTTATGAAGAAACATCTGTA	CTACATTTTGATGGTCTCTCTCATCAAC
chr5	ATGCACAAGGGACACACACGTAT	TTGGAAAAACCTTAAACCACCTTAAA
chr5	CAATCGCAATACATAAATCTCATCGCAT	AGAATCCCTGGTCTAAGTGAGACAGT
chr5	ACCAAAATGACCTTCTATTAGGTAGTGG	AAAAATTAGGTCATGCTGCCTAGTTAATCTC
chr5	TCTGCTTTACGAATTACGTGACATCTAAAG	CACGTAAAAGTTAATTTTTCTCATGCCTA
chr5	CCAAGAAGCCTTTGAAATCTCAAGCA	CAAGAGGGTCTGTCTAAGTTCTTTACTTAAT
chr5	CGGATTGACTAGCAGGCGATTTA	GTCGTTGAAAGCAACCCGTAATCT
chr5	TGAAGATCATCCTGTGAAGGCATTTA	TATTCTCAACCCAAACAGACAAAAGCACA
chr5	GGGTCTACGATTTCTTGTCAATTCACG	AAACCATCAAAGATTATGTTGGACATCTCTA
chr5	CTCAATTTCAAGTTCAGTTGCGGTTT	TTGATCTCTTTTTAGTTACGACGCTCATT
chr5	TCAGTAGAGCTCATTCATTTGCTACTGT	GGTCATGGATTAAAGCAAAGAGTGGATTAA
chr5	CCTTCGTCTCGTTTCTCTACTAGTAAATG	GGGAAGGAGTTGAACTTACCAATGATTC
chr5	GGACAATAGGGTGTACAGCTTAAGGT	CATGGAGGACTTCTTTTGTAGGCTT
chr5	AATATGACGAATCATATGAGTTTGCTCGAG	ACAACCTGACAACGCAATTTATGAGACA
chr5	CTTCTTGCGTGAGGCCAATAAAAG	ACTCTTCTATTTGTGCTTTTAGCTGAGATTA
chr5	GATCACAACCTTCCATGGTGACAG	AGCTGGGATGAGCCTATAATAATGGTTAC
chr5	TAGTAGGAAAAGTTGGGTAATCCCACTA	CCTTTGAAGCTTTCCAATTCTTGTAATCTCC
chr5	TCCTCTATTGCTGAGAGAAGACGTT	CGATCGAAGACTTGGAAGAAATTTGGAA
chr5	GGCTTAGGAAAAGTAGAAGGTATTTGAGTG	GAAATATCTCAATCAAGTTGACACATACAAATA
chr5	GCCTCTCACGATGCATTTCCC	TACTCCTGTGTTAAGACACTAAAACACGA
chr5	AAAAATTGACATGATCTAAGATAATCATCAACGT	AGACTTACCACTTACCAAAACAAGACCT
chr5	TCTTTTGGGACATTCATCCTCTTTTCAA	TTTGCGGGAAGAAGTTCAAACACC

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	TAGTAAAAATATGTTGGCTTGGGAAAGGAA	AGTTCCATTAATGACATGTGGAACCTCTG
chr5	TGATACTAGACAAGCAATCTTACATTTGCAT	AGAAAAGATGTTGGTTTGGGTGAGTT
chr5	TTTTTATTTTATATTTTCGAATGACCAAGCACAA	TTTATGTAGTTAACTGCATCTACGAGTAGAGAG
chr5	GATTCCTAATTAGCGAGTTCTTAAGCTTCCTC	ACATTAACACATGCCATCAACTCAAACA
chr5	TCTTTCTACTTAGCTTGTCATTTGTGAGACT	GTATAGCTTGCTCTTCAAGGTTTTAACTTCG
chr5	GGTTGTTGGAGTTACTTTTTGGAGATGA	AACGATCTTTAACAAAAACTTTGTGTGACTA
chr5	AAGCACACACCTTTCCCTTCATG	GTGGTTGAGTCTACCTTTATTTCTGTGTTG
chr5	CAACCTGAGGCAATCAGGAACAA	GCTGGGTAGCGGAAAAGAAGTATTTAAAA
chr5	TGTCAATTGAACCACGATCATTTTAGAGTAT	TTACCATTGTTTTTACAATGTGCGTGAAC
chr5	GTCCAACTTTTTCCAACATTAGCATTAAGTT	AACTATATGAGAAAATACAAAAAGGGTACGTT
chr5	ATTTGAAAGTGATGTTAATACGACGAGAAAA	CAGACTTTGGAGGATAGCCCATTTG
chr5	AAGGGTTAGCTTAAAGCAACCCTTT	GTCCACGGTAGTTTCTACTTTATATGCA
chr5	TGAAACATGGTTGGGCTTGAAATGG	AACAAAAAGACGAGACTTGTCTAAGGATG
chr5	GCAGGCAGGAGCTCCTTTTAATT	AATGCCCACTTGAATTTCTCTCTCAAA
chr5	CACAAAGCACAAAGGTACAAGTCAA	TTTGGAATTTCTCCTAGATTGTCGTTGAA
chr5	ACATATGTGCATTTTTAGAGTCAGAGACATT	GGTGGAGGGTTTAATAAGGAGCAATAAGG
chr5	TCGTTCTCTTAGGAAGTTAGGTTCTCAG	GAAGCACTTATTGAAGAGATCATAGACGATT
chr5	TGAAAACCATGTGCCGTTTTTCATGC	CATGTTTCTGAGGCTTACTTAGGTAACAAA
chr6	CTGAGGCTCGAATAAGTGCCAAG	GTGGAAAATATGTGTGTAGGTAACCTCTGAAA
chr6	ATGTGTCTGCTATCTATGTGACCAACC	CAATTATTGTTGCATCTTTACACGCTTT
chr6	TACTAACTAACTATGGTCAGTTTCGATGGTG	TTGAGTGGGTCTTCATGAAGTTTGTA
chr6	GCATACAAAATGGGTATATCTCAATTGCAT	CCCGTGTGCCAATAGGAAAAAA
chr6	GGTCACGTTTATTTGGCCTTTAACTTT	AAGCGACCTCAAAATTAAAAATGGAAAAGAAA
chr6	CCTAAACAAATAAATCTATTCGCTAGAGAATCTA	CGTTTCTTTAATGTCAATTTGAGTAGTGTTATTG
chr6	CGTTTTGTAGCTCAAACGGCTCTAT	TTCTTTATCCTCTTCTTGTTCAAACCTCTCA
chr6	CAGCCTATTGGTAGGAGTTTGAGTG	GCTTGAAATGGTCATTGATTAGTTCAATCAA
chr6	CCACCTCAATATATCAAACCTAACCAC	CTTCTTACAACGTTTTGTATCTAACACGAAT
chr6	ACCCTGCATGAAAATCAATTCAATGTCA	CTTATCCACAAAGGTCATATTCAGCTTTGG
chr6	AACGAAACAGTTATCAGACAAGGTGTG	TGAAACATGACGGAGAAGAAGGATTCA
chr6	GTTTTGTTTGTGGCATAAAGACAGGTT	GTTCATTATTTTAAATGTGGGTGTGAACAA
chr6	TCTTTCATTTTCGGTCTAGAAGTGTAACCT	GTCGCAGCAGCAACAACAATGGC
chr6	TAAGGAAGACTAGGTAAATGACTCAGGTTG	ACTTTCAATCACACAGTAACTAAATAGCCAA
chr6	AAACATAAAAAGCCTTAACCTAAAACGAACTCT	AAACCTTGAATTAAGGTTTTGGAGGC
chr6	TGATAATGCAAAAGGTTTGAAAATGTCAAT	ACCTCTTAGGTCCATCAGCATCATC

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	TCTACATTTTCCATGATTGCCACTGTT	GACAACTTCTCAAACCTTTTCAAGCCAAA
chr6	GAGTTTGGAGGGCAATATAGATAAGATTGAA	GAGCTGATCTGCATTTTGATTGGGC
chr6	TCTGATACAGATCACTTCAGGACTAGTTTTT	TGGTGACAAATGCTTCTCCTGTTG
chr6	CGGGACTGCAAATTTGAAAGGTT	TTGTTTATAAGAATGGTGCAGATGACTTCTA
chr6	TGTCCGGTGCATCAATTGATATGTC	GTTGCTCCTTCTTACCCTTTCTCC
chr6	AGCATCAAAGTACACAATATGATAACAAGAA	AGCTTCTCTTCTTCATTTTCAATTTTCCACT
chr6	TTAGCTAAAAATGTAGGAACAAGAGTCGTC	GACCGTCTCGATAAAGGTGAACTTC
chr6	ATTGTCATTCTTGAAGGATTAGAAGCCAA	GTTGATTTCTTTGAGTTGATTGTTGGCTT
chr6	GCCTAGAAAGGCCTTACCACATT	CGTCCAGTGTCAAGGGTTTCTAGG
chr6	AAGGCTACATTGGTTTCCCAAGTG	CATGATCTTCTGGCCACCATAAAAACA
chr6	AGAGTTAGGCTTCCAAAAACCAGTA	AGTCTGAGGGTCTGCTAGGATGG
chr6	ATTTAGTTGAAGCCTAGTTGTTTGCTTTTCG	GAAAGGCAGCGAATCAACCATGA
chr6	GAAGTGGTCTCACTCAGTTGAATCAA	ACGTAGCTTAATTAGTTTGGTCTAAAGGACT
chr6	CTTAATGTCTGTTTACGGATAGTTTAGGAG	GGTTCATCCTCTCACTCCTTGGAA
chr6	AACTTAACCTGTCTTAAACATACAATGAAAACATG	TCCAACATACTCAACTCATGATTTCCAAATAT
chr6	TGCACGACGTTTCATATGTTTTTGCT	CTTTTACTTCTTAAAGAAGTAGTTAGCAAAGTGA
chr6	CGTCGTTGACAAGCCTTCATATGT	CTTGGATTGGAGGGAAATAGCTAGGC
chr6	CACGATAGTATCTAGCTCGACTTACCAT	TGGCTTTAGAAATATAATTGCAAGAGCATGA
chr6	CATCAGGAAATCAAAGTAGACTCACGTC	GTTTGAATTGAAGCTCTTGATGTCGATTTAT
chr6	CATTGTACACTGTTTGGAGAAAACACAA	CACCTTAATTGTCTTACATGCACC
chr6	AAATGATCATCGTGCAATTAAAATTGAATTTTGA	GGTTGAATGGATGGTGGATTTTATTAATTTTGG
chr6	GCGTCCAGGATTCTAGATCTTCGA	TAACGTACTGACATGGATGAAAATCCAAC
chr6	GACAAAACTAAATGTACACAAGCAGTTGA	CCCTAAGTCTGAGGTCGAGATTATTTATCAC
chr6	CTTAGGGATCTAGAGGAACTCGATGTA	CACATAATGTAGCTTAAGATGCATGTTGAAT
chr6	CACTCTCTTTTGGCGATTAGGCTT	CTGAAAATCTCTAATGACTAAGGAGGCAAG
chr6	TTATCTACAGAGCAACACCTAGACCAT	CAATCCCGATGGCTTCATTGTGA
chr6	GCCTCCGAGTAATCAGACTCCAC	TTCTCTCTTGTCATCCTCTCGATT
chr6	CGAAATGGAATAACAAAAGGGTAAGAAGACA	GATCAATTTTCATCAGCAGTCTTAAATCTAACTT
chr6	GCCTGAGTTAAGATAGCGTATTTTCAATACC	TGCTCATTTCCAAGATTGTAATGTTTATGCA
chr6	TGTGGAATTGTCGAATTCTTATTGATTGACA	GCAAAAATAAACGGTAAATGGTCTACTCTTC
chr6	CTTGATCAAACCTCTCAATAGGTGCAG	GAGCTCTAGCTGCACCTTTGAAG
chr6	TGCCCTCTCTTTTAATTTTATGTCATCAG	TGAGACAAAGAATTGTTAATGCACAATGGA
chr6	TGTTGCTCTCAATTGTGTAGTGATCAA	ACACCATCAACATCCTATAACTTATGCCC
chr6	ACATTTTTCCTTTTCTTTTTCAGTTTGGGAT	CTTTCCCAGCAACTCTATTTCTACAATTTCT

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	GTCTGATAGACTTCTTCCATCTTCAAGCA	CCTTTGATTTTCTTGAGAAGAGAAAGCATGC
chr6	ATGGTTGTGATCGTGGTACGAAA	GTATATCTTTGGCAATAATTGCTCTTTGCTA
chr6	TCGAATCTAAAACACTCAGTCAAAACATGAG	TTCAACTTCTAATGGGAAGACTTGTGAGA
chr6	AAAAACCATTTTTGGACTTATGCTTTGTTTT	AGCATGTTAAACCTTTGGAAAGATTCTTGT
chr6	CTTTTTGTAGAGTTTTGGGAGACCCTA	AAATTGCTTATGAACCTAACATGTTTTGTGTAT
chr6	CTTTTACAGCTAGTTGTAGATGTTCTGGTG	TGCTTGATCTAGCAACAGGACAAGT
chr6	TTAATAGGGATACAACCTCTCCCTTCCTTG	TAGTTGACCTCATGTATACCAACATTTGGT
chr6	CCAAGAAGCAATCTCCGAGCTAA	GAGGAATCTTTCTTGGTAACTCTAGAAACCT
chr6	AGAGAGACAAATGAGAAAATTAAATTTTTACAC	AGAAACACAACCTTTTGTTTTATTTCTTTTTGCT
chr6	GTCACCTAGTTTAAAAGTATTTTTCGTCACACC	AGGATGAGTGACCATGATGTGTGT
chr6	CCAAGGCCAACTTGCAATGACA	GGGTGATATTTGCTTATGACGGTTGAG
chr6	AGATTACACGCTACTATTAGATAGACGCAA	CATTCCCAAGTTTGGACGGGATATAC
chr7	TATGATATGGATACTTACTCCTTCTTTTGGAGTC	TCTCCATATATAGGAGTTTTTAAGGATTACTGTA
chr7	ACCGAATAACAATCGTGTGATGGTT	GGAAGAACAATAACTTACTTTTGGAGGGAAT
chr7	CTACGAGAGCCGCTTTGTAGAAT	CCTAAAATACCAACATGAAAATGGTCGTC
chr7	ATGGCATGGACATTTTCCTTTTCTTTATCA	GTCCTTTCCCTTTTATCTTTTCACATGTTTT
chr7	TCATTAACCTCAAAAGAACAATGAGAGCAC	TAAACAAAGAGTTTGATCCCAAATCCCTC
chr7	CTTCACATGGGAGAACTAGAAAGCAA	TCTTCATATCATTTGTGTGATTTCCACCTA
chr7	AGGTTGCGTTTGATACTTTCATAAACGT	ATGTGATAGAGCAACCTAACAACCTAACCT
chr7	ATGGGCGACTCAGCTAAATCTTACA	AAGTCGAGCCTTGTTATAGCAGTCG
chr7	GTTAGAGAATCTATATGCTCCCTGAATACGA	GAAAATGTTGGTGATGCAAACCTTTAGATGAA
chr7	AAATGATTCAGACACTTATCAAGGATTCACC	GCAGCTTTGCTTTGGTATGAACTAAGA
chr7	CCACAAGTTGACATGCATTC AAC	AGAAAATAAGTATATGGCTGACTCTCGAGAC
chr7	TCCAATGGCTTTGTGGGCTAAAA	CACCGTCATCAGTGGTGTCTTGTG
chr7	TCTTGATAACCTCCCATCTAGGCAAG	TGGACAAAGTCGATGGCTTTGTG
chr7	CTGGAACAAGGCAAAAGCTTGCTT	GTGGGAAGGATTTCTCAAGGACAC
chr7	ACTCTGAAGTTTTGCAATTGTATCCTCTC	CCCTTCTAAATTTTGTTCGGCCAATATTATG
chr7	TGAAAGGCAATGCTCTAGCAGTT	CCAACCAACCTCAAGTCGATTAATCTG
chr7	ATACCACCTCAAATTCATAATATTCGTACCAAA	ATCAGTTTGAAGCGATCTTAGGTTAGGT
chr7	CCTTCCCTCGATGTGATGTTCAA	ACATAGATCCCAAAACGCATCGAC
chr7	TCACTACAAGCAAAAGCAATTTTTCGAT	AGAACTCCAGATGTTGTTAAGAAAGGTGT
chr7	ACGAACTTCGCGAATAGAGAGTGG	TGCTCCGTTTCAGATCCACAATCC
chr7	ATTTGTTTCTGGTTTCAACAGAGTTAGATTA	GGTGGCTCAGTCAAGATCTTAACCTATAT
chr7	GCTATTGAACTCTCTTTGCTTGAGGAT	GGGAGGATCTTAAGTAGAGTCATGCAT

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr7	CACATTATGCATATTGGCTACAATAATGCAT	AGAAAACCCCTATCAAGCAAATTTGTTCGC
chr7	GAGTAGCATATCATGATTATCTTCAGCGATA	TTCCCACCAACCAAGTCAATATGAATC
chr7	GGTTTCCTCTGAATCAGGTCTATTAGAGC	TCATTCGAATCTTCAAGCCCTCAAC
chr7	CGTTGAGAGTCTAAAGTCCATGCTT	GTGAAAGAGCGAGTACGTGTCAT
chr7	ATTTAGTTTGTACGAACACGAGATCGATA	GTGGCTAAACACATGAGTTTTTGTTTTTCA
chr7	CAAGTCGGCCAACTCTGTGTAAA	ACTCCTGAAACCTCCCTTACCTTA
chr7	ATTTCTGTGTGACCTAGAGCATACATCC	TTTTATGTCATAGCTGTGGGACATTTACAC
chr7	TGTGCGATCATGTGAAGCTTAGCAT	GGTTTCTCATTAGGTCGTGGCAATA
chr7	CTTGCTGTTTTAACTGTGCAACCAA	GGGCAAGTAGTGGAAGAAAAACATTATCC
chr7	AATTACAAAGCTCAATTGGTTCCATCTTGT	TATGACTACCCATTTTGATGCAACGAG
chr7	ACAAAATGTCATGAACTTGGAATTAGATCACC	TCTACCCACTAGCCTTACTATTTTTATTAAGCTA
chr7	TCACTGTAAGCAACCTTTTACTAACCAC	ATCCTACGTTGAAAAGATTAAGAGATCACC
chr7	GGATGGATCTTGGTCATGCACTA	GGCATGAACCGTTGACAGAAACG
chr7	AAATGAGAATGATCCATAAAAAATCCAATAAAT	TTTTTGTTTTTAGTTTTTTGAAAAACCACCC
chr7	GAGGTTTCAAGTCAAGCATAGTGGAG	CCAACGTGTTTTGGTACATTTCTCTGA
chr7	TTGTAACCAGAAAATTTGAAGCAGCAAAT	CTTTAGAAATGTTTGTGCTACGAGAACC
chr7	GATTCCACACTTTATGCTCAAAGAGACA	AGTTGAAGATGTTAGCCTGTTTTATCCCC
chr7	CTCCTGCGATAAGGAACGTAAGTT	ACAAAAGATCTTTGTTTTGAGTCTACCTGAC
chr7	GCCAAAAATAGGCTAGATGGCTCAC	CCATTCGTCGTTGGAGCTTCATC
chr7	TGTTCAAGTTCATCATAAGCATTAAGTGGAA	AAACAAAACCTTTTGGATTGAACAGACATGAA
chr7	ACATATCGTTAGTACAATTTTGGGTTGAAATGA	GGCAATCGATGTGATTGTTCTAATTACCA
chr7	AGTGTGTAGAGCAAACACCACAT	CATCAAAATTCTCTCTTCCAGCTTTTGATTT
chr7	CCAGGTCTTATAGTCATATTTGGAACGTC	GATGGTGGGAAAAGCTCCTTTTGG
chr7	TCAACTTTAACAACCACTTTCACACAACC	AGTTATCGTAGTCCATAATTATTGTCACCG
chr7	CATTGATTAAACAAATGCATTGTTGATTGCA	ACCCAAGGGTCTTTAAGTTCTTCCC
chr7	TAGGTGAGAATAACACAAGACATGAAAGTGT	TTGAGGAAGATGGCAGGGAACCATG
chr7	CATTTGAGTTGACCAAGTTGGATTCTC	GCACAAATTGATGTTAGATGGATTTGTTGTCTG
chr7	GGACTAACGTAACCTCATGAGGCAAG	TGTTCCCTTCCCTCTTTTTGAGTCT
chr8	GGTGAGCATTTGGTTGAGTAGCAT	CTCTTATCTTCGCCGTAGCTCAAAG
chr8	GCCCGAAGCATCAAACCTTCAT	ACATAAAGGGAATGAATATTATGGAGCTAAAAAC
chr8	CCCTAATTGTTGCACAGAAAGGTTTC	TTCTTCTCTAATGCTCAGAGTAGTAGGA
chr8	GTGCAACCAACAAGGAGAATTAGACA	TTTTCAAAGTTATTTTCATTAGTTTAATGCGCT
chr8	ACAGATCTTACTGGAAGACGTTATGGAA	GTATAAGGGACAGAGAAAGAAGATCGTCA
chr8	TACACCTTCGTTATCATTCAAAATCATTCATCTA	TTCTTTCTACACATTGCCGTGCTAATAG

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	GTTTTGCTCTTCACCAAAGGGTTA	TGCTAGCAATTGTATGCTTCTTCCTT
chr8	TCAAAGTTTGTGTTTAGCGGTTGTTAAAT	GTTCATCTCCTAAGCATAAATATCTCGCTG
chr8	TCTTATGTTGAAGTTCTTTTCGTTCAATGCT	GAAATCCATGAAATGAGGATTGTGGATAGAG
chr8	GCATCAGAATCAATGGGTTTGAATGCT	AATCGTGTCAATTCTTCCTGTTTCAAAAGA
chr8	TGTACAATCGAGCACTTTTCAAGTTGTAC	TGATTGCCTACTAGACTAAACATGTGAACT
chr8	TGCAATCTCGACAAAATTGAAGAAATAAGT	CCTTTACTTATTGGATCTTGGGCCTTAG
chr8	TATCATTTATGGATGATCTTGGACCAGAAGAT	CGTGACCTAACACCTTCTTTTATCATATCTT
chr8	ATGCTTGTGATTAATAACTGTCAGGCTAT	AAATGCATGGAAGACCAAGGAGTG
chr8	GGAAGATACAGTGGTTCAAATGCAAC	CCTTGTCATTTAAAGGTCTTCTTGGGTTG
chr8	AACAACTAGAGAGTCCAAAGGAAGAAAATA	TCATCACAATGTATAGTATAGTGAACGCT
chr8	ATGGAAAGAGTGTATCTATTACAATTGAATTGTA	TATTGATGTTTATGCTGCAAACTAATGGTGA
chr8	CGGGCTGATCTTTCCAAAGAATCG	CCCTGTAAGAACAACAAAAGGAACAAAGT
chr8	CTGGAAACGACTACAAGAAGAACGAA	CTTGTTTCGTGTGCATCTCCTTCC
chr8	AGAAAAGAAAATAAACGTTCTGCAAAGGAAA	GATCAGCTTAGAGCCATTACGGAATG
chr8	AAATAGAATTGAAAGTTTTTGTAGCTTGATTGAG	AGGTTGAATATCTGATACCCATCCATGTAAT
chr8	ATCATTAAGGAGAGCAATCTTGGTCAA	TAAGGAAGACCACTCACCGTCATAAT
chr8	GGAACATGAGTTGTATGCAAACATGAA	GTGCTTCTTCCGACTATTGATATGCTC
chr8	CTGCGGCTGACCGAAAGAG	ATCATAAATGTTTTTGTATTTTTGCAAACACCC
chr8	ACAATCAACAAACCACTACAATCACCTAT	TCATTGCAGATTAACCGAAAAAGCAATG
chr8	TAGGAACAACTCTCATTTCTTCTTGATCTTTG	AGGTTGATTTATGTTAGATTTATTACATTGGCTA
chr8	AGACCAAGTGGTAAGAGGAAGATATGAC	CATTGATTTGGGCCTTGAGTGAAGC
chr8	GGTGCACCTCGATCAAGTGTTCAG	CATTCAACTGGGAATTCTGACTCCTAC
chr8	AAGTTACAGATGGCTATGTTGTCAGATTT	GTGACAATGATGAAGGATCATGTCCTAG
chr8	CCTCAGACAATTCCAAAGTAAGTTGCT	GTGCGATTGTTATTGATCTTATTGCTAAGGC
chr8	CAATTAGAGAAGTGGCTTCTCCCAAT	AAACATATACTCATGCTGTAGATGTGCATC
chr8	GGGCTTGAACCAACCTAATCCAA	CCCACAGTTTGACTCACTTTGAACA
chr8	ACTCTTTGTGTAATACAACCTTGTATGTGTA	TGCCTCTTTTATAGGCTTTGTTTCTGTG
chr8	GGTTGCCACTTGCCTCATACAAT	GGAATTAGGTTCTGGCCGAGAAATG
chr8	TCACGTGTCACTTATCACATCTTACTTGA	ACGGTGAGACCATGATTGCATTC
chr8	GCAITCAATTTGGAATCCCTTGTTTAGGC	AAGGGCATTTTTCCCTTTAAAGGCC
chr8	AATGGAAATCACATTTCTCGAGATTTCAGT	TAGGTGAAATCTAGCCATTTTGATGCTATTT
chr8	GCTACTCAAACGTACAACTAACGACA	CCAAAGCATTCCTTGAAAACGTTGTGG
chr8	AACATAATCATCATACTCCATGATTGTACATA	GTAAGCAAATGGTAGAATTAAAGTTGGATTGTA
chr8	TCTCTCTCTGCTATCTAAATGAAATCCCAA	TGTAGGTCACCTTCAGATTGAGAACTATG

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr8	CGACGAAAACCTCTGTGTTTATCTCT	AAAAAGTAAGAGGTACCTGGTTCTTATGGT
chr8	TGTAGTGTTCGACGATTTTAGGTAAGTG	AAAATATCATGCTTATCAATAGTACCCAATCAAA
chr8	AATTGTTACATAGGGAGAGAGAAAGTTTAAATTT	GGGTCAAGCGTACAGATGAATGTC
chr8	GCTTAACACTCTCATCGTCTTCGTC	CGTTGCTAGGTATTAAGCATGAGATTTTA
chr8	GCTTGCCATCGTTGTAAACCAAG	AAGCACCTATTTGTGCAACATGTGCA
chr8	AAAAACAGAAAGGTTCTTTAGATGGGTCTT	GAGAGGAATGAGAGTTTGTGTCTTGTA
chr8	TTGTGTCTGAATCCAAGTGATATGCTA	CCGCTTTGTTGTCTTCGTTTGTGC
chr8	GCGACTCACGAAGAATCCACTCG	GCCTGTTTCTTTCTCCGTTGTTCA
chr8	AGTTGGTTCTAGTACTGTGGACTAGATGC	GTGAGAACTTTCATGCCAGAATGATTATTC
chr8	ACTTCATGCTGAAATCAACCTGATTAGAA	AGTTTCTATACTAAGTCAAGCAACAAAGTAT
chr8	CAAGCATAGCCTCGTTAAAGAGGTT	GTGTTGTAGGGATGGAAGAAACTTCT
chr8	GGAAAAACCAAAATGAGGACAAGCTTA	TGATCTTCCCATTTATACCAGTCTATAGCTTT
chr8	AACTCATTCATGCTACTCTTAAAAAGTGGAC	AGTTACGAATTTGTACATTTACGACTACAA
chr8	GGTCTTTCAGAGCGGCAGATAGC	AATCTTATCAGCCTGCTTTCTAATCATTGAT
chr8	AAAGTTGACAGTTAGCCCTCAACAA	ACATTCATTTCCAACCAACCTCCAAC
chr8	TCACTTGATCAAGTTCTCCATCAATAGCC	GATGTGCCCTTTTCTTTTATCCAATCAGAAT
chr8	CCTTTGTGCAATCTCAACTCCTT	CTTTGTAGAAGGAAGCTTCTTCATTTGATGA
chr8	CTTACATCTATCGAGAGTCCACTAGCTA	AAAAATATAGGGCACAACGTCGCG
chr8	TGCAAAACCAAAATGAGATTTGTATCCTA	CTCATTTGGTTTTGGGTGGCATTC
chr8	ACATCCCAAAGCATATCACTTTTGACAC	GTCATAGATATTCCTCTTGATCCAAATGGTA
chr8	CAAATTAGGCTCTCAATTGATTCACTTACGA	TGAGCAATAATAATGCATGCCTCTATTCTTT
chr8	CGTCGACTCACCTTCAAGTCCTAA	TGAAAATAGCATGCAGTTGGTAATTGTTGG
chr8	AGTAATGAGTTCTGTAGCCTTAAAAACCTT	GCATGCAAGCTTTCAAATTATGACAAGTAGA
chr9	TCTTATTAAGTAAAAGCTCAAGAGCACGTTT	GCATCAGTGAAGAGATGATTTCCAC
chr9	CCCAAATGTAGGAGAGGGAAATGTC	TTTTTATCTTCTATTGTTGGAGGGTAGCTAT
chr9	GAGCAAGAGGCTAATGTAAACGAACG	CGAGGTAACTTTGATCCAAGATGAATTGAC
chr9	TCTATTTTACGAAACCGACATTTGGAGAAG	GGGAGGCAAGTATCTATTTCATTCCTCA
chr9	CCCTTTCCAGTCGCTCAATCATA	CAATCGAAAAGTAAAGAAACGCACCTTAATA
chr9	GACTCATAATCTCTTTGGTCAAACAAAGAGT	CACAAAAATAGCAAAAGCAAGTACAACCC
chr9	GACTACGAGTTTACCTCTTGTGTAAGGT	GGCCCTCTCATCCATTTGGCC
chr9	CTATTCTTGTCTGACAAGTGATCTGAA	CCCAACAAACGGATCAATGAAGTAATGT
chr9	AATAAAACCGATTCCGATTGGATTTTAAGGA	GCAGCCTGATTCTTTAAATCCTCAAGG
chr9	TGTATGCCGAAGCCTATGCTTTA	TCGTAATTTGTATGACCTTCGCCATTC
chr9	AGCCTCGACATTAATTTTGTGCTTAACA	CTGAGGGAAGTTAGTTTGGGTGAG

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr9	GGTCAATGTTGAGCGTTTCAATAGGA	CATATCACCTTCCATGGCGCTAAA
chr9	AGGAGGTGATTTGAGAGTTTGACAG	CCTATCATTTTCATGTTGGAACAGTTTCTTG
chr9	GTTGGCTCGAACGAATAGAGATCTC	GTCAAGGTGAGCTGAACCTCATTG
chr9	GGAGGACGTCCATGGTATTAACCC	CGAAAGAGAGACCATCCTTTGGAC
chr9	CCCTTCTTTTGAAGGATTCATCCTTGA	GAGACCCAAAAATGTGAGTTAGTTGTTTG
chr9	ACCTATGCTAAAAGTGAAGGAATTGACTTT	ACAATTCTCCTTGTTCGAAGCTAGTG
chr9	CGAAAGTGAGATGCAAGTAACGTTGG	ACCTTGTTTATTTACCTGCCATCTG
chr9	CCACCAACCTATTGATATCTGAATCACAT	TCCAGGTTCGAATGGTCTCATATTTTAAATT
chr9	GGTGGATTCTAGCATTGTGGTTGAG	AAACTGGATTTCCTGCTTTAAATCTACCTA
chr9	GGAACCGAATCTCACAGATTAGCAA	CGTGAGATCATTCAATCTGTGAGATTCTGC
chr9	TCAAGAAACAGAAAACGGAAATTATACTCAAACA	ACCCACATAAGATAACATGTGAGTAGAGTC
chr9	TGTGTTCGGGTGATCCGAAATTTTC	TCGCAGTGCAAAGAAAAATTAAAGAACTTAA
chr9	TAACATAAAGTGGGTTTTATTCTAGCGTTA	GGGCCTCTGTGACTAAAGCAATAGA
chr9	GGTTACACTTAGCCTTTTCCATACCAA	TTTGTTCATTAAACTTAAAGGACATGGTTTC
chr9	GGTTTGGTGTTCAGTGTTACTATGCC	CCTGGAAAGAGAGAAAACATTTTGAAAGAGT
chr9	TGTGGGTATTGTTTTGCAGGGATG	GATCTTCATCGCTCATGTTGAATTTCTTAGA
chr9	GGCTCGTTCCCAAGAAGGTAAAT	CCTATTCCAACGAGACTGTGGGATAG
chr9	CCTACTTGCACTGTCGGAAGAAA	TCCAAACGCTTATTGAGAAGCATTGG
chr9	TGTTTCGTGAAGTGCAATTAAGGACTA	TGCTGGCAGAGGTAATACTATTTTCAAGA
chr9	TAGTAGTTTTGTGACACATTTGGGTGAA	GAAATACTCTCAGTAAAGGCATTCTAGGACA
chr9	AAGATTTCAATTGGACAGGTAAAAGGGAC	CTTTGTGAGTAAATACTTGTAGAGTGCTTCT
chr9	GCATGAAATGCGTAGCCTCTGAAA	ATCGGCTTAAATGGGAATTTTACAACTGG
chr9	GGTCAAGGACGACTTGGCTTG	TGCAGAAATGTCATCACCATCGAAG
chr9	GCATGACTTGTGATGATATTGTGGTG	AAATCCTCCCTAACCACATTCCAAGC
chr9	AATTCATCGTCACCCATCAATTTAACTT	TACTGTGGCCAAGTACAATAATGGC
chr9	AAAGTCTAGGCTCCCTTTTAACTTGTTG	GGTTGCTTTATGTACAATTGGAAAAACCTAG
chr9	AATGGACAATTCTCTAATAAGTGCACTATTG	ATCGCACTTATTTTACTTCTTCAAAGCACG
chr9	TACAAAATCTAGTACACAAAAGGAATCTTAGCCT	GGGTAGAAAAATTAATTTTGTGTGAGGTTGCATG
chr9	GAGGTGAGTTTTAGGAAGATTGTTTCGTA	TGAGCAACTATATAGCATACGTGAAAGGC
chr9	CGAACAAAGCATGATTTGTGACTCAA	GTCCCATATACAACATAACAAATGGCAAATT
chr9	TTGATGCCTTTTAGAACTCGGTGAAT	CCGAAAGGTTTAATTTCACTATTCAACCAA
chr9	ACAATTAGATGGTATCATGTGATGATGGGC	TTTTTCATAAAAGATTTACTTCTTCGAGGAGTTT
chr9	TTCCAGACTTGATGCTAAGTTTTCCAA	TGCAAGTTTCAGTGAAGTTTTTAAGTCAAAT
chr10	ACCCAAATTAATGTAAAGTAGAGAAATTAGAATGGT	GCATTAACAATCATAACTTTGGTTTGGATACTT

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr10	TCAATTATCAGCTAACAAGTGGCCATTG	TGTTAGGATAATTGCAACGGTTAAGGTTATT
chr10	AGAGTTTCTATCCAAATTTGGTCAATTTGTTCA	ATGAAACTTTTATCCGTATACAAATCTACAACCTT
chr10	ACGCCTTTCATGTCTCGTTTGATA	AATCCCAAATTTACTTACAACCTTGAGGAG
chr10	TTGAGGAAACAAGCTGCAAAGTTTAGA	CCCTTCCTCTCTAACAATTTCTGTCTATTTTA
chr10	CGTTTGATCCTACCCTAGAGAGTCTT	TCAATTGAGGGTAAAAATTGCAACATTTGTT
chr10	GATCAAGACACCTAGAATGAACGCAG	CTATGTAGTTGAGTTTGGAGTGGGTTT
chr10	GGCCGTTTGATGTTCAACTGATA	ATCATCCAACAATAATATGAACCCGTCTTC
chr10	CGTGACTATTGGAAGTTTCTTGCGAG	GCTGTGACCAGATATACTCATTTGGTTTAAAT
chr10	CGGCGTTTTCCTATTCGTCTAAACA	TCTTTTGTAGGTGTAGCCTAACATAGGTG
chr10	CAAGATTTCAATCTAAAGTAAAAGGCAACTTCAA	GAGGTTTTCACCAAAGTTAACGCCA
chr10	AAAGCCCCAAAAAGAATAGTAGAAGGATTGAA	GTTGAGGCCCATCGACCTATTTTG
chr10	CAAGAAGCTAAAGATTTGAATCTCTACTAGGT	AAAAATGGAATGGTCAATATTGGAAAAAGTAACAA
chr10	CGGCTAAAGGACACGTGTGTG	GAAGCCCAGCCTTAAGATCGTC
chr10	CAAAATCTACTCACCTGAAAAATCCAAGCC	GCTATGTGTTGGGCTTTTGATGCG
chr10	CCCTTAGATTTCTTCTGAGCAACACTG	TAGAAGCTATGAATGAGGAAATGCAATCAAT
chr10	GTGTCAATTTATGGCGTCGTTTCAT	CACAACTACCGATGTTCTTTTCAATGC
chr10	TGATGAAATAACACAATTTGATTAATGGCTC	CATTTGGCTACGTGTAATGAAGATTGGT
chr10	GAGATGAACGACGATCTGCGATA	GTCACCATCTTCTCTCCTCCCAAAC
chr10	GAAGTGAGGTTAGAAGAAAAGAAGAGGG	TCAGGAGTTGGATTTTGGATTATTGGAGA
chr10	AAAATTCCTTAAACCACCAAAATAGCCT	ATACGACAGCACATGGCCAAACG
chr10	AGAGAAAATTTTATTGACCTTGGGAGAGAAT	CTCCTTAAAGTTGCAGTGTTCGAAAAC
chr10	TGTAGTTGGTTGGCTGTGTGAAT	GGAATGTTGGTATTGTTTGCTGCTTC
chr10	AGACATTGACAACCTTCCTTCAATTTTATTTGA	ATTTAAAGCACTTTTCGAGTGTACATTATAAATA
chr10	TTGGACTTTGAATTGGCCTAACTACTA	CCTTTTCATTTTCTCCAATTTTCCCAACTTT
chr10	AATGGACTTTTATTTCTTTAGAGTTCTTACCCC	TACGTTTTTATGAGTAGGCTTGATTGGAAG
chr10	CCAGTGCCAGTCGTTGTCATATC	GACGAGCAAGGTGAATCAAGTGG
chr10	TTTGAGGCTATGGAATCCATTTTCGATA	AATCCCTTGTCTAAGCTGTCTTATCAATCC
chr10	CCAAGGCACAACGAAACATAACAAAATAA	TTTGTTGAATCGGGCTGGGTAAAG
chr10	GACACAACCTCCTTAGGCATTCTGAA	GCAAGCATTCAACATAGAGGAAATTTCAAAT
chr10	ATAAACCACACCCGTACCACAAAAA	CTTCATATCGTGCCACTTAGAACACG
chr10	CGCCTGAGCTGACAATTTATGGC	GGGTACTATAGGAGATCTGTAAAAGGGTATG
chr10	TTTGATCTTCAATTAGAGTTGTTTGGTTGT	TAACATCTCGAGTGAGAGGATGTTGAAT
chr10	CTGCCTCTACCTTTCCAAGAAGAAA	TGGGATTTTGTGCTCAGATCCAACCT
chr10	TGTTCCCGAAATAAGGCATCGAA	GGGCTGGGCCATATGAATGATG

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr10	ACTTTACAATCCGGAGGTAAGTCTACTAAG	AGAAGCTGACCTAAAACTAGAAGAAGCA
chr10	GTAAAAAGTGGCTTCAAAATGATCGAACT	TGATAAAGGAAGCGTATTGGGAAGTTGC
chr10	ACCTTCTACTTATAGGACTAATGCCATGAA	GCTTTAACACGCTCTAGAACTTGCAAAATTG
chr10	TGCAGTCATTTTCTACCCAAGTGTC	TGATGAGTAGTTATTCTGCGTTGAAGAAAAG
chr10	TGAATATGCGTGATTTCATATCTGCATGAT	CAACTTTACCCTGAGTTTCAAAATCATTTGTT
chr10	CGTGAGTCCACTGACTCTTTGA	TTTTTGGCCTCCCAGGTTAAGTTAATT
chr10	AACCGCCAAAGAACCAACTCTAG	AATAGGCCTTG GTTACGTGCATTAC
chr10	TGCGACATTGTATTGTGATGACCTT	TGTGCTCGATCATGGTTAGTCTTAAGG
chr10	GTTTGACACCTCAATGTTGAAAATGAAGAG	GTTATTACCTTCTTCTGATTGTTGCTCC
chr10	GGATAGCTTAACAACAGAGCCATTTAGAA	GCCAAGAGATTTAGAGAAAACAATACCGATA
chr10	ATGAGAATGATGATGGCAATCTCACAG	TGAGACCATTTTCTCTTCTTGTGATTTGAT
chr10	AGATCTGCCAATCCTTGAATGGA	TATGACGTTGAAGGAAATCAAGATAGAAGGT
chr10	CGTACTTGACGATGTTGGCAATAACG	GCAACATAAAAAGTGGATCACTACAAGAAAAA
chr10	TAACCTTCCAGCTCTTAGTTGCAAGA	TCCTGTCTAAAGTCAAATCTCAATCAAGGA
chr10	AACAAGAGACTGTAACTCCCTAGTATCTCT	GGAAGACTTGGTTTCGTATTCTCTAACATTG
chr10	GTCCATTGGATCAGGTCTCGAAG	GTTAGTTGTTATGAGACTTGCTTACCTGAC
chr11	TATGCAAGTGATCTTGATGATTTTGAGAGTA	TGGGTAGCTTTAGAAAAGTCAAACCTTGAA
chr11	TACCACATAAATCTTGAAACCTTCACGAT	CCCTAAGATATCCCAAAGGCTTCTAAAGC
chr11	ATTAGTCTACTTGAGAGGTTTCGTACGTAA	TGGGTCCACATGGAAGAAGTTTTG
chr11	ACCATTAAGAACAACGATGCATGAAAATTA	TATGGACAATGCATGGGTTTCCATATC
chr11	TGCAAGTTTGGTTCTTTGTAATGTTTTAGGG	CGTTGAGAGAACTTTCGAAGCCTTC
chr11	CTTTGCTTAAACAATGTATCTGCAACTACT	CGATTGTCATGTGGAGCAATATTTCTATTCT
chr11	ATGCAACAACCAATCCATTAAAATAGTGGA	AATACTTTTAACCCACGCTAATTCTATCTCT
chr11	AGCAAGTTCATTCTATCACCCAAACTC	ATTTGGGTAAAGAATCAAATGTCTAACTTTGAA
chr11	GGAGAATTGTGGCAAAATCAAGAGTA	ACACCTTCTTCAACTTATCAATTGAATTGCG
chr11	AGGTAAGAAAGTAGATAGTAAAGGAAAACATTTT	GACACTTTAATAGCAGAAAAGATGATAGCGT
chr11	CCACTGAGCCTTCCCTCAAATAGA	GTTGAATGATAGTCACCTAGAAAGCTCAAAT
chr11	TGCATAAAATTTGACTGCCAAAAGAGC	CTGATAGAAGTTTACAAGTAACCTTGGCTTC
chr11	CTGACAAAGGAAAACGAGTTATTTCCACC	GCTCACGGATAAGGCGAGGATAA
chr11	TCTACAAAGTCGCGTTGTTCAAATCTAA	GGTTGTGGAAATAACTACAAAATTCACCATT
chr11	TTGATGAACCTCTCTGTTTGCCAA	AACAGAATGGAGTCGTGGAATGAAAG
chr11	CAGTCACAAGATGTGTGGGAGAAC	ATCCCCAAAAGGGTTAAAGAAAGCAGAAG
chr11	GCAAAAATGGCATATCCAAGTCGAA	TGGGAAATGACCTCCAAGTTACGA
chr11	TTCTTCCAAAACCGAAAAGCCCAAC	CTGCTAGATCATAAAAGGATTTGTGGAAAAC

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr11	CAAAATAATCAGCAAGAACCTACCTTGATGC	CCAAACTCCCGACAACCTTTATCAATC
chr11	CGTAAGAAATGGGTCTCATTTAGTTACACTT	TGCATCGCGAGGTTAAGCTAAAG
chr11	TAACGCACTTGTGTAGGAATTAAGCAT	CTTTTGTGTTTGATTGAAAGTCAATTTGGGT
chr11	GAAAATTAACGTCAGTTGACCCATGAT	GGACCAACTTCTTAGTTTTCGAGACAC
chr11	TTACAAGATCCTGTAGAGTTAACTACACGAT	CCGTAAACGATCGTGTTAACAAAGCT
chr11	TGTTTGAAGTCATGCTTGAAATATCCATA	TGAAAATAGTCTCATGCACCTTCCTTG
chr11	GAGAGCAAATCTCGATGTTGAGGTA	TGAGATTTCATCGAGATCTGCACTTTTCT
chr11	CACAGTTTCCAATTCCAGTAGTTTGTGC	GCAACCAAAGAGCTCACTTCAATTTT
chr11	CCTTTGTGGCTTATTTAAGCCATTTTCC	AGAAAGAATTGCTAAAACTACCATTCCTAA
chr11	GACTCTACAGCTAGCTAGTTATAGGAGTTT	GACTTTTCCTTGCTAACGAGGTCTG
chr11	GGCGGATAGCTAACAAAGAAGCA	GCAAGCCCATCTCACGATCATTC
chr11	GGCAATCTCCATAAAACGGTCATCT	CCCTAACTTGTAAGAAACACTCCCATTAATA
chr11	AATGGAATATACCTATGTGATTGCTTGGTT	GGCATGACACACAATTAGGCGATAA
chr11	GGATATATTAACACAAGGAGGTAAACGGAA	CTTGATGCAAAGTTGCTCAATGAGAAG
chr11	CCTGAGGTGTTTCTCTAAGTGTTTCAT	CTGAAGCATCAAGTGTCAATCCACC
chr11	TGAAGCCTACCTTGAAAGTGGA	CTACATGCCTGGCCACGAATAATAA
chr11	GGTGCATGTGTAGCTCAGCTTAC	GCCACCATTCAAGGTTGTCATCTG
chr11	TCTCTGGTGGAACATATGTATCTGAACTA	CCTTGAGAAAGAGTAGAGTTAGATGATGGA
chr11	ACTTGGTTGTTGACTCATCCTTGTG	GTGCTCCTTAATTAAATCCAATTTTTCACGC
chr11	TACAGTCTAACAAAGCAACCCAATATACACA	GATGTGCGTATGCCAAATGATGGG
chr11	GTAATTGATAGTCAATGTCTGTTCGCATTT	ACTTTTAGTTCAATTGAGTCGTGAGATGTCA
chr11	CTTCTAATGCCTCAGCAATTGACTCA	TAGAAGGAGTAGGGAGCTTTGTGTT
chr11	CTTTTTGAGATGAGAAACACATGTATTGGGG	CTCTATCCTCCCTCTAGGATTGGAATATCC
chr11	GATATGATGATAGGAAGCACGTTATTTGCC	TTGTATGTCCTTGATGAAAATCCTGCAC
chr11	GGCTCTCATTCGCTTGCAFTTCC	GGTTGATTTTAGAGACAAAAGGGACGATT
chr11	ATGAATACAAATGCATACACTTTTCTCTAATTTT	TGGCTTACTTTTGGCTCGCTTT
chr11	CTTGTTCCCTTAGGTCCCAATCAATCAC	CACTATCAACACCGCTGACTCAAC
chr11	TGACGTTGTACATTGCTACAACACTA	GATTGCAAGTCAATTTCAAAGAGATAGAGCT
chr11	GCTAATGAAAGGACGGCTCTAATTGGA	TTTTTCAGTGATCTGGGATGTCAATTGAAT
chr11	TTTCATCGTCTTCTTCTCAATTTAACTTCAT	CCAATTTTTCACCATCTCCTAACTAACA
chr11	GTTGTTTCGCATGAACCTACATAATGTAAAGGA	CAACCATTCTAGGGTTTCGCATTTGG
chr11	ATCTCATTTGTCATGCATGATTATTTGGTTC	AACTCGCTTAACTTCACAACTCAACA
chr11	AAAAACGTCTCTCCATAAAAAATGGTGCA	AATCAACTGACTTTTACCTCTTCAACGAT
chr11	TTGGTCACCATGGATTGAAACTATTGAC	TCTGATCAGCCTAATAAGATCTAAAGGGTA

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr11	TAGGAATTGAAAGCATTTCAGAGGCAAC	CCAATGACGTTGTCGGTATTACTCTTTTC
chr11	AAATTCATAAACCCTGCAATACAGGTTTCC	CTTTTCGTGAGTCGTTTGTATCTGTTGA
chr11	TAAGTTTAGTTTCGTTTCGACTGTGAATAACAA	CACGTAAACTATTTGAAAATTGGACTCCAA
chr11	GAATGTTCTTGAATCATCCATTTTCAATGCC	ATTTTCCTGCTGCCGTTCTTTTCA
chr11	TCATTGAAGCTAATTGTCAGAAGTTTCGTC	GATTCACCTATGACATGGTTGGGACTAAAA
chr12	ATTTTCATTAGGTCACCTCAAAGTTGATGTTA	TCCTATTTATCGGATCGTAGTGGGTTTC
chr12	GGTTTGAATCTTTACCTCAGCTTGAGAA	GAACCTTCCATAGTTCTCTTCCCTTG
chr12	TTTTAGCACAAAGGTCAGAGCAAG	GAGAAATGTTAACGAAGGGTAGGTAGATTA
chr12	AAACACAATGTGTGTAAAGTAATTTGGTCAA	GGTGTGATCTTGTCTCAAAGGTTGTAC
chr12	AAGTCCAAAGAAGTTGGGAGATGAAATA	TCTTGTATCGTTCAATTGCTTGTGGTG
chr12	CTTTAGATGGTCTTTGTGGGACCATG	GTTCACTACTACTGCTCCCTTTCCAA
chr12	TGTTTAGTTTGTGTATCAAAATATAGGTGGTT	AAAAGTTGGATAATTACAATGAAGCATTTATCTA
chr12	GCAAGTGCAGAATGATTAATGATGCAA	GACTCTTTACCGATCGAATTGTTGGG
chr12	TGCTGCCAGAATTTGAGTAGCTT	AGAATCTCCATCCCTCATCTTCTTC
chr12	TGTACATGGTTCACAACTTCACGTT	CGAGTCACCCGCATTGATCATATG
chr12	TGTTCCATCATCTAGAAATCCAAGAAACAAT	GTTACCTAAGAATTCGAAGAAGCCAACTT
chr12	GCTAGATTAAAAGTTTGAGCATTGGAAGTTG	ATGAGAGTCTTATGAACTCAACCTTGAAGC
chr12	CCCATATTTGCTATCCAAAAGAATTATTCACAT	TGTATTTAGCACAACTCTCTATTGAAGTGGACT
chr12	CCCATTATCTTCTCTATTCTTCTCCTTC	TCAATTTACTAACAAGAGTCTCTTTGTGCAT
chr12	TTCAATGTTTTGTTTCGTAAAATTCACGGAA	CCAGGTATACTCTAGCTTTCTCCCATC
chr12	GACACTCACTGACATAGTGGCTAG	GGCGAGATAGGCGTGGTTTTATTT
chr12	GAAAACCAAACCTTTCTCAAAGTTT	TCGAGGAGAAACACAAATGGTCAAAA
chr12	TAAGAGGTGCACATTTCTTCTCATGGT	GTTTTTAACCGTGCATCAATGTCAAATGA
chr12	CTTTGGATGAACCTCCACGCAAT	ACAATCAAGCTCATCTCCACCATTC
chr12	CCTCTTAGGTTCGATGGACAAGGTA	CGAGGAGGGCATACTTTGGTTGG
chr12	GGTAATGGAAGCTAGAATTCCTAGCTTGTT	GTGAGCTTCACCTTAAAAGGGATTCC
chr12	GGAGTAAATTGAGAGAAGAGAATACATCAACTT	AAAAATAGAAGGGTATCATTTGAATGATGAGGT
chr12	TGTCTTACACGATGAAGGTTGGATCG	TGCCTTTTACTATTCATCATTTTCTTCTC
chr12	AGAGCCTATTTGTTGAGAAAGTTGAGAGT	ATGTATCACCAAATCCATTTGGCTAGATG
chr12	GAATGGGATTTGGTGGTTTCTTTTCA	CATGTACAGGTGCACCCACTAAAC
chr12	ACCTCAAGACCAATTTGATCTTAACCTTT	AAGATTTGATCAATGAAGAATGGAGAGGAAG
chr12	ACTCAGAGAAGAAAGTCCGAGTCAAT	CGTTGAAAAAGGTTAATGCACCCAATCA
chr12	GGGTTGGTTTCTCTTTCAATTTCAAGGA	TATCTACCTAACGAGCCCTTGATCTT
chr12	TGAAAATGTAATGGAAGCCGAAGGTAT	ACACACATTATTAAAGCTGAAACTCTCCTA

表 A.8 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr12	TGTCCAAAAATGCACCGGAAAAGA	TGATACCATCAAGCACTTCCAACTGT
chr12	GGAAGGCTACAACGATTCTATTGCG	TCAATCATCCTTGAAGAACAACGATCTAATT
chr12	ACGACCGTCTTTGACATCTTTTTATCAT	GCTGACAAACATTCAATGAAAGAAGTAGTCA
chr12	AGTGGTTTGACACAACCAGCTTAC	TACACTTCCACCTCCACCTTTTGT
chr12	GGGTTGTCAACTGCCGTCTAAAA	GAAAGTCCTAGGCTGGATATTTGAATCATAC
chr12	CCTTGTA AAAAGAGTTAGGAGAGTTGGTT	CACCTCTTGGTTTTGCACACAAGC
chr12	ATGTATACTACTACGTATACTTTTACGTGGAT	TGGCTCTCTTTAACCAATAATTACAAACCAAA
chr12	CTATTAGGCTGTGCACCCAGATA	CCCTTCTATTATAGACATGGGTCTCACATC
chr12	ACCAAAACAAACCCAAAATCGATGGG	GACGTCGGAAGATAGAAGGGTATTTTCG
chr12	CCCTATTGTTTCGACTTCAAATTCGGT	ACTCATTATTCTCTCTAGAAAAATCGACAATTTTT
chr12	AATGATTCCAATTCATATTGTGGAAGCTTGT	GCATGCCCACTCGAAACAATCTAAT
chr12	GGTGGGACCAAGTTCAAGTCAAC	GTAGGTCTTGATGTCTTCCTTGAGACC
chr12	GATCTTCCATCACTTGGAGGGTTG	ATTAGTCTTGGAAGTATATGAGCAATTGCAA
chr12	TATGATGTATCGCAGACCTATGACTCAT	GGAGCAATTTTCATGCTACGCAAC
chr12	GCTTCCTTGCTCATCAGCTGAAT	CAGCTGTTTCTAATTAACCAAGGGAGTTATG
chr12	TCTTCACGTGACACCAACAATGAA	GCATGTCACCTGCTACCTTGTAATGATTAAA
chr12	GACTTCAAACCGATCAAAGTGTCAAAT	ACAACCCAACTCAAGCAAAGAATAGTAC
chr12	AATTTCTACCACTATTATTAGTTTGAGAGTCGAA	GTGTGTTTTCTTTTTATGGTGGAGATGGG
chr12	GTATCAGAATTGAAAATCTTGAAGTACTTCGGC	AATCTTTAAAACCCAACTTGTTATTCAAATCTT
chr12	TAAGAATTCTTCTCGTAATTGCATCGTCAC	CGAAGAATTAAAGGTATTAGAGTCGTGGTTG
chr12	CAACACTCTCCTACGACTATTTGTTCTT	TGATTCTGAAGATTGTGGATTCTTGATCCA
chr12	CCCTTAAACAAAGCATCAATTCATACCAA	TTTTTGTAACGCCAAGTGAAGTGAATTAATC
chr12	CCACTGCCAATTACTAGCCTGAG	GAAATTCATATGGATGTTTTGACATGCTGTC
chr12	ATTGTAGTATTAGATAATCTTTGCCTCATACGGT	CCTTTACCTTTTCATTCATGTTTCGGTCC



A.9 黄瓜 MNP 标记引物

黄瓜 MNP 标记引物见表 A.9。

表 A.9 黄瓜 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	CCTCACACGCTGTTGATCCAAAT	CTGAGGACTCACCTGCATCAATG
chr1	CCACAAAAGAGCAATTTAGAATCAAGTGAT	TCAATGTTTTACACATCAAAGCACATCTA
chr1	TTAGGATAAGATCCCAAACCTCCCTTA	CTTCTGTCTGTCCAGAAGATTTGTG

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	TGCACGCATAATCTAATAAACAACTTTGCC	GGCAATTTTTGTAAAGGTATCTAATGGAAGCT
chr1	ACATGAGTCTTTTCATCATGTGCATAATACTA	GCCAAAACCTAAGTTCATTGTGTGGTT
chr1	TTAAATTCAGACTCGACATTGCCAGAT	AGCTCTGAAAAGGTAGAAAATTCGTCTCC
chr1	TGTTTGTTCCTTTTAGATTTACGGTGTT	CCCTCCACCAAATAAGGATTGGAGT
chr1	CACCTTAGGGTTTCCTTTTCCCAT	ACTATATTGGGCTTATATTGTATGAGTCCAA
chr1	CATAAGTACCATTGTTGTGTTTTAAGTTCTACCA	TAAAAGCGCTATTCATCTCGGTAAATATACTCT
chr1	GCGTGCGTGTGTGTGTAATATGC	TCGTATTTGAACCAACTTGACATAGCTC
chr1	AAATCAAACCTTATGGAAAGATGGAGTCGATG	GAAATGATTGTATTTGTGACCGAGTATGTCG
chr1	AATGGCCAACCTCTTGGGCTTAAC	TGTGAAGTAGTAGTAAGTGTGGGAGTTTT
chr1	GGAAATGGCGTATCGCTCAAAAC	GATGCGACTACAAGGTGTGTGAA
chr1	CCCCTACTCTCACTTCACACATT	CCAGGTGAAAAGTCCTTCCCTTTTTTG
chr1	AAAAACCCTAAATTGTCGAGAGCTTTCA	AACATTTGAACTAACTCCGACCATGAA
chr1	ACGTTTGCAAACCTCTAAAGAGAGTTTTGT	CAAGAAGGAGCATTTAAACCTACAAGAAAGA
chr1	CACCTGAGAGGCTCAAGATTTGTA	GCTTTTGCTCAAGTACCAGAATTAAATGTTT
chr1	TTAATCTACTTAACAAGTGCTCCATGCATG	CTTTCCCAGAAAGGCCAATCGTAA
chr1	CATATGCGGTCAATTGAGTTATGCTTATTT	TTCAATCTTCATTGCTGCACTTGTTTTAC
chr1	TGAATCAATAAGTTGAAACACCTTTTGCTCA	TGGGAGTCAATAGCCATTTAACCCA
chr1	GTGCAGCAGTAGATGGTGATCAA	GCATCACCTCTACATCTCTAGCTACATAAC
chr1	AGCACTGATTCCCAGCATTCAGG	AAGCACTTCATATGTTCTGATTGCATTGA
chr1	CTATAGGATGACCTTTGTGATAACACGA	AAGGTTGTATCAGGGTTTAAGGGATTCC
chr1	ATTAGGTTTTTAAAATCTTGTGCATGACTATGTT	TTCACTATGTACTCTCCTATACTGTCATAGCT
chr1	GCGACACACTTATGTTTGTTTACTTCTTGA	GCTCCAATTTAGCCCGTTTTTGTTC
chr1	GTCAGTCAAAATTTTGAATCACAGTAGATGATA	TCCTTTTTCTTTTTCCCATCACTACATCT
chr1	CCACTGAGTAAAGTTAATAAATTTGTACGTGCC	GAATGTAAGAAGTGAAAAAGAAGGAAATATGGG
chr1	AAACACCCATCAATAGAAGACTTTGATCAC	AGGTCGCAGAAGAATTATTTTAAATTGCTGA
chr1	GTCCATTTGCCCCGTATCCTCTTC	CTCTAGACCACGTAACCTCTAAACTTCGA
chr1	CTTTTAAAAATGTCTTGCACGGACTGTAA	GAGAGAGTTCAATGTCCTAGCGAAAG
chr1	AACTTACCATAATTGTAAGTTCTCCATGCAT	AGGATCATGGCCTTCCAGAGTAG
chr1	TTTCATATATCTCCCAACGGCCAAAAG	GATTGATGTTGGAAGCGTCAGTATGG
chr1	GAATGGATGATATGAGGAGCTTGCTTC	TACGATAAATGTAAGGAGACCTAGCCAAC
chr1	CCCTAATTTCTTGGCACGAATAAGTTT	AAAACCTCTTCGTCTCTCTACCTCTA
chr1	AACCAAGCAAGCGACAAGAGTAATAA	TGTATTGTGATTTCGTGTCTAGTTTAGTTGTA
chr1	GAAATTGTCGTCTTCTTTGTTCGGTG	GATGTCTTGTTCATACCTGAATTTTGATTCAAC
chr1	TCAAGTGAGGCATTGTTAGATAGCATA	GTTGGATGGCACTACAAGAAAATAGATTTTT

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	GGGCCTAAAACTGAATCAATTGAAAAGGA	CCCACTAGATGCAAGAGTCCTCTC
chr1	GAATGGAACCTTCACCAGCTTTAGAA	TTGTGAGTACTCATTAGCTTGATTATTGCAA
chr1	GGGAAAATTTATTTTCATGAATTGTATGTATCGAA	AATACAACATAGAGAATGTTACCAAGAAGGGG
chr1	TCAATTGGACAAAGCCCTCCAAAC	TCGTCCTCATTTTTTAGAGCCTCAAATCG
chr1	CGTTTCCATGCATCCTAGCTAATCAC	GTTGCTTAGGATTTCCCTTTATTTCTATGCA
chr1	GGTGGGCCCTGGACTCATTTAAT	ATTTTGTACGTCATTAGAGCAAAATTGTG
chr1	TCATCTTGCCTTGAATGACACCAT	TTGTACCTACGGGTCTTTTTAAATAACAAAA
chr1	AAGCCTTTATCTGAGCCTAAAGAAATCTACG	TCTTCTAACCCGGAGCTCATCATG
chr1	AAGGTAACATTTTGAAGAACTCAACAACCC	ATAGTTGGTATCGAGTTGCACTCATCT
chr1	TATTGATCTTTGCATCACAAGAAAACGGG	TTCTAAACCAGTGCCAAACACCTC
chr1	AAATTGATGGACACACTACATCCGATT	ACTGCTAAATTGCAATTTTCAGAAAAGCATAA
chr1	AATTGTTCAAAAATGATTTCTCTGTAAAGGAAA	AATGTTGAAGAAGGAAAAGAAACATTTGAGTAAG
chr1	TGCCAACATCAGTTCAGATAATGTCAA	CCAGTTTTTGAGGAAGTCTTTGATTTCTCT
chr1	CACCTCGTACCACCATCTCCTAA	ACAAGGTATGTTATCACCACCAACATACT
chr1	ATGAAGTATATGGTGGTGGCTGTAATTACA	AGGTATTATGCATCAATGATCATGGAAGAG
chr1	TAACACATAGCTTAGTCTTCTCACATTGCA	CTACATATAATATCCCAACTCAACATCGCAA
chr1	ATGGGATCACAAGACTATTATGGTGCA	CATTACAATCAACAAAACCTTGAAAATAAGCAAA
chr1	AAAAAGGAGGAAGGAAATCCTAGGTT	AATTTGTAAGGTAGACAAAATATGACCAAGAAA
chr1	GGTTCTTGTCAAATTTTTCTCCTTCTTTTTCTT	ATGTTGTAAAGATGAAGATGATCAAGAAATGAAC
chr1	CTCGTCAAAACATGCATCGTGAA	GAGCCAAGGACTTAGCTACCATCT
chr1	TGTGAACACCAAATTCCAACAAAGAGA	CATAAAGTTTGGTTGGTCCTACTTAGATGTT
chr1	TTTCGGGTTTAATCTTGGTGAAGATTATGAA	TGTTGATGCTTAACCAAATTAATTAAGACCCTAA
chr1	CCTCTTAATGGCTCAATTGATGTTCTGA	CTTGTGGTTTTTGGTCCATATGGTCC
chr1	ACCTATGCGTTTTTGAGAAAGCTAAGAT	AGTTGTTTGCATGAAACATTTTTGTGACA
chr1	GGGTTGTTGTTCTAATAGTTGCAATATCA	AGATTGGGAATCCTAATTTAAACGACTT
chr1	ATTTGAGTAAAATGGAAAATGAAAATCCACAAA	TGAAGAAGTATATTGACAAGTTCTAATGACGTCA
chr1	ATAGATGAAAGGTCTCATGTCAATTACCGT	CGTGTTCGTATATTGAAGCAACAAATTGAAT
chr1	CATGAACCAAGTTTAGTTCAACGGTAATTG	CCAAGTATCTTTCAATATGCCCTATTTTGGT
chr1	ACTTGAATCCTCCAAACCTTACTCTAAATCC	CCGCAACTATGAATGCTCGAGTAAC
chr1	AGAGGCAACTTTCAATATGTTACAACATAA	CAAAATGAGTGGAAGTATATATGTGGACAAC
chr1	CATCTTTGCCTATAAACCTCGTAGACAA	AAAAGTGTGTTTGGTTGCTATATCCTAAAAG
chr1	CGTGTGTAATATCAAATTTCTGGTGGTTG	TGACAATGGGATAGTTTTTGGTCAAAAAGTT
chr1	TACTGAAATATACAAGCAAGTGGCTCAAA	TAACCTGCTGACGAATATAGATTAGTGGATC
chr1	ACATTTGGACCAAAGACGGAGTTG	TGTTCCGGTCTCAAAATTTTCAAGTGTTTTT

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr1	GCTGCTGTCAAAGTGTACAAAACCA	CAAGAGATCTATTTGCAGCCTTTTATCAGC
chr1	GGTCCGTCTGAAGTAAACACCATG	GACGTTCCACACCAAGATATTGTTTCA
chr1	TACAAACAAGATGATCCACAACAGCTC	CAAACAAGATGTTCTACTCGCCTGTAATAC
chr1	GCCAATTACAGTTGATTGCATTGAAAAAT	GAAAAAGGATCTCTTGACGCATAAACGC
chr1	GATTTCCAAGCTCTCAACGGAATTATCT	GGAGATAAAATGTGAGATGGAAGTTTTCCT
chr1	ATTTATTTGAATGCCAAAGCAGCTTTTAGTT	CAAGTTTCTTTATGTTTGACTTCAACTGCTG
chr1	GAGAAAAATTTGGTAAAGGGATATGTTGTTCGA	CTTTAGATTGCTTGCTCAACTTCTATGCG
chr1	ACTCATAGCCTAATCGATTGAAATATACAGTA	ATTTTGGGAAGAAATAAACACGATTTCGA
chr1	CCCAAATGGTAGATATATTGAGTTAACGAC	AGAGAGATGAATAGTATAAGATTGATTCCCTTAA
chr2	CAATTTAATCCAGTCTTGGAACCCATTG	TAAGCTTTGAGGCAAGGCTCAAAAC
chr2	ATTCCTCTGTCTAATCCCTATTCCAT	GATATACATCATCTCCCACTTGTTGCAT
chr2	TTTCTGATTGATTTGATTTCGAACAAACAAA	AACTAGTCGTGTTTTTAACGAGAGATTGTAC
chr2	GTGTGACATGGAAAAATGTACTACAAAAGGG	CACACAAAAGTAAGGTTAGAGTTCTCATTTA
chr2	ATTAAGTGTCTGTTTCTCTTTTGGTACCTG	GAACTGGTGAACAAAGGAAAAATAGGAGA
chr2	CCCATCTCTCTCTCGACATTCAAA	AAAATTGCAACATGTTTTGACATTTGAAGTT
chr2	TACTTGAACAATGAGATGTCCAATTCAACTA	GGCAAAACACATCGGTTGAGTTTG
chr2	CTGCATCCACCTTCATACAACAATGC	TTGATTGTTGTAATGGCTTACAATGGTTTTA
chr2	ATGAAAAGTATTTGTGCTAATAGATTTTGACCTA	ATTCTTAAATACAAGTCTCAGCATAATACA
chr2	ACAATTTCTAACTCTCACTTGTGTAACATACTT	AGGATATGAATTTTCTAATCCTATTGGCAAGC
chr2	ACAAGTTGATCAACTTTATCCTTGCGTAT	TGTTTCCACCATAATCATGAAGTTTCTCTC
chr2	TTCGTTCTGTTCTTCGTTCTCGTT	ACGATTCCAGTGATGGAAGAGAAACT
chr2	CGTGTGTGGCAAATCTTTACGAG	CTTGGTCTTAGGAATTTCTCTTTATCCTGAA
chr2	CATAGCTTCCACCGTAAGTTTCTTCAT	CCCTAAGAATGGTAATACTAGTGTCTTCACT
chr2	GATTGATAGAGAAGAGTGTGGTGCAAC	CTTTAGAAACATCGCTCGACCTTTCT
chr2	TTTTGCCATTAGTGATCCCATCCTTG	CGTAGTAGAAGTGGGATCATTAACAACAG
chr2	GCGGTAAATGACAACTCCTTTCTCTC	TGAACTCCTACGTTTCATCATATACGATGTAA
chr2	TTCTTTAGATAGTAAGGGTGATCATCGGTC	GCAACCATTCATCCATTGTCGTCTATC
chr2	AGAATACTCACAGCACCACGTTTA	TAGACTTAAAAAGTGGTTTCCAAATCGCTAT
chr2	GGTTGTTAACACCAAAAAATCAAACAAATGGT	CTTGGGAGATCATGTTAATTTTCGTTTCAAG
chr2	CATAGTTGGTTCCACAGAGCGTAC	AGTGGTTGGATAGTTTTAAAGATTCAAGCTG
chr2	GTATAATAACCCACTGGCATTTATCAAAAGCC	GGAAGGCAGTTTTGTGGAGAAGTT
chr2	CATTTAACACACCAAGATGAAGTGCAT	CTTTTGCATGTGCAAGTGGTTAATGG
chr2	CTTTCTTGAACATCTAGTCTTTTGGTTGCA	TGACCAATCTTAACAATGACACCAAGAT
chr2	ATTGCCAATTATTTAATCCAACACAAAGGTA	AGCTACCTCCAATTGCTTTTACTTCTTTAC

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr2	AAAAATCAACACAAATTAGCGTTGCAC	TCAACTTGAAGGCTTTTCTTTAACATCTTTTCT
chr2	ACTGATAGAAGATCTACTTCAAGCTTTTGTT	CATGGAAGGAGTCAAGTTAAAGTCCATAAAG
chr2	AATGTCTGAAATGAACTTTTGGACGATAAT	ATTTGGCAAAGCTAATGTGCACAAT
chr2	ATTCTCGTATAAAGTTCACCAAACTCTATCGA	AGTTCTATTTTGCAACTTTAATCTTTTCGATAAAT
chr2	AGCTAGAGCAATTATACGAAGCAAGACA	AAATTGCACATTTGACATCACCATTTTCA
chr2	TGTAGATTTGATGAATTTTCATTTCTCCAATCGT	TGTCTACTCGAAAAACAACCTTAATAAAGAACAC
chr2	CGTAGGAGGGAGCTTAAAAAGCAC	CTTTTCTTGAGCTTCTAGACTCCTATGAGC
chr2	ATCGGGTTTTCCATTGAGAAATTTTAACCG	CCTATGCCATTTTGGTCCTAAGATGAT
chr2	AATAAGGCCAATATAGGATTTTGGGTCATA	TCCAAAATGACCCTTCTATTCAAATACAGGT
chr2	GGTTATTTGATTCGTGCGGGAGTTG	AAAACAACCTCTACGTAGGATGATGACCT
chr2	AGGGTGTCATTTCTTATCATCACTCTAATGA	AGGTTGCAAAATATGTTTGTGTGTGCTG
chr2	AAAAATTCAAATCAACCCAACCTCTTAGGTT	GGTTCGGTCTGATTAACCCGAATTTTC
chr2	AGCAATCTATGTTTCTAAAATAACACTCTTTGT	GTAAAGCATCACGATGTTACCTTGAAG
chr2	TGAGTTATTTGATGACACATTTTGTAGTGTT	GAGAAGGTAAGAAGAAATTACTTCACCCCTTA
chr2	TCTAGTGAGGATGCACCATCAT	AACTCCTTGAGTTTTACGCCCTTT
chr2	TGAATTGTTGTGGATATTATGCGGATTTTCA	AGCCTGATGAGTTATGGCTATGGTAC
chr2	AAAGTCGAGATTTATCAGATCGCTCAAA	AGTATCATCTCACTCCGGTTAGGAATTC
chr2	AAAAACAAAGTTGAAATTAGCTATTTGAGTTTGCA	AAAAATTATATCGATATGGTGTCTGTTATGTT
chr2	TTTTTCTAGGGTTTGCAATTGAAGAGTTA	TTGTCAAAATTTTCCATAAATTGGAAGCCTTC
chr2	GAGGCAATTTAATTGGCTTAATTACACAGAA	GTTATCTTTGGAATGGTCTACTCTGCTG
chr2	TGATATTTTGACCTCAATCGTGGGTTT	TTGAAAGAATGACTTTTTTCTGTCAGTTGAAC
chr2	ACATCACTGTCTAAGAAACAGATGAATACT	ATTAATGGTAAAAAGAGAAAAACACCAATTGTAAA
chr2	CATCATTCGACCATATGGTATGTATGCT	TTTCTCGTTCTAGCTTCTTTTCGTCTCT
chr2	AATTTTACGTTTCAAAACATTTTCATTCAAACGT	ATGTTAAAAAGGTAAGAGAAGTCTCTGGTATGA
chr2	CTAATGAACGATGTAGTTTATAGGTGCATCT	CCAATTTGAAGCCTCTTCTCTCCAG
chr2	AGACCTTTTGTCTTCTCTTCTTTATTTTCATGT	AACCTCTTAGTCAAAAATTTCTAAAAACAATGCAA
chr2	CGTTTCTGTTTTACAATTTCAATCGGGATT	GTTTTGCCGACAAGGTCAACATG
chr2	TCTTTATCACCTATTAGCTCTGTTTGTCTGC	GTCAGATTTCCATAAAATGTTGAAGAGCAC
chr2	TGATAGTGACATTTGCCCTAGACTCAA	TAGGGTGCATGACATGGAAGATAAAAGA
chr2	TCACCATTAAATTTTATCACGCATAATGCACC	TGATATTTGGTACCCTATGTGATGAGATGTC
chr2	GTTTTTGAGAGAAAAAGGAAGAAAGAGCTTC	CTCAATCTTACCCAATTGTCCACTGTG
chr2	AACATTTTGAGTTGGAAACGAGTTTATAGACA	GAAAAATGCAAAGCCATCTCCATATGATATT
chr2	TAGCCAATGCAAACTTAACTTTGTTTACAT	TTGACGTTAAAAATTTCTAGTGTCCGTACTT
chr3	AACTAAGCATGTGGCTTGAGTTATCAT	ACGTTTTCAAGATACATCGGGAGTTCT

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	TTTGGACCAATTTTAGATCCACACCAAC	CTCGAAGTGGTTTATCCTACGAATTTAAACA
chr3	GAACGTAGCTTAACTAACATGCAATATGCG	GTATATTTTGTAGTAGTGGTGGCAGATGAAA
chr3	AACATGAAAAATTTTAATTAGTGGTTTCGGTTGA	TGAGAACCAACACCCGGTTTTAAG
chr3	AGCTTATAGCCCTTGCGATTATGTATTG	CCCAAATCTCTTTGTCTTTAGTGTTTTGAAT
chr3	CAGATTTAAGGACCGTGCATATTACTTCTT	TTCATGGAAGTTGTTCCAGGTCAAG
chr3	CGTCGCCAGGAAGAAGAGAATCG	GGGAATCGAATAGAAGGTGATAGTGTCC
chr3	CAAGATGTTTTATGTGCGAATAAGGAAGAATGAAA	ATGTCTAATTGAAACTGTTGGGAATATAAAATGG
chr3	TACTTTGATGCTTTGGGTGGTTGTT	ACATATAGCGTATAAAGCAGCTTTAAACCTC
chr3	GGAAAAGATTTTGGTGTGTTGGGAGTTG	TGTCAATCATTGTTGTTTTGTGTCAAACATA
chr3	GGTGTGTAAAACATTTGAGGGCAAA	GACGTTCGTCCTTGAAATAGATGGTT
chr3	GTACACATGATTTTGGCCCAATGTT	TGGTAAACATGTAGGAAAATTCTTCGTTGAA
chr3	TGTTGGAAAATCCGTTTGGTGAGAG	TGTCATCTCAAATTATCACAACCTTGAGCTT
chr3	GAGTTCAAATTGTCCCTGTGATAGGTT	CTCCAACCAAATTTGCAATAACCAGAAC
chr3	GAATATGCTCATGTGGTCAATGAACCT	GGTAAAAATAGGTGGTTACAATCCTCATCAT
chr3	GAAAAGTAAAGTTAAAGAGCTTGGCAAGAG	AACATATGCAAATAACTATGAACAACAAAGCAA
chr3	AATGTACCATAAGCTTGAAACTTTAGGGTA	GATTTGTGATGCCATTTGTGCCTA
chr3	GCATCCCTAGCTTCACCTACCTA	CGGTGTCATCAAGTTACAGAGCTAACC
chr3	TTTCCATTTTCATACCACACCTGTTTTAGAG	CTAGAGGGATGATTTTTTACACAACATGAGAC
chr3	TAGCTCTAAAATGGCTTTAATTAGCACCAA	CTGTGATTTCGACCCAATCTTGCTAC
chr3	AGTAACGTGAGGAAGATGTGTGTTTT	GTCTTTTTCGTCTAATGATAATCCTCAACGAC
chr3	GGAAGGATACAACTCTGGTGGTTA	CCTCTGCTGAAGAACACCATCACC
chr3	TTTGTAGTTGTTGTACTATTGTCTAGTCGTT	GGGACGAATCTCATTTTGTGTGAAACTAGAA
chr3	CTGGCTACCTCGTTCAATTCTCTT	GTATATGTGATTCTTGTGGAAGAGGAGATG
chr3	ACAAAATTGAGTGAGTTCTAAGCTCTTTCAA	TTTTTGTACTGTGGGAATAGGGAACAC
chr3	TCGAAGTGCAGGAATTTTCTCCAA	GTATTATCCTGCGAAAAGAGGGAAAGAA
chr3	TGTGCTCCTTGTAAGAACTGCTACT	CCAACGAATAAACCCCTCATATCGTGG
chr3	GTCTGTGAAGAGCTCAGATGCAT	AATAATAGTTGGAAACAACGTCTGTTGTTTA
chr3	CCCTCTTTCACTTAGTCAATATGCTTTGC	AAAGAAGTTCGATATCCAACCCCTCAAAAG
chr3	TAAGGTGCTATGCTTGTGTCCAATTG	AAGTTTAGTGGCTAAAACCTTAACGTTGT
chr3	GTCTGTAATCTAAAAGTTGATCTCGTGGTT	TTGTTTTTGTAAAGCTAATTTACATTTTGAAAA
chr3	GCTCAACAGCCAAGCTCTTTTAA	GCCATCGCCATTCGATTCTTCTC
chr3	TTCATCTTCTGAAAGGTTCAACTGGTG	CAACAAAGCATTTGGACATTGATCCTG
chr3	GGTTCTGGAAGAAAGAACACGACTG	CAGTCAAACTCCATTGATAAAACAGAAGGG
chr3	GGCATTTGGCAATCAGGACTTCA	GATCAGACCCTCTACTTCCAGAGTATG

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	CCAGGAGACTCTGCACAAAGACG	TCCATCACTGTCTTTCAAAATACTGGATTTA
chr3	GTCCGAACCTTGATAACCAGATTGCA	GAGTCTGT'TCCCGTAAATCCAGTTG
chr3	GTGCCAATTGTCTTTCCAGCATG	CAACTTGAAATGCTTGGCAGCTTT
chr3	TACGTTATGGGTCATCTTGGACAACC	TGCAACATTGGCCATTTTGCTAGC
chr3	TTTCCAAAAGTTCCAATGCGCAA	TATACTGCGCTCTCATTTGGCTAAGA
chr3	ATTGAATCGAAAAATAGGTTTGATTCTCCAT	GAAAAATCTTCTTCTTTGCCCATGGTTC
chr3	ATGTCATCACAATACAATTGATTCCCAAAAA	GTATTGATCATCTCAAAGATGCATGCAT
chr3	GGCTCTGTTATCTCTGACTCAACAAG	CTCTTCACCATGGGTCTCTCATCG
chr3	GGTTGGATAATCCCACCACCAAAT	TTGGCATCAAAGAGTTAGTGAGAAAAGAA
chr3	ACATAATGACTTCATTTGAGGTAGCATGAGT	GTTTGATGTTGTACTTAGGGCTATTGCTAT
chr3	TCACGCCATAACACTAGGGATAAGTC	GAGGTTGAAAGGGAAGTTTATTGATTCTCTA
chr3	TGTGTCAATTTTGTGCATTGTTCTTAGGC	TCTACCATGAAAAATCTTCCATGAAATGACA
chr3	GGCCACCAAATAAATGCATGCT	GACTAATTCATTCCACAAAGTCTTCATCTTT
chr3	AAAAATTTGACTGCAAATTCAC'TTCCACTAA	AACTCAGAAGAGGCTCAAAAGGTCA
chr3	GAAAATATTCATCTAGGCATGATCACAACGA	TCACATAAAAAGTTTAGACGGCTATGACAC
chr3	TAGGATAGTCTCCATGAATGATGGCTC	TGTTGGATTATTATCCTCAAGTCGTATTGGA
chr3	TATGTTTGTCGCGTTGAGCTCAT	CCAAAGTCCAAACTCCTCAAACCTC
chr3	GATTAGGCATAGAGAGAGAAAGGGTTGG	GCTCCAGATATTCTGTGGAGAAACG
chr3	AGCTGTTGATTCTGAATTGTCTATCTCTG	GGTATGGTAAGTGTAATTCTTCAATGGTGTA
chr3	AAATTGGGTTAGACACAAC'TGCCTTAA	AGTTTTATTGGGAAGCTTCTTAAGCCTT
chr3	ACTGTAAATACTTTTGTGTGTTGTTCTATTTTT	AATAATATCAATTTCAATAATGTTTCGCATCCTGC
chr3	GGTGTTACAAGTAGTTGCTAAACTTTGGG	CCTCCATGCAACAACTTTGGT'TT
chr3	GGCAACAAGAATTAAC'TAAAGAATCTCCCAA	GAGTGGATTGCCAACACCATTCATCA
chr3	GAAGATCAGCTCGAGTTTTTCCATGT	GTCTTCCAGACAGCAGACAACAAAG
chr3	GCTGATAAAAAGGTTTCATCAATCCACATTA	TTGAACCCTAATTTCAAAAGATCCTTTGCC
chr3	GCA'TTGACTATGGTAGTGACTGAGTT	AAAGTGCTTTGGGATGAGGTGTG
chr3	GGCTTGAGAGTTATATAT'TGTCGAGGAGATT	AGTCTCGACAAGCTCAATAAACTTTTCAA
chr3	ATGGTTTGATTATGCAAAAAGATTCTTTAACAT	AACCCAAGAATCTACTCCTCAGGAG
chr3	CGATTTTATACTGAGTCTAAACGATACATTTGTA	GTTGCAAGGTTAGACCCAATATTATACTCAAC
chr3	GCACTATACTGTTTTGAGCACAGGAAA	AGTTTCACCATCGAAAATAGAACACTTTTTGTA
chr3	CAAGACATTTGGTAAAGTAGATGGGATGTG	CGGTAAAGTTATCTATCAAACACCACCATG
chr3	GTACCTCTTTTGAGACCTACTACAATGACT	CAAAATTTGAAGAACATGATTGGAACCATTA
chr3	AAAATCGCTTGAGTTTCCTTGACACA	AACCTTTTAGAATGTTGCTTCGAATTCAAAT
chr3	ACCCGAGGGATCCAAAGAAATGA	TATGTTTACACTCAATGCAT'TCTACGGTAAC

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	GCAGATTTTGGTGATAAGAGGCATTTG	AATGAGTCTCGAGATTTGTTCCATTTTAC
chr3	GTGTTGGTAGGCTCATTTTCAAGTCT	GGGATTGAGAGGGATTAAAGGAAGGA
chr3	GGGAAAGAAATTCACCCACTTTTTCTT	CTCTTTATAGGTGGATAACTCATGAGGAACA
chr3	GTAATGTGTTTGGTTGTATGTGAAGAAGTC	AAAATGCTAATGCTACCAACTGCATTAATTT
chr3	AGTTTAAAGAGTTATTTTCCGCTGCAAAAG	GGTGGTTGGCCATGCATATATATAAAGTTC
chr3	TCTCTCGTTCTCCGTAAAACAAATCCT	TATCACTGCGAGAAGAGCCGAATG
chr3	CGTCCATGGGAAGTAACCACTAA	ACCTAATTGAACCCATACTTTAAAGGTTGGG
chr3	AAACCAAAGTAAGTAGTGAGTCTAAAAGGAAAAT	CATTTATCCAATGAAGCCTTTTGGCATG
chr3	AGCTACGGTACAACCTTTGTAAAGTTTATGAAC	TCCTCCCACAATCAAATTACAAGCTTG
chr3	GGTTGATTCTATTCCTTGTTTGGACGAG	CACACTAGTGTAATGAACCAAAATGTCCCT
chr3	CAACAATGAAATAGGTGCGATCCAACCTTA	CATCCGTGAAGGCCTTCTTTCTT
chr3	GAAGGTATACATGTTGACAACAGACATACAT	TGAGTTTTAAACTTATAATGCCGGTCATGTG
chr3	GGTGACTGCAAAAACCTCCATAACTGA	GGATAGTGCTTAAGATCCTAACTCCAAAATG
chr3	TATCGAAACTCAAAAGGTCTTGTTCCTCAT	TGTGCAAAAGAGTTGTATCTTTTTTCGTTA
chr3	AAGAGAGAGAAATGTGTTAGGAGAAGAGAG	TTGTGTAAACCATCCTGCCTATTTTACAT
chr3	AATGTGTTTGAAAGTTGAAATCCAGTTTCAA	TCGTCCAACAATTTCAATTTGTAATATGGCA
chr3	CATCTTCATTGATTGTGGCGTTCTTG	GCCTTACCCATGCAAACCTTCAA
chr3	CTCAAAATGTACCAACCAAGCATTTGAA	GGCCCTAACAACAAAAGTACTCTAATGAATT
chr3	CTTTAACATGCATGCCTTCATTACATTGAA	TTTAGGTAGGTGTTGAAGTTTGATCTTCTTT
chr3	CTAAATAATTAGGTTGCCTTGTAATGAGATTTT	TCTAACCAACAGTTTTAGATTAGAATCTATGTCC
chr3	TACATGCAATTGCTCCATCTAGACTTTA	CGTTGTTGTTTTTAAGCTCAAATGAACTTTT
chr3	TTATGCACACTGCCATGTTTTACCTATAA	ATTCTTCTTTCTCAAAAGGCACAATATGATT
chr3	CGAGACCTCCAACCATGTCTATATACAG	GTGTTTTTAAATTCCTGCTTCTGTTTTTGTA
chr3	TTGCAATAGATTTGTACCAGTATACATCAACAA	AGGGTTACGTTTCTTTCTTTTGTTTTTCTTTTAA
chr3	TCTTGAAGCATGCACGGACTATTT	ATTTTTGCCATTTTATGTATACGTGTTGGAA
chr3	TCAAAGGCAACACAGGAATTGTTCT	CTATCAAAAAGTCATTTCTCAGGAAGCATGG
chr3	GCTGCAGCACTTAAAGGTGAACT	ACCAATATATAGCCAGTTCACAAAACAGTA
chr3	TCAGAATACATCTCCAGAGCTACATC	TATAGTGCATTTGGGTAGGGAGGAATAA
chr3	TCTCTGCCTTACTAATCAATCACTGGAA	CAAAAGATTCTTTGGGAAAATAATGGTCCAA
chr3	GAAAAGAGTATGACCAGAGAAGCAAAATCC	GAACTGAACTGGTTAACGATAGTACAGACA
chr3	GGGTGAAATTAACGCAAATTACTCATGAA	CAAGCAAAGGATGTGAAGATCTTATCACT
chr3	GAACGTACTCAAGAGATCAGTAAACCAA	GGTGTATGTGTTTGTATATGGATGTCGTATA
chr3	AGTTTAAAAATTCCAATTCAATCAGTGCCAAT	AGCGTCAATACTGCGAACTTTCTG
chr3	CTAAGAATACCAAGAAAATTAATAATGCACGAGAG	GAACCATGCAAAGTTTCTAAAGGATACACA

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr3	AGCTTAAAGAGTAGGTGATATGTTGCACC	TGTCACCTTCATCACTTTACCATTCTCA
chr3	CATCAAACAATAGTTCATTCACAACCTCGTT	TCCACCAAGCTTGCATGGAAG
chr3	TATCATATGTAGATCTCAACTCCGAGCAAG	TTCGTCTCGAGTTATGAGAGGGTAG
chr3	CACCTCAAGTTTGCAACCCAAAT	GTAAAGGTTGCAGTCAAACCCTTTATTAGA
chr3	AGTTGATTTAAAAGAAACAAATGAAGTTAACCTT	ATTGGATGTGAGCTAGAATTAAGCCATAGG
chr3	ACTTTAGATAAACATCCACATCAACCGTT	TTCACTTACATAATCACGGTGTGAAGTC
chr3	CCCTTATTCAAAATCTAGAGTTAGCGTT	GTTGTGAGTATGGATTTTAGATTGTGATTCACT
chr3	ACACCAAAGTGGGGTTTAACTTACAA	CTTCAACTTTTCGGTGGTTGCAATC
chr3	GGGTGGTGCTTCGTTAGTTCTTT	GGACAATGATGATTAGGAGAGTAACTCATCT
chr3	TCACAAGTCACATTTAAGCTCGGTTT	TTGTCGAGAAGACAGAGACAAAGGAACG
chr3	TCTTTGTTCTATCCTTACCAAGGAAAATCCG	CGAACATTCATTGTCCCATCATAACTTTA
chr3	GGTGTAGGAGAGGAAGATATTGGACA	AAAAACAACAAAATTATCTCGATCAAGTTTGTAA
chr3	TGTAGGTTTATTTGATCTTGCACCGTTC	TCAAGAAAACCTTGTTTCGTACGAGGAAC
chr3	TTCTTTCAAGATTTTTCACGTGACTCCTAA	CATGAGAAAGAAGCTTAGAGGTAGCTCAG
chr3	GATCTATGATCATGAGCAGGCATGTA	GCCTTCTATATACAGGCGCAGAAATGT
chr3	ATCGCTATATTCAAACACAAACACAAGGT	TCACTTGAATGCGTCGTGTCATAG
chr4	TTCTCTCATCTAAAGATACACGATACACACT	CGCTGTACTTTTAGAGTCTGGATTTGTG
chr4	CATCAAAAACAAACCAACTTCAAAGCTTCG	CCTTTGCTTGTTTGATCGCCATG
chr4	TTGGTATGGTTCATCGCTGTGTT	ACGAGGAAATTTGAGTATGACCTTCATACT
chr4	TGCTATCAAATGCAACTCTTTGAAGCA	AATTGACTTTGACGTCCAGCTCATAC
chr4	AGTTTTAATCTCCAATGGTTGCGATCTA	CCAATTGTCTCCTTATCACATTACTACACCG
chr4	AGATGGGCTTTTCCAAAGTGGAAG	CACCAATAGACAATTCGATGATGAGTTGA
chr4	ATTGAATGTCGACAAGAGAAATAGTGTGAA	AGGGAGGAAGATAAGGTGAAAGAAGAG
chr4	AAGCACTACACAAAATTTGGAATATAATGCA	AAGGGTACATTTTTCGATTTTAAGCCAAA
chr4	CAAAAGCACAAACCAAGGAATTGGATAT	GTCGGTTTGGTGATTTTAATGTGCAATTAAA
chr4	CAAGCAGTTTCGAGTTGTTGAAA	GGCAGATTTGGAAGCACTGCTAC
chr4	AATGAACTGCAGCCCAATACTAGATTT	ACTCCTGCCCATCTCCTTCTTAATATTAT
chr4	GCTTGGTTTTTCAGGGCAGTTTTTT	TAGTAGAATGAGAAAGAAGACTGACGAGTC
chr4	ATACACCCACCGGAATAGCACC	AGAGAAAATAGAAAGGGAAAAGAGGAATAAAGA
chr4	AGACTTAGGAGAAGCCAATGTAATCCTA	CTACTATCATGTAGTCACCATCAATATCGCA
chr4	CTATTGATTGCCTCCATCACCATTTTCT	GGACTCCATTTGTCTTTCAGAAATATCAAGGC
chr4	GGGTTCAGATGTTGTGGAATGT	CAAATCCAAAACAGACTCTACTCCATTCTT
chr4	ACGACTTGGTTACGGTCCAAATG	AGCCCAAATCTACACGAAAAACCATATTAC
chr4	GATTGGATCCGGGTGGAAGTTAA	AAAAATGGTGTAATTTTCATCAATCGGGTAAG

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	TGGTCCAAGTATTAGCATGATATCCTGAA	CTCACACACATAGCTAGGCTGTTTT
chr4	AAAAACACAAAATTTACCACTTTATGCCT	TGTAGCGTAATGGTTCTGCTTTCATTT
chr4	CACTTCCTCTTTGATCCACTCGAAC	GAAGGGCTCCTAAACAAGCATTTCC
chr4	TTCTTGCAATTTCTAAACAACCTCAAAACCTC	AGGTGGCCACCTTGTTTCAATAAC
chr4	ATCCAAGTATTTCAAGTGTGTACCAAAT	TCAATGCATCACTAATACACACTTGATACAC
chr4	AGATAACCCTTCCGACAAATACATTTTATCAT	CCCATTTATTTAACCATCATGTTCTCTTTTTAGG
chr4	GGTTAAATCATAGCGAGGAAGACATTCTT	ACTTGAAAAATAACAACTTGTTCCAAAGAT
chr4	ATTAGCATCTCTAATCAAATTTGACCTAATCCT	ATGCAACAACAAGTACTAAGTACCTAACC
chr4	TTTTATTCAAGCTTCCTTTCTTCCTCCTC	CTAATCAACCAAAACTAAGAAAGTTCGCAC
chr4	ATGGAGCTTAATTTATTCATTTTATAGGGTTACCC	CCCTTGATTCAATATGTTTGGGCTATTC
chr4	AACATAAACTTTTAACTAGCTTTTCCTTAGTCTC	TAGATGTTGATGAAAAGACCATGACTGTAGT
chr4	CATGTGCATAATAACAAGTTTGAAAAGACGA	CTTGTTGCTTAAAACTCCTCTAAATCTCAT
chr4	GCCGTCAATCTTGTCACCACTG	GCCACAATACTTCAAATCCAAAATTCGATTT
chr4	TACATGTGTTACAAGAGTAGATCCAAGGAC	CCTCCTTTGGGCAATCTGGATGA
chr4	GGGATTCGAAAACCTTCTGATCTTTTAGATTT	CCCTTAGTGGAAGAGAGGAATATATTCAACA
chr4	GCAGAAACGGTTGTCTGAAGTTTT	CTATACTTCCATTCCAACGAACAAAAGCG
chr4	CTCATCACTCCCGCTTCATTAAAATGT	ACTAAGTCTGTCTGTGACTTTATGGACTATT
chr4	TAGGTGTTGCAATAAGTCATCTTTTCAGTC	TGTAAGCTAAGTTTAGCAAATGTGGGTTT
chr4	TCAATTGACATCAAACACGTACTATCAACTT	AAGGGAATGATCTTGATTTGAGGATTGTT
chr4	GGTGTTTTACTTGCCACATAGGTTTTG	AGCTAAAAGAAGATGTTTAGTCTCGAACAAA
chr4	GATTAACCTTAGATTTGCATAAGTGAGTGCA	CTAATGAACAATTGATTTGTATACCATTAGACCA
chr4	GTCGCTTGCCAGTTTTCTCTCTAT	CGATAAAATGGACAACTTAACCTCTTTTCGT
chr4	CAAGATGAAAGAGACAATCAAAGCAAACCT	AAAAACTTCAATCCCTCTCTTTCTCTTTTGT
chr4	TAGTCGTCTAAAGTTCTCCTCACAGTC	CAACGAATCCATAGTATAATTCGGAAGTCAT
chr4	TTTTTGCAATTCCTTTGTCAAATTTTAAAATGAA	CCCAACATCTACCTCCATACCTTCC
chr4	TGTCTCCCAACCCAACCTCGATTATAT	TATGATGTAGTGGTTGGAGAAATTATTCCGGT
chr4	TTTATGTTTGGTGTGATTGAATTTTCTGTGA	GCCTAGTTAAGAAGTGAAGTTGGAACTA
chr4	TCAAGTGGAGACTTTTACACTCCCTATA	TCAACATTGAGAATTTGAAAGTTGGTTTACT
chr4	ATGAACAGAAGCTGCAGCAGAGGAAG	TTCCGTCTCCTTTCTTTGCTTTCTT
chr4	CTCCACAACGGACATAGCACATG	AATTTGATGTCAAACTACCATCACACATTA
chr4	ATCAACACAATCGTTTATTTATGGTCAACAC	GTACATGATCTTGTACAACATCTAAGCGAT
chr4	CTATACCTAAAACCTATGAACCCAAATGGTA	AAGCAAAGATGATCATGGTGGAAAGATG
chr4	GAAATTTGAAATACCGGTATTCAATGGCAC	AGAGATCCATCTCTTATTGTTGGAAAAACAAG
chr4	AGCATGTCACTTCACTTCCCAAA	GGCTTTGTGGACATAGCTAGGTG

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr4	TAAATCTCAATGCCTATCTTCATCTTGCAAT	CATTATCAAAAGGAGCGCAAAGAGAAAAAC
chr4	CGCAACTTAAGCAAGTACTATGGTCAT	GTTAGGATGTCGAGTTGTCTAAGCTCT
chr4	AGTTTTTGCATGTCACATAATAGGACGAT	CTTTACAGATCTTGTTCATGTCGCTCTATC
chr4	ACTACTAGAAAAATTAGCGACATAATTTCAACCA	AGGGTTTGAATTTGTTGAGGGTACATAGT
chr4	GCCTCCTCGTCTTTTCACGTATA	TTCAATAATTCATAAGTCGTGCCCTTTATA
chr4	TCACAACCTACCCAGCCTCAA	TATCTGTAGGTAAGTTGAGAAACCTCTAAACTA
chr4	TTTCTTTTCAGTTGTCATCCAAACAAAAT	AGAAAAATTCACCTTCTGACTTTGATTTGGT
chr4	ACGAAGACCCAGCTTCCTATTTTCG	ACCAGATTGGCAGACAGTTCTGC
chr4	CTTGGAAGAAAAGAACTCTAGTGTTTTGAA	TGTTACATACAGCAATGAAAGTTGGGTG
chr4	GGTTCAGAGTTGATTGTGGAAGTG	TCGTGTTTGTCTCTATCCTTCTTCCG
chr4	TACAAAGTTCATTGAAGTGGTCGGTATTG	CACTTCTTGTGCGAGTTTATCATAACGG
chr5	GAGATTGATAATGGAGTTTTTGACCATGTGT	CCTTCTTCTTCTTGTGAAACTCCCTTC
chr5	GTGCTAGAGTCACACGCATCATG	GAGATCAAGAAGTTCAAAGAAAGCACAATA
chr5	TTCTTGATCATGAAAGATTATTTTGCTGCA	TCGGTAGCCTGCAAGAAAATAACAC
chr5	CAAAATCTAGACAGATAAGACGCGTGATA	AAGGTTTTGCCAAAGTTAAGTAAAGAGCA
chr5	AGTTCCAGCATTTATAACTGCTTTGAA	CCATGCATTGAAAATATGGAGACACTATCTA
chr5	AAATGTAGAAAAATTTTCACGAAATGCAGGAT	TTGATTTCAATCTTGAGAGTGAAGTCAACTC
chr5	CGTTACATTCTAGTTGCTATAATTCTAAGAGTT	GTTGGGACTACCACACGAAGAGC
chr5	CCTATCATTAGTCAAGAATCACCTTGGA	CACAACCATTTTTCCCTTGCCTAC
chr5	CACCAAAATGCGCCTCCTAAAAT	GAAGGATTCCTCACTCCACACTAAGG
chr5	TGTTACCTTAAAGATCAAATTGAAGAGGTC	TGTTGCCTCAACAAAGTTGTTCCCTATG
chr5	CCCTACTAGCTCTCAAACCTCAAGGG	ATTACTCTTTCATCCTTCTGACCCTAATAAA
chr5	TGTCAACATCTATCTGTCTTTGCAGAAA	TGGTGATCATGGAAGTGATTATCAAAGTTTA
chr5	GTATTTGAAACAGATGGAAGCAAAAACAGT	GCACCTTTACTATTGGCGTCTGATC
chr5	GTCTAAGTTCTGTTTTGACTATTGAACTAACGT	AACAATATTGAAAATGCATATTTGTTGTCATCTC
chr5	TTAATACAAAAACACACACACACAAAACGC	TGAGCCCTAAAACTCTTAAAAACCAAAAG
chr5	GCCATGACCATCCATCAGGTTCA	CTTCAAATTGTTACCAAAAACCTCTTCCTA
chr5	CATAGGCAAAGAAAATGTTTTATGTCCCAT	GGAGGAAAGGAGGGTTCACGTAT
chr5	CTTTGCAAATTACAAAGATTGGTTTATGGCT	GAATGTTGAACAAAACAACTGTCTCGTAAA
chr5	TAACATTTTGCCTGCCAAATTAAACCAC	CTTTGCACAGAAGCGGATAGGAG
chr5	CTCCATTGAGACTCATTTCTCAACCAT	GAGAAGTTTTGTGCAAGTGGTACATGC
chr5	AAAAAGACGGTTATTGTTGTGTATCAACT	TGAATTGTTTCAATTTAAAATGGATTGACTCAAA
chr5	CATACTTGATACACAACTTCATGCATGCC	AGATAGTTTTGAACTTTGTTTAGATCAACTTTTA
chr5	GAACTCTAATACCTCCTATAACTGTCCAA	CGGGAACCTTCTTGGTTCAATTGTAAATTA

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	TGGTTTAATCTTGATTCTCCACTTCAACTC	GGCATGGGCATTACAACAACACC
chr5	CTAAATCATGTTTAGATTGATTGATTTGGACTTA	ACTAAACCTCCTACTTTTACGATGAAATAGCC
chr5	ACATGAACCAAAATGCATAAATTGATTGACG	GAGTCAAACTTTTGTGTGGGAAATTGTG
chr5	CTCGACGAATGTCGATCTCTTTGTC	ACTTGGCTAGGCTTGGAGAAAGG
chr5	ACACTTCACTCTAAAAAGGAGTGATTCATT	GCAGGGCTGCAAAATGTCTTTAAGA
chr5	ATTTGGAGAGGTTTGGGTTTCTTGAG	GCTTGTTGAGCAAAAAGGGAAGTCA
chr5	CCTTATTTTGACGTTGAGTCGAGACAT	CACTACAAGGATAGTGAGTATTGTGACA
chr5	TCTAACCTGACATGCATACTAATGAGGTT	AAACATTACCCCTAACTCTCTACCTAGTC
chr5	CTTTGTATTTTGACTTCAAGTTGTGAGCTC	GGTGGGTTCAAGTCTTGTTTGCC
chr5	GTGTTCAAAACGTTTAAAAATAGGTCCGTAT	GTTGATATTGTATTTTACGCATGTGGCAAA
chr5	CCCTTATCGCCATTATGGTACGAG	AACAATGTTACGAGATGTTTTCTAGTCCAA
chr5	TCACATCAAACAGTTAACGCACAACA	GTGCTTGCTGAGGAAAATTAGAGAAATATGA
chr5	ACTGACGACGCCATTAAAGCTAT	CTCTTTAAAAATCTCTCCTTTGCTTACGTGG
chr5	AATGCGATACTTCGTGTGAATTGCA	CATTTCTTCGTCTCCCTTTCCCTTG
chr5	TCTCGAGCATCTGAGGGTCATTT	GTTCTTGAACTGAAACGGTGTAAAAATGAG
chr5	GGTGAGCAACAACGATGAACCTA	TGCATGCATGTATAAGAGTGCAAGTAAA
chr5	CCCTTAAAAATTCTAAGAAATATCAAGACAACCT	GCGCATGACCCTGCCTTAAG
chr5	GCATGAGCAGTAGCCAGCATAAG	GGAAATCAGTGCTTAATTAACCCCTGAACT
chr5	ATTCAAAGTAATTCACCTTGAACGATTTGAG	AACATTAGTTTCGAGATGTATAAGAAACGCAT
chr5	CATTGACACATTTTGACGTGAATTCAACTA	ATGAAAACGTCGCAAGAACCCACTT
chr5	TCGAGTGTCGTTGGACCTAGAAG	ATTTTTGCAAACATCTTTGGAGCAAA
chr5	TCCAACTTGAATTATCTTCTCGCACAAT	TGGAGGAGGGATTGATATATGAGATCGA
chr5	CCTCGCACCCACATCTTGTTTAA	TTCTACGATGTAATAAACGAGGGTTACATGG
chr5	TGTTGTCTTTTAAAGTGCTACTGTGTG	TCACACCAGTAGGCCTTTCATAAAGA
chr5	TGTGAGTTTTGCAATGGAATCTCCAA	AGTGAACCTTAAATGTGAACCTTGGAGTGAG
chr5	CTCCTTGCTTTTTTCAATACGTGAAGAAG	GCAGAAACCTTGACGTGGAACCTAAG
chr5	GACTTAAGTTTAACAGGAACACCCTCAAT	GCTCTAAGGCATATTTTCAGAGGTCAATATT
chr5	CAAGTTTTTAAACCTACTTATGCAGCCATT	CCCATTCGAAAAATCTCCTAATTTCTGTAAAG
chr5	AAAGCAAAAACCTGAAGAAGATGAGTGAAGC	GCAAAAATGTCTTAAATGCTCCTAATCTAGT
chr5	AAATCTTGGCGTGTTAATGCTTGTTTT	GGGCTATCGGAAAGAGCTAGTG
chr5	CTCCAGTTCCTGAAGATAAGGGATAAATTCT	TAACAACCCTTGCACGTAGTGATCC
chr5	AATAAAAGTTTGGCACTTTTTGTTTGGTG	GGCTCATATAGGTCATGGTACACTCTG
chr5	CTACATGTGTCCATGTGGCCTAAC	GAATTTATTTGAAGGTCCAAGAAGGATGTGA
chr5	GAGATATCTCTTACAAATCCACAACCAA	TCTCGTTGGATTGATTTGAAAATTGACGG

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr5	GTATTTCTTCAACACTCTTTCCGCTTC	TTTTATGAGAGATTTGATCTCTCGTTCTCAT
chr5	TTCTTCGTTGCTAAGGAAGTTCTTCAT	CATCTCAAAAGGCATCGGCAAAAG
chr5	CCCACTCTAGTTTCCATTACAGAACAT	GTTTAATTTTCGATGATTGCAGCTAGGATTT
chr5	CGTGCAAAGTCAACATCGACTATC	GTCTTAGTTTTTTGAAAACAGTGAAAGTCGAC
chr5	GGCGTAAACAAAGCGAGTCAAAC	AAAACGGAAATTTTTGTTGGTCCTCATG
chr5	TTTTTCAAGTTAGCAAATGATGGTGCAA	ACCGTAACGATAAAGTGGCCTTC
chr5	AGAATTCCAAATTTATCTTTGGCAAATTGAAA	TCGTATAGAAGGCCAACCAAACCA
chr5	ACTCTCTCAAAGTTTTTATACCGTTCACAT	GCGACAAAAAGAAGAGAATCATCCATGA
chr5	ACGGTTTCATATGAGTTTAACTCAACGTT	TTGCATTTTGCAATTGAACCTGTGTTAATAA
chr5	CCTTACCACTTCTTAGAACGCAG	CCCACTCAGAATTTCTCACCCATTTTC
chr5	TCACGTAAAATAAATTATGCAAAACCAGCAT	AGCAACTTTTGAGGTTTCATTTGTATGTACG
chr5	CAAGATTACTTATCTTCGAGAGCTTCGATC	ACAGCTCAAATTCAGTTATTGAAGAAAGCT
chr5	TACAAACCCCTCCTTGGTCTTTTCCA	AATGGTTGTGTACTATATCTGCGCTTTATA
chr5	TCGCAGTCCAAAAATGTTCTTGCT	CACACACGCATAAAGAAATCAATAGTTGTG
chr5	GTTACTTTTGAGAGTGGAACAGTTCGA	TCATCATGACAACCTTTATGTCTCAAACACAT
chr5	TATAGACATGTCTACACATTTTCTTGATGATGGC	CTATTTCTTTCTTTGCTTTGTAAAATAGGGTCAA
chr5	ACTCAACAACCAAAGTCCAGTGTG	TGGAGAGAGTGAGGACTTCAATA
chr5	TCCACAATGTTTTAGGTATATTTGGTTGGAA	ACACTAACCCGTGAGTTTTGCATT
chr5	TGAAAAAGAACTTTGTTGACGAGGGAA	ACAGACATTCCTAAAAGAAAGTAAATACATGCTA
chr5	GTCAACTTGCACACACCTCAATT	CCTGCAGGTGATGAAGAGTGACA
chr5	AGATCTAACGCTTTCAACTTTTGAGAAGTG	CGGCTTCCAACCCCTTCTTCTATTCC
chr5	CTCAAACCTCAACCTTCTCTCTATCCAATTC	TCTTGAAAGCAAGAATGAGCTGAGAG
chr5	ATCTTAATGACACGAGGGAGTGAATGT	CTCCTTAAGATGGAAGAACGTGGATTATCT
chr6	ATTAACATAGCTAACTTTGGAAAGTTTCTCAATT	AAGCCATAAAGTGACGATTAAAGATCGAA
chr6	CCTGAAGAGTAAGGTTCCCTGTGATC	GTGGAATTATGAAAGTTTAAAGACGGATGTG
chr6	TCTTGGTCATATAGGGATTATCTTGTCTATATTT	ATGAACATAGCTAACACAATGTCAGAAAACCT
chr6	TATCTCACTCACTACACCAAGTCGTA	GGAGTGTCCAAATAGTTAAAGAATGTTGGTT
chr6	AAGTTTGGCCAAATAAATGTTGTCACAC	AGCTTAATCAGTCCTCAAGATTTTCATAGCT
chr6	AAGGGCATTGAGAAGGATAATGGAGT	TGGAATAAATCGTGGGATTTATGGTTTTGG
chr6	AGACAATGTTAATGTTGTTTATATGGTGACTT	GGATGAATAATGTTAATCTTTACCTATTTTGTG
chr6	CCCTTGATTGATTGCCTCTTGAT	TCAGAAAGATTGTCTCTCCAATATAGAACTTGT
chr6	AGCATTCAAAGAATCCAAGAGAATGGAC	TGAATCGGATAAAGCCCTCCTTATACTAAG
chr6	AAAGTGAAAAGACTATCCTTTTCCACCAG	GGATTCTCCGACGATTAACATCATTAGGC
chr6	CCTAAGGTGGTGCAGCAACAAGA	CCCTTTGTACGTGTGTGCTCTTC

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	ACAACGAGTAAATAACAACTTATGAGTCAACTT	TGCATAATTGTCATTTGTTCAAACCTTCGTTG
chr6	GCAGTTCTCATATAAAGAACTCCATCGTG	GAGAGCCATTCTTCATGAGCTCATATACT
chr6	AAATGTTAGATATTAACTTGGGCCTGTCAAT	TTGAAATTTTACGTATTGTGTGGTTTTGGAT
chr6	TACTTCTTTTACCTTGAAACATTTACGGGTA	GAATAGTTTAGCTCTACTACTCCAAAGGCC
chr6	CTTTGCTGCAATCTTTTCGTTTGCG	TGCATTCAACCACCAGAATAGCTTG
chr6	TAAGCTCTACTCCAAGCTTCTAGGTTTC	TGGTTGAATTTCGTTGTGGGTAGATTA
chr6	ACACACACCCATATATGTAACTTTTGT	ATTATTTCAACGCAAGCATAGTTACTAGGAC
chr6	CTTGTTGGAGGGTTGAGTTCCAA	CCTCGATTGTCTAGGACTACCAATAATCC
chr6	GATGTGTTGAGTTCCACCTAAGTTAAGTT	TCCAGAACAATCTTGTTTTGCACAGG
chr6	ATGGCTTACAAATATTTAAAGGAGAAACAAAGTT	CGTAAAAGATTTCCTTTAGGTAATAAGGATCCAAA
chr6	CTTGCTCTCATTTTTGCCTATTTGTG	AGAAGCATTCAGAAGGCATGGATG
chr6	AATCGCTCTCAAACTGGGATTA	CAAGCAGCTTCTCAGGGATATCCA
chr6	AATTAGCATCTAATCCAAAGGTTTCATAGCAT	TATGAAAATTGTATGTGTGCTCATGTGAGAT
chr6	ACTTTGTATAAAGAAGAAGTGCTAGGCTAG	GGAAGAGAACTAATGGTTTACAAACAAGCA
chr6	ATTAGTTGAATCTCCAACCAAGCCTTG	GATGTCACAACCACAGACTTTTCAAAC
chr6	TGGACACAAATAGGAGTGTCATGGT	GGTGCATGTGGATACCTCATATAATGTAATC
chr6	TTTTTCACTCAAACATTCTTCTACTAAAACCTTTA	TCAATTTAAGAGAAAGAGACTAATTCTTCCGACC
chr6	TAGAGGTGAAATCCAAAACCAAACCAA	GGTGGTTGTGATGTTGTAATTAATCTTCCT
chr6	TCTTAAGAAGTGATGTCTCACATCAATGTGT	ACTAACTGCTATTGATGTTTATCGAATGCA
chr6	AAAGTGTCTTAACCGAGACATTTGTAAACA	GGTATTTCAAGTGGTCTACTTTTATGGTGAA
chr6	TGTTTTTAATCTCTTACAAGCATTTGGCAC	AGTACATTTTGTAGTTACGTTGGTGGTTT
chr6	GAAATTTGTATTAAAGTGGAGAATGCTGCAT	ACACGTCGATTTTCCTTTAGCTTTCTAG
chr6	TGAATCTTCTACAACTCACAGTTGATTGAT	ACATCTTTTAAAATGCGTCATGATTCTAGCC
chr6	GCACTTCACGAGCTCGATGTAAT	CTACAACAGCTTGCATTCCCTAGGAG
chr6	AAAGAATGGGTTCGGTAAACTTGATGAA	AGGCCCAAGATGATTTAGATTCACTATGG
chr6	TCCAAGTTTTAGTGTGCGACTAACTTGAGA	CCGAACCTGGATTATCAAAGTTACTGTGTTAT
chr6	TCGAACTTCTCGAGTCGTCGATAG	ATAACAACCGTCGGAACACAGACGTC
chr6	TTGGATGTTACTAGACATGATAAGTCCAAAT	CATTGTGCCTACGACTTTTCCTTGATAA
chr6	TGCAATTTTACTTTGTTTCACAGCCAAA	AATTGACTATGAGGCTTTGAGCACAA
chr6	ACGGCTAACTCTTTTACAATTTCTAAAGAT	GAGCAATAGTTGTCAAGTACTATTGGCTA
chr6	TGTTTCATATGACTCTAGGTCCACTTGTC	CATTTTCATCCATGAAAAAGATAGCGAACTA
chr6	TGAAATCTATAACATGAGGTTGGTTGAGTCG	GTTGAGTGAGAAAAGAGAGATTTTATTTGTACGC
chr6	ACCTAGGATCATGCTCGACCAAC	TCACTGAAAAGCTAACCTTTCTGATTACATT
chr6	TTCAGTTCTGAATTGACACATCATGTAGTA	TATATCCATACAATCACAGTTGCAAACAGAT

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr6	GGGCAATATGCTGCTTTAATTGAATT	CAAACCTCTTGTTATGTCAAAGTTAATGATAGGGT
chr6	TGGAAAAATCACAGCTTTTGAAGACGA	AATCCTTTAAACACTCAAGCATTGGATCTAT
chr6	TGGCATTGATGAGAGAGTTTGGATG	AAAGCATTGTCCTAAAATTGTCCTAAACCA
chr6	GGTTGCATAAGACCGAACTACGAC	CACGTAAGACGGAAAAGAGTAAATTTTCATCG
chr6	GTGGAAAAGACGACACGTCGGAAAA	GCTTTTTTCCTCAGCTAATCGCCTTT
chr6	AACCCTTACTATATTGCAAAGACAAAAAGTTAA	AAATGGAAGTTAGGAGAGTATAGATAGGTCCA
chr6	CTAAGTTCGAATCTGACACTGAGGTTG	AACTTGAGTATGATGAAAAGGACTACCAAGT
chr6	GCGTCATATTTCACTCAACTATATACTCCT	TGTGCCATCGAGTTTTTCATCATTTGG
chr6	GTTGGAGAGAAGTTTGGTGAAATAGACA	AGTCTTACTTTCAAATTCATACCCTCCAAA
chr6	ATTAACGTACTTGTTTGTCCCTTTTGATTGA	TTCGTCTCAATCAACTAATTAGTCCAATTTG
chr6	TTTTACATCTTCAGTAATCAACTGCCTCAT	GGAGGTGTTTCAAGATTAAATGAGGTGATAA
chr6	TGATTTTGGTATTGTTTAAAGCAAGTGTGTG	TCAAACAAGTTCATAGGATTTTATCACGGAA
chr6	CACTTACTTTCAAAATGGACGAACCAT	CTTCTCAAACAAAAGATCATCGAGCATTTTT
chr6	CGCAATAACCTATCATGCAATGGAATTT	CTAAAACAACTTTATGCAACCGTATCCAAT
chr6	TGTTTCTTAAACTGATGCCTTAATTTTCTCCT	AGAAAACTATGGAAAACAAATTTCAAACCCAA
chr6	GTGCTAGGCGAGCAACACCATG	TTCTTTTAAACTCTTTCATGCCTAGACACTT
chr6	AAGTTTGGTTTTGATTGATTGTGGTTTTGTAG	TTGAAGACAAAGAGTAATTGAAGAAAAGGCA
chr6	AGTATTCGATGCCTTCTATATAAAATTTATGGAT	AGGTACATTACTGTGACTAATTTTCAAGTTTGTG
chr6	CCACGAATCACTTCAAGACTGTATTGT	AATCAAAACAATGTACAAGTTGAGCCAAC
chr6	GGGAGTTAATGAATTTATTTGGTTGGCAAA	GTGACTTAGAATCTCCCAAGCCTTTG
chr6	TCCTTCTGGAGGCTTGTGAATTGT	CTAGTTGTCGAGTTAAGTAAAGCTAAAAACATAA
chr6	CTGAAAAGGATTCTGAAGGCTGAAATT	CTTCTTCACTTTCCCACTCTAATCTGGA
chr6	TTAGGATCGTTGGGCTCTTGTTTTT	CTAAACATTTGAGTTGGTTGGATCAATTGAT
chr6	TTGATTACTTTGGGAATTAGGGCCAATC	ACTAATAGAACCAGAGATAGTTTGTGACCTA
chr6	TTTTTATCAACCAACACTTTGCTGGTC	CCCTAGTTGTCACCCAAACTCTTACA
chr6	AAGCTTATTGCAATGAACTAAGAGGAGAAA	CATGGTTGTAGGGATTTCTGGCTC
chr6	TTCTCTGTCTTCCCATTTGACTAATATGCA	TGTCCTCGAGATCTTTCTCATTTCAAATGT
chr6	GGGCTTATTATGATCATTGATTCTCCCAT	TGGATTTAGGAGGTGTAGCCATCTC
chr6	TGGTTCTCCGTGCTTAACTGATCA	CAACTATCTAATGGCTAGCCTATAAGATGTA
chr6	AGGTTACTTTCCAATGTTTTTCAAACGTC	AAGCGATTTTACCTTTAATTGTCTACCCCTT
chr7	CCATTACAGTTTGACTTCCACCTTCTA	TCCTCTCTTTTCTCTGTAACCTTAGAAGGAT
chr7	GGGTTTCATGAGAGAGTGGAACAT	GGTTTGAGATGACATAAGATCACTTTGTCTC
chr7	ACAACCTAACATTGTCGCTATTACATGTAAC	GTGTTTGGATCTTGTCAACATTAAGCCT
chr7	TCAAAGTTTTGGCAAGAACGTAACCT	TAGGTTTTCCATGTTTGATAAGGGAAAAGAG

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr7	ATTCATCAAATGAGGAGTGTC AACCTT	CCATAGAGACGAACAAAACCTTGACAAA
chr7	TCCACACATACTCTTACATCAACTTTCTTCA	AAAAAGGAACAAATTTGTGGAAGTTTTTGT
chr7	CTTGACTCATGGCGTCAGACTTG	GCCCTTTCACAAAGGTATGCTTCC
chr7	TCCAAAGATGAAGCTCGAGTCTTTTT	CTGTGATCTTAATCAGTCCCAAGTTT TAGAC
chr7	ATTCTAGTCTTTTAAGTCATTGTACACCAT	ATTTTCAGTTGCTACCATGAACAAAGAAGA
chr7	CTTACATTGACCAGAAAACAAACCAATCAT	CCCACTAATGGAAGATCGTTTTCAACATTAT
chr7	TCCAAATTCCATCTCTCTTGAATCTTTCA	ACTCAGTCACTCATACTATGATAGGAACAAG
chr7	TTTTTCTCACATGGTCGTCAATTTTATCAA	ACTCATAATTGAGATCGAGTTGCATACAATC
chr7	CATAAACATTAAGTTCAAGGACCGAACTC	TGAGATTTGGAGTGGTGTTCCTTGC
chr7	AACCCATTTTTGGACTTTCTGTCTCTT	GCTGGGATAGTAGTCTTCGCTCATAAA
chr7	GTCAGTGCTCAGAGAACCATACATT	TAGTGGTTAACGCAGTACTTCTTTCTATTGA
chr7	TACCAACAACCGACTCAATGACAAA	ACCAAGGGTGAAATCAACTTTTAATCCTAAT
chr7	ACCCGTCTTTTCATTGTCTTATACATAGTCT	AGTTTTAGCAACAACAAAAGAACATCCAAC
chr7	TCAAATAGCATAAACTCAACACCTTGGAC	TTTATTGTACAAGTGCGCAAGAAGAATGCA
chr7	ACTCGTACATTGAGACCAACACTTAATTC	GTTTAGGTGGGAGAAAAGTTCTTTTAAACCA
chr7	CATAAAAACATCGAGGAAGGTATTCCAGT	ACAGAATGAAACAAGCTAGAAGAAGAAGAAT
chr7	GTTACTCTTTCCCAACACTGCTTGT	TCATATCACTCCCGACGTGTACATG
chr7	GCTCAGTTTGAATGGTATCATAATGTGGA	TTTTTGTGGGTGTGTTTTTAAAGGTTGT
chr7	CCTTAGGCATTTACATATCATATGGAAAATGAT	TGATGGTATTGGTGAAATTTTGGTAAATGCG
chr7	ACAATCCACATGCCTAATACATATCTTTCAC	CCATCACCTTATATTGTGACAGCAGTG
chr7	GAGCCAACCGCTGAATTAAAGC	TGAGCAAGTGACAGTTGGTTATTGATA
chr7	TTTTGAAATGTTTTGATGTGACGACATGAA	CTCTGCAGTAAGAAAACATAGGAGATACTA
chr7	TTTGAAGTGACAATGTGGGAAAAACCT	CAAGGGAAATTAAGACTAAAGGTGGAGAG
chr7	GGTGGCCGAAAATCTCCAATAGT	AATCGAATACTCTCTCAAAATACCAACGAAT
chr7	GCAGACCAGTAAGCTTGAGCTAT	TTACGCGAGATACAAAGCAAGGAAGC
chr7	CTTCTTTTACAGCTATGGCAGGAAGAA	TTTAAGTAGAGCCTCGTTGAAAAGAGTTA
chr7	AAATTTATTGACTCACATGCATAGTGCTTCT	CTCATGATTTCAAATGTTTTCCACTTTCCC
chr7	ATTCCAAAACCTAGTTTCAATAAATATCACGCA	AATGAGATGAGATAAGGCTTTAAATTGTTTGCC
chr7	ATGTGAGACTTTGATCACATTCCCAAC	ACAACACATTTATCTAAACTCGAAGCAAAAA
chr7	TACCAAATTGTTTCATTAACCGTACGTAGTA	AGATATGCCTGAAGTACACCATTTGTTTTAA
chr7	CTTCAAGGAGAACTTTTGAAAAACAACCT	TGCAGGTGTACACTTCTCATTTTGTT
chr7	CACAACAAATGGATGGGAAAATTGAACATA	AGCTCTTTCTTAAACAAGCTTAAGGGTAGC
chr7	GGAGTTATGCGTCATAGTAGGAAAACCT	CCTCTCACTTTCTACTTTGTGTTCTCTCC
chr7	GTTTAATGGTTGCTTGTAATCAGTTGCAA	CATCTTCACAGCAGCCTCTGTTT

表 A.9 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr7	TCAAATGGTTTGATATAAGTTATGAGACTGAGGA	ATCATCTTTATATCGACATCTTAATTTTACCGTT
chr7	CAAATATCAATGAATCAGAGAAAAGAGACACGT	ATCTTACACTTTGAGAGAGCCTAAACACA
chr7	TTAAAGGTTGACCTTCTAACCTCAACAAAG	CATGTAGCCCAATTTGTTACATGACAGT
chr7	ATTTTCAGTGTTCCTCATTTCAAAATTTGAGTC	GGGTTCAAATCTCATACCCCTCACATTTG
chr7	GTAAACTTTTCAAGATGACCCAATTCATCAC	TTAGTTGACTTTTCCAAAAGAAAATTTCTTTTGC
chr7	TACAAACAAAAGTATGTGATGACATCCTCAC	AATCCAGAATGCCAAGGCCTAAAG
chr7	CTCTTCCTCAACAACATCAGCCATAA	GGATTAACCCGGAGAATAGCCAAGA
chr7	ATGAAAATTGGAAGTGGAGACAAAAAGAAAAA	TTTAAGTCATAGACATGATGTGAATTTAGTGTC
chr7	TGATGGCTACTTTGCAGTAAATGGAG	CTATTGCATTGGTTGCCTTCCATATTATTCA
chr7	TATTACGCCAAATGCAGGTAGATAACTACA	ACCAAACAGAGTACGAAAAGATATGTCTTTC
chr7	AACAAGTGCACGATGTAGGATAGGA	TAAGTCAAGTGAAGTAAAATTTGGCCAACTT
chr7	CGATGACTCAGTTCGATAACACATTATCTA	AGAATGCTTGACAGTAAAGCTAGTTGTTC
chr7	AAAGGCAGATGAAAACAATTTGGTTTAAT	CATTTTGTCTTTATCTCTAGCCCTTCTGTAA
chr7	TTCAAATCCAAGGCTCGAGGATTC	CTGCCCTACTTTCTCTATACCATTTTGAAC
chr7	CAGACAGGCCTACTCCTTTGAAT	CCATTTTGGTTATATTTTTTGCAACTGACGAA
Scaffold 000113	AACAAGGACTTAGCTATTACACGATGAATA	AGGTCGAGGCATGTTTTAGCATT
Scaffold 000122	GGAATCTGTGTTTTTATGAGTGCCCTAAG	CATAGATCGACGCGTTGTCCATAAA
Scaffold 000137	GATGGCTCATGAAAAGCTGAAAGGG	AATAATAAAGAAGCCTTCGGTTTGCATGT
Scaffold 000143_3	TCTCAATCATCCATATCAGTGACATTATCCA	TTCAATTGGTTTCAACCTTAAGTTTCGGT

A.10 艾草 MNP 标记引物

艾草 MNP 标记引物见表 A.10。

表 A.10 艾草 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ACC1_K55	AAATCATGTGAGAATCAAATTATCAAGCCTT	CCCTTAATGCAGAAATTTGGATTCTCACA
ACC1_K55	GATTCAATAGGGATTTGATCGAACTTGAAGT	CTACAGAAAGCATAACCAACAATGACCC
ACC1_K55	ACCGCTACGGCATCTTCAAAG	GGTGTGCTGTTGTGCCAAACT
ACC1_K55	AGATAACTACCGCTACTCTGATTACACTTC	GATGATGATCTTACTTTTGACAAACACACAC

表 A.10 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ACC1_K55	TTTTACAGTTGCTAGTGTTAAAAGGCTTC	GATCGCTTGCCAAACTCCAAAAG
ACC1_K55	GGCCGTGAAAATCACCAAGTTCA	TATCACTGATGTGGCTAGTCCTGTT
ACC1_K55	CTAGCTATTGAAGACTGTGTTTGAATAGGAA	AACGCAAGAACAACAATTGATTGATCAA
ACC1_K55	CTACGACAAACTGTTGCAGCGC	CACATCCGGTGGGTCTGTC
ACC1_K55	GAAACTACACAACGACTGATGAAAACCA	GCTTCTCACGCCACCCTATTTTG
ACC1_K55	CTCCTATCCTTAACCAGATGGGAAAATC	GAACCATGGGTAAACCACCCATTT
ACC1_K55	GCATATTATGCGTGTAGCCATACTTCTA	TCGATGATGAACATATAAGAAACAAACCCTA
ACC1_K55	GAAAGGAACGCAAGCCTTTACATC	GCATCTTCGATAGCGGCAAAGTG
ACC1_K55	CTTCTAGCTACAACATATGACTGCTAACTT	AAATGATGGCGGATGGTTATGGTG
ACC1_K55	CACTTGTAATAATCTTGTCCCAAAGGTTTC	GCTTGTTATTAAACCTTAGGACATGTGCTAAT
ACC1_K55	GTAGACCCAATCGAGGTCATCACT	GAGGGTTGTGCAGTTAAGAAAAAGGG
ACC1_K55	GACCTTAGTGACCACCTACATGAAGG	TCCTGGTGAACCGTATTAGGCTC
ACC1_K55	GAAAAAGCAACCATGCTTCTTTTGATATGT	GTGTTTTCACTGTCACATTGGCATC
ACC1_K55	TTCCAACCTCGAGAGCACGCAAAC	TTGAATTGGTTGGAAATGACTATTAGAGCTG
ACC1_K55	GAGAACTGTCGTCGCTTGGTT	GTGGCGAAAGCGACGATGGC
ACC1_K55	ATTTCTGTAAATCTCAAATGAGTACGAAAGAAG	GTAAAGCCGCAGTTAAATGATTTAATCATTTGT
ACC1_K55	GAAAACTTAAAAGCCTTGAGTTGTGACTG	ACTTGAGGTACCATTGGGTTGATACG
ACC1_K55	GACTTGCAAATAGCAGCAATTTTGT	AACTTTTCAGGCATTTGTTAGGAACTTTTA
ACC1_K55	ACTTAAGCATGTTCTTAGTTGGTGGTT	AACGGCTCATAAGCTGAAAAGAGAC
ACC1_K55	CCAAATGTGTGCCAATTGCGT	TGTCGATGTTGTTGCACGGTATC
ACC1_K55	TAAAGTCTGTCGGGAAAGCTTTTGAC	CATTGTAGTGGACACTGAGTATAAAGATCTT
ACC1_K55	CGGTGTGAATATGTTTCGTCGTAAACG	GATGGTTCGTGCCTGGTACAT
ACC1_K55	CGTTGGTGGATTATGCTTGCACTAA	GCCACTAACCATAATAAGCGAAATACTGA
ACC1_K55	CGTTGATTTAGATCAAGAAAACATACACCACT	GGGATTCGCCGTCTACATCT
ACC1_K55	CTCTCATAAAGATCGTGCCTATAAGCAG	GCACCAATGATGTCACCTGATTATCATTC
ACC1_K55	TCTACTATTTGTAGTCGGGTGACAAAAGG	AATGGAAACTCAACAAGATATTTATGCTGCC
ACC1_K55	TGGATGTGATCCAATGGTCCCTAGAT	GCCGAATGTGAAGCAACTCTTGC
ACC1_K55	GAGTTTGAAACAACATGGCCTGATT	CGGGTACGTTGGTTCCCAAAAC
ACC1_K55	TCCTCTCTCTCACCCACGATTC	CCCTCTTGTTGACTATGTGATACT
ACC1_K55	TGCTAGTGCTCGTTTTCTGCTTA	CTCCATTCGACCCAAGATAAAAAATCAAAA
ACC1_K55	TAAGGGTGAAATAGGGTAGGATATGGACA	TGTGGAGTTTGAGGATGATTTAGAGTTGG
ACC1_K55	ATGAGGCCAAAGAAGCATTTTGTAGCC	TACCGAAGTTCCTATTACCTCCTCCG
ACC1_K55	CCGCGATATGCTCAGGTCG	GACAGCTGGGACTCGGAA
ACC1_K55	GTTAGAGTTATCAATCCTTCTCGTCTTGTG	TGTCGAGAGGGAACGAGAAATAGAG

表 A.10 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ACC1_K55	GGTCAATGCAAAATTGCAGGTAATTTAAAT	TGAATGTTCTGCCATGTGCTTG
ACC1_K55	ATCTCTCACCAACCAATGAGCCC	CATAATAAGAATACCAGCTTCCTGGGAAG
ACC1_K55	GTTAATCACTGAGATGTATGTGCAAATTGAC	AAAAGTGCCTCAATTAAGCACAAGTGC
ACC1_K55	CAACTTGTGTTAATACCTTGACTGCAG	CGATAGCCAGCACGTGCATAC
ACC1_K55	GGGTTGTAGGGAAGGTAAGTTGAA	ACTCAATCTGCATTGGAACACACAAG
ACC1_K55	CGGAAGCGCCAGCAGTATTA	CGTCTGGTGGTCGGAAGTG
ACC1_K55	ACGAACAACAAAATTGATCTCAGTTCGA	ACAAAATTGCTTATGTGAGATATATTTGTGGTGT
ACC1_K55	GTCATCAAAAGGGTTGTGTATCATTTCCCT	CTGAGACAATAACATCGGTATATCGTCTGA
ACC1_K55	TCACACTCTAATGTCCTCCGTGTT	CATCAACACTACTCTTAGATCCATACATGAAGA
ACC1_K55	CGTACCTGATGCGGGTCAG	TCTGGTCGAGCGAGTTGGC
ACC1_K55	ATCTCGGAGGGCACCAGAGAC	GCAGCCCTCGACGATGATCA
ACC1_K55	TAGAACCGCTAGGTTAAAAGCCATTTTC	CTTTAATAATCGTGGCCTTGATTGCTC
ACC1_K55	TGGATAATCACTCATAATCATCCGAATCAC	TGTTTAGGGTTTTTAAGTTTGAGAGCAAATGT
ACC1_K55	AAACACAAATGCAAAGTAGTGTACCAG	GCTTTGGACCTACGGATTCTTCCA
ACC1_K55	GTTTGCAACATGAGTTTTTGCAGCC	CGCCTTGTCATGTGTAAAACACTGT
ACC1_K55	CCAATTCACACATGGGTTATGTCTGT	TGATTTCCCTTGAATGTCGTTGCAAGG
ACC1_K55	CATCCGACGATTATGACCGCTTG	CTATGGCTGTCTGTCTGAGTTACATATCG
ACC1_K55	AGTCCAAGAAAAGGATTTAATGGTTTTGGA	AGTAAACAAGCCCTGCAGGATTA
ACC1_K55	CCACGGACGAGGTTTCTGAAATG	ACAGGCAGTTTGCATCGTCATATG
ACC1_K55	GGGTGAAGGATCAAAATAGAAAAGAACTG	CTAGCTACAAGTGTGTCGTCGTGATG
ACC1_K55	ATCTTCTCATCTTTGTGAAGGTATTTCAAT	AAAAAGGAAGCTACAAACATTAATGATGGGG
ACC1_K55	TGAGCTACTATAACCCATAGCATCCAC	GGAGCTCTAGCCATGGAGATTTGG
ACC1_K55	AACAGAAAACCATGAAAATCAAAGCCAA	CATAATACCGAACCTTCACACCAAACTAG
ACC1_K55	TTTCTTGACGTACCATCAACATGACAT	GGGTGGTTAAATAATATTTCAATCTTGATCTTTG
ACC1_K55	TGCACGATTTTGGGAAGTAAGTTGATGT	TACTGACACTTGGCATAGTTATGAATTCGC
ACC1_K55	TGATACAGAATATCCTTAGCACCACTTCTG	TTAGAAGTCAACTGAAGCAGCTTTGAA
ACC1_K55	GGGTGCATAGAGACAGACTGAGAT	CACCTTACCACACAGTCGAGTTC
ACC1_K55	GACCTTCACATCTTTTTCCTTCTCCTA	GGAACCTGTGTCCAGTTCTTGAG
ACC1_K55	TGCTTCATTGTACCTCATAGCCACC	CGTACAATTGGTTTGAAAAACATAACATAGAACA
ACC1_K55	CGACAGTTATCAAAAGTAATTAGGAACCACT	ATGCGGCTCATAGTTGTCCATG
ACC1_K55	TGGCAAAGCTCAAGCTCATCAA	GGAGCCTGCCAGGAAGATTGG
ACC1_K55	CTTGGTTAAAAATGCCTACTCAAAGACCT	TAGTGTAGAGCTTTAGAGAGTCTTTTGTA
ACC1_K55	CTTCCCAGAAAAGAAATAGCCGAGAAAT	TGAAGTTGAACCAAAGGTGGTGAG
ACC1_K55	TCGCACATTAGTATCATTCACATCTAATGC	AATTCACAAAATCGGAATCTAAAAATCGCAC

表 A.10 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ACC1_K55	TCACAATCCCTTTCTCGTAGGCTAA	CGGTTATGTGTTAAATGGTTATATGTTGCAA
ACC1_K55	CTACTTTCCACACTTCCGTTCCAA	AGGTTTAATTATTATAGGCTGAGAAACTTGCTA
ACC1_K55	AGTCAAATCAGGTTTAGCATTAAGTCCAA	ACAAAATGCCGTCAGTCAAACATTTTC
ACC1_K55	TACATTGGTTTATAGCATGTGGCCATTT	GTTGCTTCCTCGAGAATGGAGTC
ACC1_K55	AACCACCGGATCCATTCAATGAA	CAGATCGAGGGACATGTACAATAGAATT
ACC1_K55	GTTACACAGAAAAATGTGAAATGGCGATG	GTGAGGGTTATAGCTGCAACAAAAAGA
ACC1_K55	CTGTGAACAAGTCTTCATTACTTTGTAGGAG	TGGTCGTTAATTCCATATAAAGGAAAACCAT
ACC1_K55	CGTCATGCTGCTGAACTTTTCATC	GGCAAAATCATCTACGAGGACAGTG
ACC1_K55	ACACATGTTATAACCATGATTACATACCTTA	ATTAATTGGTTAAGTCCCTTTAATGGTCTA
ACC1_K55	GTTCTTATGAGTTCATGACAATGATTTGCAT	CCAAAACATGACCAACATGTGCAAATT
ACC1_K55	GCATAATGGGAATGCATCGCATT	GGTTACTACCAAGTTTCCATTTACAGATCTT
ACC1_K55	ACATTATATGGGTACGCATGGATTAAACAC	TGTACAAAACAGGTCGAAACACAA
ACC1_K55	ACACTATGGTATCTTTCAATGCATCAAAGTA	GTTGAAGAGGTTGGTAAATGACCCATATG
ACC1_K55	GTGTTTGCCGTTTGCGTGTA	CTTCATATCACGCTAACTGTACACTCTTTAT
ACC1_K55	TTGGTAGATGATGATGTCCAAATGAGGC	TAACACCAACCGCTTGAGATTACCA
ACC1_K55	CGCTTAAGGTTTGAAAACCAACAAGTT	 CCACTTTTGGTGTGCTAAGTCTCTC
ACC1_K55	CTATAGCATACATATGGACACACACACAC	CAGTGTCAAAACCTTTGGTTCAAAAACGA
ACC1_K55	CACTCCCAAAACACCCGCTAATAA	CCTCGATATGTGGTATTATTGGTATCCCTT
ACC1_K55	CCTCATGCACCACATAACCAGGG	CTCTGGTAGTGCTGCTGGTC
ACC1_K55	CTCGAACCTGCAACCTATCAAAAAA	CATTCAATTACCAGTCATAGTGTATGGTC
ACC1_K55	CTCGGGTCCAGACAGGAAGAAAA	CGTGTGTGACTAATTAGATCCGGATTACC
ACC1_K55	TATCTTGCACCCAAAGGCTCTTTA	CTCAGTAGTACCAACATCAAAAACCTCTC
ACC1_K55	AAGGTGTTTGTGCGTTTGATAGGA	TTATCACGGTCACCCGTATACGTATAG
ACC1_K55	CCTGAGCAAATCGGGTAATATTCTCTA	AGTATCCATGGAGATCGTCACCAAT
ACC1_K55	AAATGTGAATCCACTTAACCCAAAGAGAC	AAACAAACAAAGGAAGATGGGAAGTTGT
ACC1_K55	GCCTACCACCAATCGGGATATCA	CCCTCAACCTAGTTTACAAAAAGATATGA
ACC1_K55	GACCAAACCGATTATCAGATGATTCGG	GTTTTAAAGAACACATGTCACACTTGGTACA
ACC1_K55	ACCATGGTTTGGTTCCAAGGTTC	TGCTTGAGCCCTCTTATGTACATGA
ACC1_K55	GATGCGAACGAGCCACTGG	TTGAGCGACTCGGCCAGAATG
ACC1_K55	GACCGAGTCTGGTTCTTTTCAAGTG	GCAGAGCCAAAATTGAAGGAGATCAG
ACC1_K55	CAGAGACAAAACAACTACTCAGGCA	TCGTGAGGCCTGACACCTGT
ACC1_K55	CTTTGAATTAACAAAAAGAGGGTGTGTACTT	CTTGAGTACGTAAACAAGTAGGCTTGAG
ACC1_K55	AAAAATTTGGAGTATTAGCCATGTCCAAACC	GCAAAATGATATAGCCTGGTTGCATG
ACC1_K55	TGCAACATAGCTCGTCATAAGATCAAGA	TTCCATAATAACCTTGATCCTTTGCCATC

表 A.10 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ACC1_K55	AAAAAGTCATCTAATCAACTACCACCGATG	TAGACAAGTAATTTCAAACGGCCTTCTTC
ACC1_K55	GGCTTTGTTTCATCATCATTCGAAGTTGAT	GCCAGCAATGTCACGCTTTGT
ACC1_K55	CGCGTTCAAGAATTTCCAGAGACTC	ACCTTGTCGCATCATAGTTGCAG
ACC1_K55	GCCACGAGCTCTTCGCAAG	GCCCGTGAGCCTGTTCTTG
ACC1_K55	AGCCATTTTTCGAATGAAGTTGACTTAA	TGTTTTCTCTTTACATGCAGTATAGACGTCA
ACC1_K55	CAACCTTAACCTCGTTACAGTATCCT	CGTGTTTTAAAGTTTGGTTTTTTCGTTTTAC
ACC1_K55	AATTGTACTCCGTAATGTACTTTCTACGTCA	TCATGAGTACGAGAAAACGTTTAACATCTTT
ACC1_K55	TGGCTTGAGTGAATACGTGACATGG	GATTTATCATTACCGCCTACAGAATTGAGAA
ACC1_K55	TTGACAATTGTGCTACATGTTATCTCATCTT	ATGATCTCAGACAACTCTATTAGCAAATTTA
ACC1_K55	CTAGAACACCACCGTCTAGAACACC	TGGTGTAGGACGCTAACACAACG
ACC1_K55	GGTTGGAGTTGCAGAGGGTATTG	TATCCAGGAGTCCAAGAGACTATGAAGT
ACC1_K55	AGAATTAATTGTAGAGGGTGTTCGGCAAT	TGTTTGAACCATATGATCTCATGCCAAC
ACC1_K55	CTCGGTTGAAGGATGAAGGAGAA	TCATTTTTCTGCGCCTATTCTCAGAAC
ACC1_K55	CAATCGGGTGAACCTACGAGATGAG	GCAGCTTGACCGACTCGTC
ACC1_K55	TGGTTCAAACCAAACAGATGTACCTT	GGTGGTTGTGGGCGTTATGTG
ACC1_K55	AAAAAGAATGGCAACCAGAAGTCAAA	GATCCCTCTACCTCCAGTGGATG
ACC1_K55	GCCAACTGAAGTAACTGATTTACCTTT	AAAATGCAAGCGTCGCTGTTT
ACC1_K55	TCTAACTAGTACACTGGTACTACAGAAGTC	GCATGTCTTTTAATTTCATCCCACGTATTAT
ACC1_K55	AAAAATTACAAGTTTGACAGAAGTAAACATGGA	CACTTCTTCAGACTTCTTTTGGCCA
ACC1_K55	CACCTCTCTAAACAAGGAGATTAAGAGGA	GTTGACACAATTATAAATGGCCTTTGAGTCA
ACC1_K55	TTGTGAGCCTATTAGCTTAGCTTATTAGCC	CCCAACATAAGCTCAAAGTTCAAAAGAGT
ACC1_K55	GGTTACCAAATTTAGCCCAACGTTT	GCAGAAAATGAACGCCTGTTGTC
ACC1_K55	GTCTAGCTGCAGCCCTCAC	CGAGGACAAGGATCATTTGCAAAGAG
ACC1_K55	AACCAAGGTGACCATCCACCC	AAAAGTATAAAGTACAGAGAAAGGATTCCGGG
ACC1_K55	TTCTTTTGGCAGGCTTCTTCACTT	CTTGATGCTTCATAGCAGTTCTTCACC
ACC1_K55	AAGCCCAATGTGAATCCGGAC	GGTGCAGTGGTGCAAATACTACTAGA
ACC1_K55	AGGCTGACGGTCAACGATCC	TGTGAATTGTTACATACAACAAAGTGGGAA
ACC1_K55	TGATCCTGGTCTTCTTGTGTGCAC	CCCATCTCTCAACATGTCTGGAC
ACC1_K55	CGAAAATTGTCAGCACATTGTCACTCT	TGTGCGGATAACCGTCTAGTTTTTT
ACC1_K55	GAATGGCACCGTGTTTTTTCATCAT	TCAAGTCAAAACAGCATTTCTCCAATTAACC
ACC1_K55	AGAAATATTTGGCGATCAAGACTGAAGAA	GCGTGCTAAATCGTGTTCTCTTTT
ACC1_K55	TCATATGCTTACCAGTCTTTTCAGGCC	GTTGAGAAAATTAAGACTGCAACATGTAAGTG
ACC1_K55	GGAActCAATGCTTAGCATGATATTCGT	TAGGTTACTGGTAATAAGGAGTCACACAAC
ACC1_K55	TGGGCCTAATAAATAGACATTTGAGTGACA	ACTCTCCTGTCCGAATATGTGCATAG

表 A.10 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ACC1_K55	AACAAACAATAATGCTACCTATTGTTGCC	ACTATCAGTTTTTCACAACTAAGCAAGTGATT
ACC1_K55	AATGTTGAAGTGTGTTCTAGCATTTGTTGT	AAATTAGCATCATCTGCAAACCTTACTTGC
ACC1_K55	AAAGATTTTGGTAATGTTTGACATGATATGCAC	TAACTAAATCCATACGACCAAAGACTGCT
ACC1_K55	AAACGTTCTATCGCTGCTTTTTTCGT	CAGCAGTAAGTGTCCACGTACAA
ACC1_K55	GCTGACCATCATGGAGGCAC	CGAACGATGTCTCGCGGTAG
ACC1_K55	AAAAAGGAAAAAGAAATAAGTGCAAGAGGAT	AAAAACGTAGGTGAGGAGCAGAAG
ACC1_K55	TGTCTTAGATAGTGGGTCAAAGTAAGGAT	CACTGCTTCACGTGCAATCTTCC
ACC1_K55	TGGAACATGTAACCTAATGTAGTGTTCGTT	TTCTTCCCTATATATACGACACAAACATGCA
ACC1_K55	AAAATGCTTTGTTTGGTTTGACAAATGGC	CTAACACTGAACTGAACTTCCTTACTCTTC
ACC1_K55	GCTTGAGAGCCTGGTGTTCAAAT	GTCGCAACTAGCCAACAGTTTGT
ACC1_K55	GCCATATGCCCTGGCTTTGAG	GACTACTAAGTTAGATAGAGAGGTGCTAAC
ACC1_K55	AGTACAATGTGCAACAACTGCCG	GAGATTGAGAGTGTTCGAGCTG
ACC1_K55	AAGCAAATGAATTCGATGGTCAATCATACG	TCAATACTAAGTATTCCTTGCAAGGAGATGC
ACC1_K55	GCTGTTGCTCTTGCTGTTGTTGT	GAGTATGAGAAGAACTAATGGACTCGTATA
ACC1_K55	ACAATCTTTACATGTCCTAAAAACAGTTTGT	TGCTTGTGTGTTTTATGTGTGTTTTGAT
ACC1_K55	CCTGACTGTTGCTGATAGCGAG	CGGTGGCGACCTTGATTCAAG
ACC1_K55	CCCATTCGTAGAAAGTTAGTGCTACG	GGGATACCCTTAGGCTTGTGAG
ACC1_K55	CTGGCTGGTGGCAGATAGAC	CTCAACGTCGCCCTCTTCAC
ACC1_K55	TTTTTAAACTCACCTTCTCACTCTCT	AGATGGTTTTATTTATTCCTATTATCAGGGTCC
ACC1_K55	CATTTTCACACACAGCAAGCAC	GGTCTCTGAAGCAATGATTGCATAATCT
ACC1_K55	AGAAGAGTCAACATCTTCACGTATTATGAGC	GGGTGTCTTCACGTGATATGAATCAA
ACC1_K55	CCTCGCTGACTTCGATTTTCGATG	CTACTACGGCTGGACCAATAGCT
ACC1_K55	GCATGTGACATGGCAGCTTATTC	TATTCCTCCGCTTCATCTCTATCTACGAA
ACC1_K55	TCTACCTATCCTTCCCATTAATCCACA	TTTGTGTTGAGCTTGATGTATGTTTTTGATA
ACC1_K55	AGGACAAGGTTTCGCGAAATATTGTC	GCCGAGTACAACGGATACTGTGG
ACC1_K55	CCTCTTCCTCTTCGCGCAATC	TTGAAACTATTGGCGAGATGAGCAT
ACC1_K55	AATGCTAGTAAGAAACGGGATTCTAAGAAAG	CAGTAGTGTTTGAGCAGCTTGTCT
ACC1_K55	TCGAGTGACATCCGATTTGGTTTG	GGTACACTTCGTGAGGCAATAGATCA
ACC1_K55	GCCAGAGAAAGCTAATGTGTCTATCTT	CTCAAATCAGAGAATTGAACGAAGACATCG
ACC1_K55	GTTGTTGCAACATTTTGTTCATCTCCA	TGAGTAGTCGTGTGTGAGGTCTTAAC
ACC1_K55	GCGGTTGTTGTGATTGGTCATGG	CGTTGACGATTGGCAGATTGTCA
ACC1_K55	CATCACATTGAAGTACAAATTGCCAG	CGGGCACAAAGTGGTGCG
ACC1_K55	ACCATGATACCAGGGATGCTTGT	AATCATCTGATTGTGAGAATGACTCCCC
ACC1_K55	CGTGGGCGAGCACTTGAG	ATCCTGCTCGACGCCCTA

表 A.10 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ACC1_K55	ACATCACACATGAATCATGCTGCTAC	CGGTCAGGTGCATACACGTTAGA
ACC1_K55	CTGTCTTTTGCTTACAGCAGCATA	GACGGTGACAAAGCATTGCAAATAC
ACC1_K55	CCACGCGCTGGTATCGAG	GATACCTTTCAGACCATGGTATCCGT
ACC1_K55	TCGTGACTATCTAGTCAGAACGTCAT	GAGATTCTTCTCGGGACCAGATTGG
ACC1_K55	GAATATGTGGTTTGTAAATGATTGTTGATGATGAG	TTTCCATCTTCACTTGCACTATCTGTC
ACC1_K55	GTGGGTGGTTTTAGTTCGGAAGG	GGTTTTATAATTCAATTGTATTCATGCTGCGTATA
ACC1_K55	GAATTGAGCGGCAATAGGTTTTTGTG	GGATCCCTTCGTTTGCAAACATAGC
ACC1_K55	CATGTGTATCTATATGTTATCCCGATCATTCCT	ACAATATTTATGTTCTTTTGTATTTATCGCAAGTT
ACC1_K55	TGTGAATGATACATAACCCACCAACATA	AAAATATGCGCCACTAGAACTTTCAAGT
ACC1_K55	CTTTCCATTTTCATCTCACACCACCTAA	GTTTGGACTTGTTTGAGGTGTAGGAG
ACC1_K55	GGGTGAGCATTGAGTCAAAACCG	GTGGAACGAGAACTGGAACAGAC
ACC1_K55	GTATACGATAGCGCAAGGTTGGAG	TTGAACTTGACGAGTGCAATTTTCGC
ACC1_K55	AGCGAACATGACTGGCCATAATT	GTAGTTAGTTGTGCGCCATCAGAATG
ACC1_K55	CGAATTGCCAATGCCGACAAC	ACAAGGTGATCAGTGTCAAGAAGGC
ACC1_K55	GTCGGTCAACGAACAGCACAGAA	GAAACCACAAGCACTCAAGCTTTC
ACC1_K55	GGAAAGCACCTTCTGTCCAGATG	TCCGTGCTGGTAAGGGTAAGATG
ACC1_K55	CCATACACTTGAAACAAGCCCAAG	TCATATTCATGAAATGTCTCATGCACGATAT
ACC1_K55	GAAGGAGAAGGGAGAAAAGGTTTTATGTT	ACAAGTATAAGAAGAATTATGGCATTGTGAGATA
ACC1_K55	CATATATGGTACATTCAAACAAACCAGTGGG	AGTTAACCATAGTCAGATATTTGGAGAAAGCA
ACC1_K55	AGCTACTAGCAGGGCTAAATTAAGCT	GCTTTTTAGGATTAGCCTTAAAAATTTGCACT
ACC1_K55	TTCTTTCTCACCATTTGAGATTCGGTT	TGCAAATTTATTTATTTTCTTTTTTGCAAACGTA
ACC1_K55	ACATATATTCATCATCGACGCCATTT	TAGGTCACCAGTGCAGACAGAATAT
ACC1_K55	TAGTACGAGGTTTATTTGCACTTCCATCA	CTATCAACTCAAGAGGTTTGTGTGATGA
ACC1_K55	TCACGTGAGAAGGTGTATCTATACCTCC	CCACCAAGTGCTATGTGTATAGTCTTTATTA
ACC1_K55	GAATCAATTACCCTCGTCCCTCTTT	GTATGTATGAAAAGTGTACGTGTGAATGTGG
ACC1_K55	GGCAACCAATATGAATAAGTGTAGCAAG	GTCACCCATCATAACCCATGGAAAC
ACC1_K55	CAAGCGAGGAGAGATCATTAAGAGCT	CACCATCGTTATGAGTCATTTATTGTGCT
ACC1_K55	TGCTCGAACTTGTATCTAACCCG	CAGCAAGTGTGTGGAAAAAGTCTC
ACC1_K55	GGGCAATGGTGTATATTTAGTCATTTG	ACTAACCGAAAAACATTAGCTTGTGATCTAA
ACC1_K55	CGTGGACCCGCTTCAAATGTT	AGAAGAGAGGCGTCTGTCTAGACG
ACC1_K55	CCCATCACAAAGCCATTTGTCAA	AAGCCGATACTTTCAATGACTTTATTGCT
ACC1_K55	GTTTTCTATAAACTGTACCGAACACGTTA	AACGTTCTAGACCAATTTGCTTGCC
ACC1_K55	GGGCTTAATGGTGTACCTCATCT	AGTCCAAAAGATCTTCTATTTGTCTCTTAGC
ACC1_K55	GGTATCAGTGTGCAACTTAAGGATGTT	AACAAATTAACCTCCAAAACCTAAAAACACATTATA

表 A.10 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ACC1_K55	GAGAGTTTGTGTGTAATATCAGAGACACAA	CCACACCTCTTGCTCTGATACCT
ACC1_K55	AGCGGCTGAAACAACCCATAC	GCTATAGTTCATTCTATACATGCCAAAACAATGA
ACC1_K55	GTCACCAGCTGGAAATTTGGCC	CCTCATCAAATCTATTAGATGGCCCAAATCC
ACC1_K55	CTGGCACCAGCAACAACAACAATGA	CGGGTCTTGATTGTTTCATCATTTGGC
ACC1_K55	TCTGTTCGCCAGATCTTCGATGA	GTGTACCGTGAGCTCATGTAC
ACC1_K55	AGCGAGCGCTTTTGCAACC	GAACAGCCACAAGTCGTGCA
ACC1_K55	ACACAGACCAAACACCTACCCTAT	TGCCTGAACATTTGCTATTGACAAATACA
ACC1_K55	AGCCCCAGGATTGGATAATTCAAGG	TTTCTCTTCGACTCGCTTGTA AAACTC
ACC1_K55	AGCACGTTCCATATCCAGTTCCG	GTTGCTGTTGGACCGATTGGG
ACC1_K55	AGGGATTGCCTAACAGTTTTTCTAGCT	CCGGTGAAGGTAGCATGGATTCT
ACC1_K55	ATCACCAACAGAAGCATCACCAG	TGTTTGCTGGCTTGATTGTTGGG
ACC1_K55	TGTTGTTGTGATACGAGGATTGTGTT	ATTGGCAACACGATCACATAGTGATATA
ACC1_K55	TCAACCATGGTGAGAGGAAGAAAAGA	ATTGCTTTAACCGTGATTCTTTATCCTATT
ACC1_K55	CGCCACCACATCCTTATGGTTAC	CCTCCACTAGGTGGTTGCTTTCC
ACC1_K55	CCCTAAACTAACTACATTCCTTGACCAATGTT	CGCTTATACGCAACTTTTTGGATACAAA
ACC1_K55	GGTCCCAGGCC TTCACATGG	GGGACAAATGAAACATGATAACATAAGTACC
ACC1_K55	AATTTCTTGAGACTGTGATTGGGCTAG	CATGGGTCTCATGATATTGTGCTAGTTTG
ACC1_K55	GGTTGTCGTGGCCACTCAA	CAATCGATGCGGTTTCATCGGC
ACC1_K55	GCACATTGGATTGCACTTGCTT	AAAAATCGCTGATACAAAAACA ACTCCAG
ACC1_K55	GGTACCACGAAAATAGCTAATACGCT	TATGCGCTTTCTTATTGCTCAGGAAT
ACC1_K55	ACAGGCGATCCTAGACGGATC	ATATCGACATGAAGGTGTTTGAATATCTGA
ACC1_K55	TCTCGGAGGAAAATAATACTTAGCTGCTAT	TCCAACCATCGCAGTGGTTAATTATG
ACC1_K55	CAAAGACCGACTTCCCTACATTGTT	ATTCCCAACAACAACAAAATTCCTGAAG
ACC1_K55	AAATGACTGGTTTTTCAGATGCTGATTGG	CTGCTATTTGTTGAGCAGCCTTATTG
ACC1_K55	GGAGCTGTGAAATAAATGCACGA	GAGAAATGGGACATAGTGACAAGAAAGAG
ACC1_K55	ATTCCAGGGCACACTGACCACAA	GCCAAGTCTTTGTGCGTTTCACG
ACC1_K55	TAAGTTGAACGAGCATCTCTTGAC	CTAAGAAGCTTGGAAGCACTATTTTCATGA
ACC1_K55	CGAACCCAGCTCAATTTTCTCACT	GAAACGGTGGAGGTGGATGAATC
ACC1_K55	TTAACCCTGACATTGTATAGCAAGTTCAATG	GGTTGAGAAGGTAAAACTTAAATGTCATCCA
ACC1_K55	TACAAACATGAAAATGTTGTCTCTTTATTGGGG	CGATGCAGTACTCTTTGTTGGGT
ACC1_K55	CTCGTTCTCGATGAGGCTGATAA	GGTTATGAATCTTGAAATAGGCAAACGTC
ACC1_K55	ACAAAATCAAAC TTTAACATCGAAGCCTAAAC	GTACGTATGTGCAACCTAGGCATC
ACC1_K55	AGCTTGATGGATTGTGTGTATGGTT	AGAAGAAAGAGCAA ACTACACACTGAAAAG
ACC1_K55	TGAGCTTGCTCTAATTGCACAA	GCAAGACGACTTGGACTCCATTCA

表 A.10 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ACC1_K55	GACGAGGATGCAATTGAGAAAGCA	TCTGATGATGATGGTCTTGATGATTGGT
ACC1_K55	TGTCTCGTGTCTGTGTTTACATTCTGT	AACCACACATGTTTTCAAACAGGTTTAAT
ACC1_K55	GTGGAAGAGGTGGACACACAC	TGGACCCTGGAATCCACAACC
ACC1_K55	GACTGTTGCGCGTGTTCAA	AGACAATCATGAACGAGTGCATGAAG
ACC1_K55	AGCGACGCCCTTCTCTCC	GAAAAACAGTCATGTCCTGTGCGG
ACC1_K55	TTGTAGATCAACTTTGGTGCATACGAA	GGCCGTTTTTGAGTAATAACATTGAGATAACA
ACC1_K55	CAGTTGCCATCGCCTTGCC	GGTGGAATATTTGGTGCAATCTTAGCT
ACC1_K55	GAATGAAAAAGCCCTAATTCAATTGACCTA	CCCAACAACTTTTCCCGGTTTTTTT
ACC1_K55	CCGTTTGATTGAGCGGACAAATT	GTCTTGTTTCGGTGGCACAATTAA
ACC1_K55	ACCAAAGCACAAGCATCAAATACCA	TGACCACCAAACGTTAGACTTGATGT
ACC1_K55	ATCAAAAGCTTAACCTACTAGCTTCTAAGAA	AACTTGTTTACCTGTCTACCATTTATCTCC
ACC1_K55	GGCTGGTCCATACAGTACATCA	CCCAACTTACCTTTGTTCGTGGAC
ACC1_K55	GGCTGCAAGTTGTTTACGCT	CATCTGGGTCAGCCAGCAG
ACC1_K55	AAAGTTGGGAATTGAATGCTCGAAATCG	CAAGTTAAAGTGATGACAACATTAATGTATTGAA
ACC1_K55	CATTTGAGTACCCTCTTTTGACACCAA	GAGAGTCCATGGTCAGCATGTTAG
ACC1_K55	AGTTTTGTAAACAGGTGAACTTGGAGAA	TCATAACCTTCACAGGTGTGAATCCT
ACC1_K55	GGAGTTACACTTGTAATGGCATTGTTG	AAAGACTATACACCAAACAATAGTCTAAATGTTA
ACC1_K55	CACATTCGTGTGGTTGGGATTTACT	CTAAGGCGATTTAGAGTGGAGTGTAAC
ACC1_K55	CACACTTTCAACATGTCAAAAACACTTGT	CATCAACTGTACATTTGTAAAACGGCATG
ACC1_K55	GTGAAAGTTATGTGTGTCAATTGTTAGTGTGT	GGTCTTTTGACCTTTTACCCAAAAACATGT
ACC1_K55	TGGGATTGTGTCTTATTGTTGTTTTTGGG	TAACCAACCATAACTAATCAACGTGACAAAG
ACC1_K55	GGGAAAAATCTAAATGGGTTTTTCAAGGTT	GAATACAACACCAAGGATCATAACAATGACC
ACC1_K55	GAGTGTGTTAAAGATCCGAACCTTCCTG	CAACCCGCTTTAAACACCGAATTTTC
ACC1_K55	TGATTTCTCGCATGTGGTAAAGTGTT	ACGTGTGTACCAAATTCATCTTCAAATGC
ACC1_K55	ACGCAAGCCGCTGTACTTA	CTTCAAGCAGGCGCTCAAA
ACC1_K55	AGGGCCAACTTCGAAGCTAAAAT	CTCATTTTCTAGCTTCTTGGTAGATTTTGGT
ACC1_K55	AGCAGTCGCCACTCGTCG	CTGCTGCTGGCTGTTGTTGT
ACC1_K55	ACGCTGCATGTGGTTGATGATAG	AGAAAAGTAGACCCGTTGACTCATAAC
ACC1_K55	AGGAAAAGGACGTGCCTTCTACT	CCAAATAACGCATGGCTAATCCTGC
ACC1_K55	AAACCCTAATCACCTCCCATCTCTG	GTAAAAGGGTACGGTCTGATGTAGGT
ACC1_K55	GGAAACTTGATGTTATGTGTGTGAACAA	GATTCTATTGGTTCCCTCATGACAAAAGGC
ACC1_K55	GAATATCTAGGCATGGTCCGTTCAA	TGACTTCTCCTGTTAATAGAGTGAGTGAA
ACC1_K55	CCTACACGTCCGCGTAACTAACT	TAGAGGAATATTGAGGATGTGGTTAAATGCA
ACC1_K55	CTCCTGTACAACCAGAACGTCTC	AAACGATAAAGGAACGACAGTGAGATTT

表 A.10 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ACC1_K55	GATTGCTCGAATGCATGACCCTATAT	CCCAAGAAAACACAATCATGTTGTGTT
ACC1_K55	GCATAGGCCATGGCCAGC	CTGACCGCCAAGAGTGCAC TG
ACC1_K55	TGGGTACCTCATTTATTTTCATGGGTAAAATTT	CAATGGGTGGTCTAGTCTTTGTATGTA
ACC1_K55	CATGGCCTCTAAAACATGAACATATGAAGG	GGACTAATACTCGTATCAAGTTCATTAGCTA
ACC1_K55	TTCAGACAGTTTGGACCTATACTACCAT	GGGTAACCTAAACAGGGAAAATCTCACC
ACC1_K55	TGCATAATGTTGGGCTGGTACAT	TTTTTATGCCTAGCTTGCTACCAATTATTTA
ACC1_K55	TCGAAATGCATTTGAAAAACCCTTTTCTT	ACCTTTTCCATACCAACATACATATTCAGGT
ACC1_K55	GTTGGCTTTTACTTAACATTAATTGGGCAT	CTCTCGATAAAGGTCAAACAAAAGCAA
ACC1_K55	CTCTTCGAATCCAATTCATAGTCGTCTC	GCTAGGAAAAAGATCAAGACAGCATATGTTT
ACC1_K55	GACAAATGGCATCATCTTGGGCC	ACTTCACTAACAGAAAAACACAACCTCAATAC
ACC1_K55	CCGAAACACAAGCAAACTCCAATAA	GGCTACATCTATATATGCATACGACATGAAT
ACC1_K55	GGAGTTACTGGTTTGTGTTGGAATTTGAT	AGTATTCATACGTAGTGAAGTAGATGAGCTG
ACC1_K55	TCGTTTCATTGCAAGTGCAATGTT	GATCAAAGCTCAACCTCCACTGTC
ACC1_K55	CCAGGTTTAATGGAGAATGCTGACAA	GGAATGGTGAAATGGTGAAATGTGTAACA
ACC1_K55	AGTACAATGCAACACAAATAATTACTAGTCTTAG	GGGTTTTCGAATCAAGAAGGACCTGG
ACC1_K55	CATGTTTTTTCATGAGGTGTTGTATTGT	CAACGGGTCCCACATACATTGTG
ACC1_K55	AGTCAATGAACCTCCCTGACTCAA	TATCAACATACCAGCTCACAGAGTATACTC
ACC1_K55	CGCCCAAAGAATATCCGATGAATCT	GTCAGAAAGTGCAGTCGGAGATTG
ACC1_K55	GCCACACGTGTGACGCTAT	TACACGGGTGCCCTAGAGTAGT
ACC1_K55	CAGGTGAATCTCATTTGATAGCGACAA	CTGAACCTGATCAGCTTGTCCAG
ACC1_K55	GCTTTCGGGTTTCAGATTAAATTCTACGT	CAAGGACTTGGACTGCAATTCTCT
ACC1_K55	ATGAAGTGTGTGAATATTCGGGCATAG	GCATCATGAATGCGATGCACTTCA
ACC1_K55	CTTTCCATCTTACTTAGGATTGTGCATTCT	AGGATGATACTTGTGTTTCATGACATGGT
ACC1_K55	CAGAGACCCAGACCAGGATGAATAT	GCTGTTCAATTTAGAAAACATGCAGCTG
ACC1_K55	CTCCATGGACCTTGATGTGCTAC	AGCGTTGTTTCACTTGGGTACATATC
ACC1_K55	AGCACGTGACTGCTGATGTTTAT	AATCCATCACCAACAACCCATATGATTAG
ACC1_K55	ACCATAGGCGTACCATAGTTTTATTTCCA	CTGACCCGAAACATCTGTGGTC
ACC1_K55	AGACTTTGAAGTTTGAAGTAGTCGTTTAC	TTTCATCCATGGCTCGTTACGAAG
ACC1_K55	TCTATTGATATGGCTAGCCCTTCCATC	AACAGGCACACATTGTTGATTACTGC
ACC1_K55	CACAATCCGGATCATATAATGTATCTGGATGA	GTTGATGACGAAGAATTTCGAATTGGGC
ACC1_K55	CATCGATCCACGTTTCATCAAAACGC	TGAGAGAGACCCATACCATGATGAGC
ACC1_K55	ACTGGTTGCCGTAATTGGGATTG	CCATTTCGCACACATTTCGCTCTAA
ACC1_K55	CCCTTCCACTCTGTTACCATTGAC	GGCCATGGCTTCTAGGTTCTTTAATTG
ACC1_K55	CAAGACACTTGAGTGTTTTGACTAGCT	GGACTAGAGATCGCTAGAAGGCTATTG

表 A.10 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ACC1_K55	TTTCTTGGGTATAAAGGTTATTGGTACTTTTGAT	TGTAATGTTTTCTACAAGAGGATCATCAACAA
ACC1_K55	AGTTTAGGGTTCAAAGTGTAATTATGACCAA	GGAATAAAGGGCATAATCGACTTGTGATATC
ACC1_K55	TCTCATGGAACAAAGATTTACTACTCCAAC	GCTGCTTAACTGAGTTCTTGTCTTGC
ACC1_K55	TCCAAGTCGATCATCTCGCTAT	CTGAAGGCGAATGTTGCTAAGTTTG
ACC1_K55	TCGCTAATCGAGCTGCTATTCTGG	ATGCGAGAGAGCCGACTGAGACA
ACC1_K55	AGTAGTGTGTTTATATAGTCCAAATGTGCAC	CTAACAATTACCGTATACTCTTTCCCGTTT
ACC1_K55	TGCACCGGTGTCAATAATCCAAC	GGAAGAGCTCTAACAGCAAAGGTAA



A.11 番茄 MNP 标记引物

番茄 MNP 标记引物见表 A.11。

表 A.11 番茄 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch00	GCGAATTCTAGACCAAGTGTGGAA	ACCATTTCATCGATCTACGATTCACAGG
ch00	AATGTAGTAGACATGACTTGCCAAAG	TAGACATCCTTTTGACAGTGATTTTCTTCAA
ch00	TGAAATGATCTTAGGCAACTATGTGACATTA	TTTTGAAACATTCACATGTTTTTCACTCATT
ch00	TAAGAATGCCTAGGTGGAACCTACTAGA	CTCATTTGCGGTGGCTAGATCTAC
ch00	CTTTTCTGATGTCCTCTTATAAGCACCTT	CCTTAGTAATCCATGCAGAAAAATTCGCA
ch00	GCCTACTTGACCACCTCTTCAT	AGCGAGAATTTGGTGAACAATGTGG
ch00	AGAAAAAGTCACCGCTTGCATAA	CCCTATCCGGATGCAGAATCTGA
ch00	ATAAATGGAGATTAATGGCGATCCAGAAAA	CTTTCTGCGTGCAAGTGGAATG
ch00	CCAACACATGAAAAAGCAGAATACACAA	GCACATTCGTCGACACTTTCAAAAC
ch00	CAAAACAAACATTTGCCGAACCTTAC	TTGGAAAGAGGATACTTCAAGGTCAATTA
ch00	AGCACCATCTAAGCAGCGAAATT	TAGTCGAGCTATCTGGTGCCTATC
ch00	GTTGATTGGGTTTGGACTTAATAGCCT	GAATTTAAGTTAACAGGGATGACGGTTTAGA
ch00	GGAAAGATCAAACATGTGCTTTCTTACTC	TGACTGATATGTGCATAAAGTGTGTGCAT
ch00	GTGTTGCTTTTGAGCCTCAACAT	CCACCTTAGGATCCCATCTGAAAAAA
ch00	AGAGTAATTGGAACAGGGTACATGTCTATAA	GCCATATAGTTTGGGTATAAATAGGCCGG
ch01	AGGGATAAAAGTATTGCTATCCAACAAAAGG	CCTTCTCGGTAGGTCAGTCTCAAAA
ch01	ATACATGCTTCACTAACATCGCCTTA	AAAAAGGGCAACAAAATAAACCATCAGAG
ch01	GTAAACCGGAAAAGTTGATGAGAACATGAAA	GTCACCACAGATGCCAGTATTAGT
ch01	CAATTTCGACATGGTACCAGAGGAAG	TCAAATGTTGCTTGAAC TAGGAGTAGACT
ch01	ATTGATAATACCTACCAATAAAAGGCATGTC	AAATTACCAAATCCATATGGTGGAGATTGAG

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch01	AGGTAAGGTTATCGAAAACATTGCTTTATTG	CATTCAATCCTGAGAGATGGCTTAAAGAT
ch01	TTTCTCTTTTCATAGCCACTTTCAACTCAT	TAGAAAGAGTCCGACCAAATGAAATGAATTT
ch01	GAGTGAAATTCAGCCCGTATTCTTGG	GATGAGGTTAAGAAATTTGTTGGAGTGATGC
ch01	CCCGAAAACATGATGGAGGAAAA	TCTTTTCCATTTGTAAGATTCTTCCTTTACCTG
ch01	ATCCAACATAAGTCATATTCATCATGGTGTT	GTTGTTAGACACCTCTCGCTCAATTG
ch01	CCCATCGGAAGAAAGACCACTTTTC	AGAGAGGGATACAGAAAAGCTTTTGGA
ch01	AGACTTAACCTCTGAAATGACTATGAGGC	GCCTTGCTCCTGTTACTATTCCACT
ch01	GAATGAGAGTCAAATAAGGCAACATGTGC	GTAGATTCTCATTAGTAGGCAACTTACTCCT
ch01	CATTTGGCCTATTTGGGTCTTGAAGC	GATGGCTTGGTAAAAGCTAACAAGAAAAAA
ch01	ACTCCTTCTATAGTTGCTGACTCTTGAA	TAGTAGTTTAATCACTTTTGAGTTTGGCAT
ch01	CAATTTAAAAATAAAGGCAACGGACATACCTT	GAATGCTACAGACTCAAGCCTAGATGC
ch01	AATGTTACACTCACATTACATTGATG	AACATCAACATTAACGTTAACGTC AACATAA
ch01	TCAGGTACACGAATTTAATCGATGAACCA	AATGATAGGCCGTCGGTCAATAGA
ch01	CCCATGTGGTGGATATTATTATACATTGGAA	TTTTTGCTCTAAACACACAGTAAGGTTTATC
ch01	AACTTTTCTTGGGTCAAATCTTATCTCTCAA	GAATCGAATTTGGGTGAGAATAACACGT
ch01	AATACACGTATCATTACGACTTTCATCGTT	CATAGATGCCAGAATTGTCCAACCTACAC
ch01	TGGTTTAGAACTATTTTGAAAAAGACCCAA	CATTCTGTACGAGTTGTAGATGGGTC
ch01	AGGTGAATAGAATATCGTGAACCTATGGACTT	CTTGGGCATTGTTGTTTCATATTGATGATTAA
ch01	AAAGTGCCACTGTATTTAGAGCCAAC	TATGAAACTCTCAGTGGGCTTTTGACT
ch01	GAGATGAACGTCTGTTATCACCCAT	AATGGCTTATTTGGAACCAAATTTCTTCAAT
ch01	GATGTTTCATCAACAGGGTACTCACTT	CTAGCAGGTTCCCTCAATCAATCTACCA
ch01	GAAATCAAACTCCAGATTGAGTTTGAAGAA	AGTATACTGATGCCTGATGGTTGTGA
ch01	CCTTTTGTTGTCTATCTTATCCTCATCTTGTT	TGAAACTCTTTTGTTACAAAAGGAAGGTAGAAA
ch01	GGATGAACCCCTCAAATTCATTGGGT	AAACTCATCCACCTCCATTTCCATTT
ch01	TAGGAATGACGAAATAGTGTGTTGATTGTT	TACGAACGATGGATGTGTAGAACGG
ch01	TGTACTCTAATTAGTCCCTTGGGCTTA	CACCACGTACCCCTTTTCCCTCC
ch01	GGGTAGAAATTCAGATGCAGCATTATGA	CTTTGGGTGGCATAGAATGGGATAAT
ch01	TCTTGTGAGGAAACCAAGTTTTATTACTTT	GTCCAAACAGCAGACAAGATTGGG
ch01	CCACCGATAATGGTAATTTCCCTGGTA	CCAAACGAAATAACAAAAGAAATCATGCAAG
ch01	ATCTTCATGTTTGTCTATCTATGAAGCCTC	GGTTTAGAATTTCCCTTACAGGTTCAATCAT
ch01	GCATATCTGAAATGAATGTGATTTTCGCAT	TGTAGCTTCTAATGTGTTTGGTTTGAGTAGT
ch01	CCTCTGCCCTCAACAAGAAGAGA	GGGCACAGGAATGGCATCATAGT
ch01	GCTAGTTTCAAAAATTCATGGATGTTGGTG	ACACATCAACAATTTTGGGTCACAATC
ch01	GTCCTTCTTCTTCCCTTTTGGCAC	GCAATTTCTTTCTCTAGCTCCGACAATAGT

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch01	TCGAAGGAGAACTAAGACTACATGGTC	ATAAAATCTTGGCGAATGCACAACAAC
ch01	TGGTGGACTACAACATATGATGATTGGA	TCTTCAAGGTCTAACGAGTCCAAGAG
ch01	CCGACACCTAGACAGTTCGTAAAG	TCACACTTCGTTTAGTGGATCATGATGA
ch01	GTTCAAAAAGAAGACAATACATATATCCACCAT	GCTCTTTGCAGTTGTAAACCTTGTGA
ch01	AAAACATCAGTTGTTTATGCACCATTGAG	GGTTTTGTACTTTGAAGATCCTGATTGTTT
ch01	ACCACGAAGAACATATCCTTCAAGATATT	TGCCTCGTGGATCTAAGCCTATAGG
ch01	CGTGACCTACACGAGGTCTACAA	CATCGTGAGATGAGGTGCGTAAAT
ch01	ACGACAAAAGATTCAACAAAAATCGACAC	GAATTAATACATGCATGATTGCTTGGGATC
ch01	TCCCGATCACCTTCTCTTAAATCTTCATAG	GGGAGATTTAAGATGTTATTTGTAGGATGCG
ch01	TGAACTTCTTCATATATGGGATCACATTGGG	TCCACAATAGATAAGCTACACATGCTTTA
ch01	GTAAATGCTAAGTTGGAGATGTGGAGAC	CTTCTTATTACACAAGAACTAGGAGGCAAG
ch01	GAGTTTGGGTGTTGGGTCTTGAT	CCAATCTCGACACCCAAATTAGGACC
ch01	AGTAGCAAAACAGAAGCTCAACTCTT	GCTTCGTCCTCAAACGTAAACCC
ch01	CGATACTCAACAGTATTGAAGGCATATGTT	GACATTAGCATCTGATGGAGTTGCTG
ch01	AGATATAACACTACGCGCATGCTTC	GAGGTTGCCAATAATCGGCTAATTC
ch01	CCTCATTTTTGAATTGCACTCAGCTAG	AGTTTGGACAGTTCTGAGATATTATGTGTCA
ch01	TCCCTCAAAGGTGAATGCATGAGT	CATAAAATAGATGCCAAGCTGCAAGTC
ch01	GGAAATATTTCCCAAGGATTTTCTGGGAT	GGTCAATTCTTTACAAGATTGGCTTAAAGTC
ch01	GGAAGATTGAAAGGAGTTCTTACCTT	CATGCATGCACGTGCATAAAGAG
ch01	ATAAGCATTTGTCTCAAGAAGTCGGTAAA	ATCGCCACCAGCCAAGAATAGCA
ch01	AAGTCAAATACTATCACTTTTCATAGCCGTTT	GGTGCAGAAATAACGAAGTGTAGTAGGT
ch01	AAACTGGCCTTGAGCTTAACGAG	TTCCGTTTCTTAGTACCACAACTAGAAAGG
ch01	CCCATCAAGCAAATGCTTCTGAA	TTGTCTTGGATCTCTTCATTCTACGTTTTT
ch01	TCACCAGCTTAATCTCAAAAGAACACAT	TGCTATTAGTTGACCATGGGAATGACC
ch01	GGCCGAAATATTCATGACATCAGAGT	TGTGTGGCCTAGACCTACTTGTT
ch02	AAAACTAAAAACTGGCATGACAAACACAT	CACTATGCATTCAAAGTGATCTCTTCAACC
ch02	GCTCTGATTTGTTCAGGATGGCATA	GATGTCTGATGTCGTTGAGAGCAT
ch02	AAAAAGGGTCAATACTAAAGGAAAAAGGCA	ACTCGACTATCAGCCAAGGTAACCTT
ch02	TCGTAGGTCAGTCCTGAGATGTCT	GAGAGAATTTGGGTTCTTTGAAGAATGAGT
ch02	TCGATTGATCTCCCGTCTTGAG	CATCTTCACCGTGTCAACAACAATTC
ch02	GCAACATCGGTTGTGTCTTACAC	CCTAGACGATGATGCATGCAGTTG
ch02	ATTTTAGGTTTCAGACATCAATACCAGCTA	GGGAATTTGACTAGGCTCGACAATTC
ch02	AGAATGTCCTGTTTGTTCGAATCTCTCT	TGTAGATTGTCAGTATCAGACATACAAGGAT
ch02	CGATCCTAACAATTTGTTGGGTTATATAGTGAT	AGATGGATCTCTCAAAATGTCAATTGACAATAGA

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch02	TTCAAACCTGAAAGCCTCTATAAGCAT	AGTGTCTCTAATGTTGTATGGTTGAATTTA
ch02	GGATGAATTCTCAGACCTAACTAAAGGATC	CCTTGATAATAGAGCCTCTTGTCGTTGC
ch02	TCTAGCATGCTCGACAAGTCAACT	CCCTCTGGTTAATCATATGATGATATCAGGA
ch02	TAGTGATCCATAATAGGGCTTTCAATACCTC	GTCAGCAGCCTCTAAAGTGGAAAG
ch02	CATTTCATTAAGTTGTGGTAAGTATCCAGGTC	GTTAAGGATGTATGTGGATTATAGGGCATTG
ch02	CGCTTAGGAAGTTGCACCTCAAG	AGGTATGATACCTTGAAGAAGTTACCCAG
ch02	GGATCCCAAGACATAGATGACCACTT	CCCATCCTTGTAGGGCATTGATT
ch02	ATTGTGTTTACTTGTAGATGCAAATGGAAGT	CTTTCTGTTTTCTGCGAACTTCTTCG
ch02	CCCAAAATGGCAAAAGTCCCTATCA	AATGCTCTACTACATTTGTGGTGAGATACT
ch02	AAGTATCATATGTCTCGTATCGAAGACTTAT	GTTGTCCGTGCTCTTCCTTTTAGTAC
ch02	ACATTTTCGAGAACAAAATTTGTTGTAGGAGC	GCAAAGCTTTAACAGACCCAATATTATGCA
ch02	GTTTAGATAAGATCAGTCTGTCTGGTGT	CTACCATCGATAGATAGAGTAGAACGACAAA
ch02	TTTGTGCTATATAAGGTCCTAAAGAGGATAGTA	TTGCTTTTACAATTTTCCTTTTTCATGAAAATGA
ch02	GATCTTATGGGAGCGTGCTGTAA	ACGATGACACAAAAGGTTCCATTTTGT
ch02	CATGTAGGAGTGTCTCCCTGGATAT	GACTTCTGCAGGAAGGAGCTTTAATTAG
ch02	GCCCATCACCAACATAAACTTACAG	GATCAGAAAGCAGTTATCTTGCCAACA
ch02	GAAATCCTTGATGCTATGTATCCACCTC	TTTATTTCAATGGTTGATGGACTTCGAAACT
ch02	CATCAACATCCATCCCATCATATCACTA	GTTGCAGCCTTTTCTCATGATAGAAAGT
ch02	AATTCGATAAGGGATTAACCTGTACCCTG	CTCACCTCCACAACCTTCCTCAAAAG
ch02	AGACTAAAGAGAAACAAAAGAGCTTTCTCAA	ATCCACGGAAAAGAATGACAGCAG
ch02	ATTTGAGAGTTCAGAGCTCTAAAAGATAGCT	AGATGGCCAAATAATGAGTTGGAATATGTG
ch02	CACACTTCCACTTAGTAACAAGAAATGCA	AGCCCTTATCCAGTTCAATGCTGC
ch02	TTAACCATAACAATCATCATCACCTGTTG	TGGATGATGACGATGATGAGGTTGA
ch02	TTCAAACCCGTCTTCGACATCATC	AGTGTTGTAACCGTATCTCTAGTCTTAAATC
ch02	ACCTTCGGCTCAGATAGTAAACCTA	CCCAAGGCTGACAAATGGTTATCTG
ch02	AGTTTAAACGTTCTTGCTTATCACGGTT	ACTAAGGAATTTATAAATCCAGCCTGCATTA
ch02	CCAGGAGCAGGAAGACTCTGAAC	CCTTGCAAACATCTTAGGTAGTGTAACACACA
ch02	CGCGCAGGTTCTTCATTACTGTA	AGGATGCAGTTGGGTAAATCAGATGG
ch02	TTTTGAATCCGTTATCGTGTACTCCAT	TAGGCGAAACACCAATATTCCAAAAAGT
ch02	AAAAACAATATGAAGCGTTGTAAACTTCGAT	CACAAGGTGTCTCCTCAACATG
ch02	GAGAGAGATGTTTTCGTGGTGTCTT	AATACTCGTCTCAAATAGTTTGATCATGCC
ch02	ACTGATACTCCTCAAAGGAGTAGAAAAGTA	CTGCTGCCTCTTTCTCTACTACTCC
ch02	TGCATTGTGTTAGGCAACCATTGT	CAAAATTGCTCAGTTTTGGTTGAGTAGTAC
ch02	CACTCTCACAAGCCCTAGTGTTG	CACAAGCCTAGACTTCATGAAACTGAG

表 A.11 (续)

染色体	正向引物(从 5'端 到 3'端)	反向引物(从 5'端 到 3'端)
ch02	GTTTAATTTTCATCTGCTCTGCCAACTG	AAAAAGTACGGTCAAAGGGAAATGAGG
ch02	AAAAACATACAAATAAATGGATAAACCCGAAA	ACTCCTGTGTTAATGGGCCTTAAATATGT
ch02	AACACACTTCAATCAATCCACTCTTCTA	GTTTGCATATTACACTTTTGGCGAATATTAC
ch02	TGTTACCTATGAACGTCTTGTACAACAAG	CCAGTGGGAATCCAAATGAGAAATTTATGAA
ch03	GTTTGCCAATATTGAGCAAGTCTTGAG	TGACTCATATGATCATCCTTTGTGATTTGTT
ch03	TGACGTGAATCCTGTAGAAATAATGAGCA	CTTCTTATTTGTTAGAAGGTACGAGTAGCAA
ch03	AGCAATAGCAACCAAACATATCAAAAACAAA	ATGACGCCAACCCAGTTGAAGGAGTG
ch03	GCACCTGGGAGTTCTTATGCACT	CTTGACGATAACCAAACAAAAGATCGAAGA
ch03	GCTGACGGTTCTAGGCTTTAGAG	CCCGAATATTCAATCTTTCAGGAAGTGATAT
ch03	TGAGCCCAACAAAGCCCAAAATATAA	TTGGATTGGGTTGTTGGGATATTTCTA
ch03	GACCATGCGGATCCTTCTACATA	GTTGTGCGATGTCAGAAATTTAAGTGATG
ch03	TAATAATGTTGCTGAACCGTAGGCATAAT	GTCCGGTTCACCCATATCAGACA
ch03	AAAAACAACGTGCAACTGCACTCTG	TCAAGATGTCTAGCTAAGCTATGCTCTT
ch03	TCAATGGTGATTTTGCCGTTGGA	GATCATTTATATCTCTCCTATCTTTGATGAACAG
ch03	TGTTGCAGATTTGGGAGCTTGAG	ACTTAGAGGTGCGTAAGGATGAATGC
ch03	CAAGGGTCTTAAGAAGGACCCAAG	TTTCTAGTTTGAGTCTTGTGAATTTTGGGG
ch03	GTTCTAGCTCCTCCCACTCATTTTTT	CAAATGCCTTGATGAATTTGAGTTGCG
ch03	ATGCTGGTGTGATGTGTTAGGAGT	GCCAGATTATCATCACCTTCAATTAGAGAAG
ch03	TTGGTATTGTTGTTTCCATAAATTTGTGGTG	CACAAGAAATTCACAAGCATTACGATCAAA
ch03	CCGTCCATTTTCGCTTGGAATTCC	TGGAATCGAGAAGAAAGGATAATGGTAATGA
ch03	TTGCATTCACTATAATAATTTAGAATTGGAGGTA	ATCATTTATCACTCGTGATTTTATCAATCAACT
ch03	CGACTCCCATATATGGTCTTACAACATTG	GTCTCTACATCGCTGAAGTAACACAT
ch03	GATCTTTCTGAAGTGAACAGAAGGCTAT	AGACATGATGTGTAGAGTTATGGCAAATAAC
ch03	GTGATTGGGAAAGAAACCCATTTGATTC	GGACCTGGTAGCTCTGGTGTATA
ch03	GCCATCATGTTTTCTAATTACAAGATCGGAG	GGCTTAGATAGAGCAAGACAACGTT
ch03	AGGTAATTAACCTACTAAGGACCTTTCCTAA	TCCACGAACCCATTTTGATAAACCATC
ch03	GGTCGTTACAGTGAAACTGTTGTTTT	TTGAATGTAATTGTTGAGGTCGAGGAAA
ch03	CACATCCTTTTTATCATCTTGAGGCAAT	GAAAAGGAGGACCTTAATGTAGAATCAAGTT
ch03	AACTTGTTCCTTCCTCGTTTCGATTA	TGAGGATCAATGTTTTCAAGGGTGATA
ch03	TTAGCACTTCCTAATGTCCACTTGTTTA	CATTGCACTAGTAGGCTAAAAAGGGTG
ch03	ATTTTTTCAGCCTATTTCTAGGACCTATAACTACA	CAAATTATGCTACTTAAGATTCCTTTGAGACCC
ch03	GTTGCATAGTACGAAAACCTTTGTGA	GTACCCTATCTTACGTGTTGGCATTT
ch03	CGCGACATGAATCCCAGTCTAAT	TGAGGTCATTAAATAGAGGAATGTAAGGGAT
ch03	TTCAATAGGATGCCAGACGTGTTT	GGCGGAGGGATTCTGAAGAAGG

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch03	TTAAGTTAGTTGGACATAACTTGATACCTAAAAA	ACGGGACGTGTGTTGATCATGG
ch03	TCATACACTTCCGTCGTCTTTATCAGA	CAGTTTCACACAACATTGACTAACAGTG
ch03	AGGGTGGAAAGAGAAGGTCTGAA	GGTCCAAAGAACATAGAGGATTCATTCTAGT
ch03	GATGGTCTATGCTGGTCAACCAATTG	TCCCTAGGGAGAGATCATGTTACACC
ch03	AATCTTCGCAAGAGCGATGGTAA	GATTCGGTGACATACTGGTTTGTATAGTTT
ch03	TCAAACCACGATACCCTCCACTAC	ATTTAGGTTACCTTGACAAAAGTAAGTGTA
ch03	ATCACGAGGAGGCTGAGAGAGAC	CCCTTGATTTGGATCCCTCTTCTTGA
ch03	TCTATGACATCCTTCCCACTGAATGTTAG	GTATATTCACCTCTTAGAATTTGGTGACCAA
ch03	TTTTTATTGCCACTCGATTACATTATCAG	TAAAATGTGATGGTAGAGGTGATTGATAGCA
ch03	TGTCAATATTTGTTTTCTTTGTCGATTTCAACTT	AATTACATTACAATGTAGCAAGTAAACAAATCAC
ch03	GTTGGATGATCGCCATATTGAATATGATGT	CTATTCAACCACGGGTGTATAGTGAATAGT
ch03	TGTCTTTTGCATTTACAGCATGTGAAAG	ATTCCTGAGCAAATAGTTTCCTGGTATTTT
ch03	AGTGGGCATATGGTCATACAACCA	GTTGAGACCGACTTCATTATTTGTTGGG
ch03	ACTGAAACCAAATCGGACCAGAAC	CTATGCAATCGACACGGGATGTAC
ch03	CTAAACCCGTTATTCACTTTGCTTACCC	TCTTATCGAAGGACTGTTCAATTCCTTCC
ch03	TGAGAACCCTTCACATTTGCTTCCC	TGCTTGCAGCATATTGAAGTTAACAGG
ch03	CGGACCAAAATGTAACAAAGCGAC	AGGGAATCAACTGTCACAACTGTCC
ch03	GCCCTTCACAAGTCTATGAGAGGAA	GCTCTATAGACAGCAATAGACTTCGGAG
ch03	CCCTTTTAAGTATTGAATTGACCCGATCAA	CTCCTCAGATCATTAACCAACAGGAATCA
ch03	GCCCGACTTCTTGTTCTTAAAAACGC	TTTCGAGTTGGGATAAAATTTTTGCAAGTA
ch03	CTGGATCAGCTTGGCTATCAACAA	GCTCCCACTTGATGTTTTGCAAATGA
ch03	GAGTATCACCATTAAATGAAGTAGTAAGGCTT	CGACAGTTCAATCGCACAAACATAGT
ch04	TCAACTACTCACTCCGACCACTTC	AGTTTTGAGACGGCCAGCTATTTTC
ch04	AATTTGGGCCCTTGTTAGGAAATTTTCGA	TAACCTTTCCTTAGACTAATCATCGCCAAACC
ch04	TTGCTAATACTGCTGATACTAAGGGAGAA	CGAGAGGTTGGTGATGGTAGGTT
ch04	TCTCCGAGAGACAGTTGAACTAACTA	AATGCAACTTGTCAAATATATGATCGTAGTATT
ch04	CGATGAAAACGAAAGACAAAGCCAA	CTATGGCATGCTTTTCACCTTCAATG
ch04	ATTCAAGCTAAATCCTGAATTCACCTATGTA	GCTCTGTGTAAAACATGCTAATTTTTGCAAT
ch04	TATTAGGAAGCGCTATTGCAAATACTGATG	AAGCACAAATGAAACCATATCATCTACAACCT
ch04	AATTTGATTTTATACAGACACAAAGTTTAGCTGA	TGCTATAGCAAGTCTGATTGGGAACA
ch04	ACAATTGGGAGCAACATTTTGATAGACTG	TCAGGACATGGCTTCTGTCTCTT
ch04	TGGTTAGTGATTTTGGCCTTCACTT	TGCTTACAAGTTAGAATTACCAAAGGCTA
ch04	TGATCTGATATCACCTAAACACATGGTAATGA	CCAAAGCAATGCAATATTGCATGCTATATAC
ch04	GTTATCTTTTGTAAAGACATAGGTTTGCCTT	TGTGCACGGATAGACCAAACCTTC

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch04	AGAAAATAGGCACCCATTGACGTG	ACGTCCATGTAAGACTCCACAGAG
ch04	TTTTTCAGATTCATTTTTTCAGCGCATTTT	TGAATATCAGTTGTTATGCAACTGGATTGTT
ch04	CGGACCCATGTAGGAACATAGGG	GCGTCTACCCAACCTACAACAGA
ch04	TCCCTCGACATTTACTTTTTTGGGTTC	GCGGTCAACAAATCCATTGCAAAAA
ch04	CATCTCAAGAAAATTTAAGGGAAAATACCCAT	TACCTTTCTGGTTCTAGGTTGTTTACTCTC
ch04	CCCAGAAATAATGGTGAGCATTTATGGAT	CTTCTCTAGATATATCCCTTTTCAGGTGGATC
ch04	TGCTATGTTCTTTTTCAAACATACCCAT	ATCTTCTCTAATGTTTCCCTATCATGAGGAT
ch04	AAATTAGACGCAAAAATGGTAAGATTGCAT	GTGAAATATGGCTCATTTATAGGTGGAGAAA
ch04	TCGACTATCACCAATTGAGTCATCACC	CGGCATCAAGTTAATAGTCATCCAC
ch04	GGCCCAAATGACCCACTTTTGATAG	GAAATGGTGGTGGCCTCTAGAAG
ch04	TGATTTTGCAGGTTGAAATGTAGAGAGTG	ATCTTTGAATCGATTGGGCTTTAAAACAGT
ch04	CTCGAGCCAGAGGAACCTAAGGCTA	ACACGGTGATACTCCATAAGCC
ch04	CCTCGCCAATGGGACTAGTAATG	TGGCACTGTGATACAATCTGCAC
ch04	CTTCTCTACTCTTACCTCATCTTCGGTG	ACCTCCATTCCAGTCATAATTCAGATTGG
ch04	AAACTGTATCACTGTTAATAGTGCAGGATTA	GTTATTGAGAGATTTCGTGATCGACTC
ch04	GCCGGTATATATACGACAAGACTCTTA	GGGAAGGTAGTGGAGGACTATTTACCA
ch04	TAGAGCAAAGCTTGAAGAACTAAAGACAAA	CATGGGCTTTTGTAATTTCAAATTCGCG
ch04	TCATCCATTAATAGCTCAATCATGTCTTCCA	GAACATTTTCCATGTCTTCATGGTT
ch04	GTAATGTCAGGGAGCCATTAATTAAGTGAA	GTAGCAAGTGTTCCCTAGAGATGAATGA
ch04	GGAATTACATGATTGGTTGGGCTAACAC	TGCTCCAACATAGGAATCTATAGAGTGAGG
ch04	GGGTACTTACGGGTAGTTACATGCA	TCATGTTTAGGGTCGAAAATTATTGGTAGGA
ch04	GGATCTTAATTTGAGGTCGAGTTTTGGG	TCAGAGCTGGAATAGGATTAAGGTTAGAATA
ch04	AGTCTTTTGCACCTACGGATTTTCAG	GCACATTCAAGAAAACCAAATCTTCAACTAC
ch04	GAACCGGGATTGATACTAAGCATAAAATTTA	CACATAATGTTCCAGTTTGAAAATCCTTGAA
ch04	GTAACGATGTAACCTAAGAGGCTCATC	CAGATCTAAGGTCTTCCATATTTTCATCACAA
ch04	GACCATAGATCAACTGATGGTCCATC	GATGTTGTCGTTTATAATTTGGTACAGAAAGT
ch04	CCGTATCATAAGGGCATCGATTACAT	GCCTACTTTAGCCACTAGGATTTTATGTAT
ch04	GCCATAGCTTATGGATATAGCAATGGTA	GGGTTTTTGAGCTGTGACACAGAA
ch04	GTTTCATAATCACATGCCACTACTCAGAT	CGTCGATTTTCAAAAAGATATGTTACATGGTA
ch04	ACAAGTCTCATTAGAACTAGGAAGAGTTCAT	CGGGCTATCACTTGTGTGCTGTAATAAG
ch04	TAGCATGACCAATTAGTGGAGACAACA	TAGTGCTCGACATCTTAGCAAGTATCTATA
ch04	GGGTTAATATCAAACCACTAAGGGTGAA	GTATGTCCTCGTGTATTTTAGCGAGTTT
ch04	CCAGGTGTCTCAATGACACACA	CATTTTGAAGCCTTTTCTATGGAATTAGTCG
ch04	CAGTCACTTCCTTTCTTCATCACCAT	ACACTAACATCCCACTTAAGGTGTGC

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch04	GGACCTTTAGCCATAATGTCTAAGTATTGGT	CCATGACATCCAAAACTAGGTTTAAAGTGT
ch04	CCTGATACTGGACTTTGGGTCTACAA	CTGTCCCACCTTGCAATTGAAATA
ch04	GAGGGTGATAGTTACTTCTTTGGCAC	CCCAAACCTGCTTGGAATATCTTTGCT
ch04	ATCTATGAAAAGTACATGGAAAATCGACCAC	TTTAGTTAGGTTGATTCTAGAGGAGTCACAT
ch04	CTGATGCTCGAATAATTACAGACTCGTG	CACTGAACGTGTGATATAAAATGAGGTTGC
ch04	GGAGATAGTATGTAGTGGTGGTGACAAT	CCACCAATCACCTCCATAATCATAAGTAGT
ch04	CCCTAATCAATCCGCCATGGAAT	GTATGGCCTAGAGATGGTTGTACACG
ch04	CAGATGATCATGTCCAAGCCATC	CCCTAGTAAGATCAAGACATTCATCTGGC
ch04	ACTCCTTGACCAACATTAAAACATTACCTT	AGGCATCTAGAACACAGAAAATACAACCC
ch04	TGCCATTAAACGGACCGTCAAATG	TCTCGTGGAAGAAGGAAGAACCTC
ch04	TTTTTCGATTTTCGTGTTTGGAATTAGCA	TAATGAAACCTGTTTTGCTCTTAACTGACAG
ch04	CCCTTCTTCATTCTTGCACCTATTTTC	TGAGCCGAATGACTTAGGTTTACA
ch04	CCCGACCTTGTTCAACAAATAATGGA	GTGAACAAAACCTAACACTATGGAAGTTTCCA
ch04	TGGATTGTTACTTGTACATGAATCACGTT	CCAATATCAAGTCGCCACGAAGAC
ch04	CTGCTCGGTATACCTTTGAAATGCC	CGAGTAAATTGCACAGAACCTTAGTAAATA
ch04	CATGAGTAGAGAATGACACCTACTCCTA	GGTATGCATTCACACTGATAGTTGGTATACA
ch04	GTTCATGGACCGTGAAGGGAATT	CCTGCCTTCATGTTTGGTAGGAC
ch04	ACAATGAGAAAATGGTGTTCGATTTAGAACT	TCTTTTTGTAAATTTCGATAACAACCTCGCATG
ch04	GTGGGATCAGTCTTGCACAGAAA	GAGGAGTTGGACATGACTATTGCTG
ch04	ACTAAACCTGTGATTCTAGTTTTAATTTGTTTGT	TCGTACTTGACATCTCAAAGCTCTTATAAAAGC
ch04	AGACTACAACAGCATGAACAGATCTTTG	GCAGTCTTTGGTTTTTCTCGCAAATTG
ch04	CCTACATGCATGACAGTTTTTGTGTCT	AACTGCCACAAACCTTCAAGAGAA
ch04	CTCAATTTCGTGATTATCAACAGAATGTTGGA	GTTTGCTCGGTAAGCATATTTAATCTGCT
ch04	CAAACACTTTCTGACAAGGAAACATAAAAAGAG	CCTTACTAAAAGTGGTTATCAGCTTTTGTTTA
ch04	ATTTGGACAGTCCAAAATATTCAAGAAACGA	AGGTGGTTTGACAATAACGCATTTGT
ch04	GACATAATACACATAGGATGTCGTGTAGGA	GGTGATATTTGACTGCAAACACGTATAGTT
ch04	TGTAACTGTTTTCTCCTCTGAATATGATGCA	CCGAGACTCAAGGTCAATATTACTACCTTT
ch04	TAAGCATGTGAAGCTTGGATTGCTAT	CACTACAAAAGTTATCACATGGGATTAGGTA
ch04	AGCAAGCGACAATTGACAACCTAG	GAAAACGTTAGGGCTACGAATGTCC
ch04	CCACCTATGGTTGGCGTCAATTA	TGAAGCTATCGCTCACTATTATCAACTACTA
ch04	AGAAGGAAATCAATGGCAAACAGATCTC	GCTTGTCCTGCATTTGAATTACTCAAATATT
ch04	TCCAGTTGCAAGCTGTCAAGATT	CGCATAAGTTCACAATAATGGAGCTCAG
ch04	GTGTACCTGTACCCGCTTCTTTG	CAATCGTGTGATGAAGTAGCTTTTGTTC
ch04	CTTACGTGTAAGATCAGCAAGCAGAG	GTTTATTGGTTTACGCCTTTAGTAGGTCAC

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch04	AAGTTTAATAATTTGGTGCAACATGGACAA	TCGCCACAACCTTGCATCTTTTGA
ch04	CCTGCATTTACTAGACCTATACTATCAGCT	CCTAGACTCAGCTCAAAGACAATTCAGA
ch04	TCGTGAAAACTAAGACTGAGTACAATTGACC	AAGCTCCCGCTATACGTGAAAAATATG
ch04	TCAGTTGTCTTTTCGGGAAAAATTCATCT	CGATGCTCAGGTAAAGAAAAATTTATACTATGCA
ch04	AGAGAGATAATGTGACCAAATCAACTAACT	GCAAAAAATCATTTTCGCATCGTAAGCAC
ch04	AGATGCAGAGAGTTGTTTGATAGAGCA	TGGTGAGAACACCGATAATATTAATTCCTGCT
ch05	TCTCAATCTTTTGTAGATTGATTATGTGGTT	TCTGTAACCTACCTTTAGTCTTGTTCAGCA
ch05	AGATCTCTAATATCCTTCACATACCTGCAT	TAGGTACATGACCTAGTCTTTTAAGCCATA
ch05	AGCAATCAGATTTCTTAATTCAGGAGATT	TTCGTCCCAACAGACCAGCAAATT
ch05	TCCCAGGAAAGGAATCAATAAGTTTTGAAA	ACACCTTGTAAGAACAGACTAAGTATCAACA
ch05	GAACCACTATCAGAAGTTTTGCAACCT	GCCAACATTTGAGAGTGGATAGTTGG
ch05	TTGTGTGAATTAATAAGTAAAGACAGCCATC	CTTCAGCATCAAAGAAGTAGACACAACA
ch05	CCTCACATTTGACACCTACCTCTT	TATCTCCATCCTCGACACCACTTT
ch05	ACAACCTTTTCACTTTTAGTTAATCAGCTGA	AGTAGATTGTCGTGGTTGTTGCAC
ch05	GCAAACCCAAGTCCATGCAAAAA	TGTCACGACACCTAATGATCTCGAT
ch05	AAATTAAGACTCAATTCTCGGGCTCTTTC	CGGTCTGTCATGATTGTCGTGAC
ch05	TGGAGAATAGGGTATACTCTCGAAATGTG	GTCTGATCATTCACCAAATAAGCATGCT
ch05	GTTGTGGGATGTCACCTAAGAATTTGACA	CTTTTGTCCATCAACGGACTGTTGG
ch05	AATCGTCCAAGAAGATCCATGATATTCAGA	CGACGCGAGACATGCTTTATTTG
ch05	AAAAGTAGAGAGAGAAGCTCTCCCTTC	TCCTTGTTTTCTTTGGAATTAAGTTTGCA
ch05	GGGTTAGACACCTATACTTGTTAACCAT	CGTATGCTCCATCTTTTGTGTTGAATCC
ch05	AAAATGATCTAACAACCCACCACAAATGC	CTACTGGAAAGGCCAAAGCCTATATG
ch05	CAACATCCTTCAATGCTTCTTTTCACAT	TGATAGTTGTGTCCGTCATGTGATGC
ch05	AGCAAATATGATTGTAAACGAAAGGCAA	TGTGTAGAATCAAATGGAGTGAATATGCAC
ch05	CGCATTCTGCCTCGCTAAAGTAA	GCACGAGTGTCACGAGATCTTCT
ch05	ATGTTCAAGTGGTGTTATGGGACTTC	CCATACTACCAACCTTATCAAGCATTTCC
ch05	GTGGACAGGTGAAGCAGGAACAA	GCGATGAGACTGATCCCGAATACG
ch05	CCCAAGATCAGCAAATATAGATAGCAT	CTTCCAAAATGTGACAATCGCAACCAT
ch05	AAGAACTTGACGGATACAGTAGAGCTAG	TCTGCTTGGCCACCTCTTCTATATT
ch05	GACTTTCAGTCATCATTTGATATTTTCGTTTAGGA	TCAGATGTCCCTAGACGTCACATAAA
ch05	GGCCGTAGATGGTTATCGTAGGAA	CCATACTGGTCAACCATGGAAATATTTAGAA
ch05	GACCATAGATGGTGACCTTTGACTAAAA	ACATCTTCTCTGATTTAATCGACAAACCAA
ch05	CGCGTGAAACGAGGTGAAATAACA	TTGAAATTCGAATTCTTTTCCTTTTTTGGGTC
ch05	CATTATGTGCGGACTATGACTTACGAC	AAAAAGAAAGTGCAGAATCAGTATACAACCA

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch05	CTTTTCCATTGTAATGTTTAGGATTGTCGTA	AGTACAAAACAAGGAAACATAGTAAGCCTTC
ch05	TAGGAACCTCAACCTCACTTTTCATTTCA	GCGTTCCTTTTCTTCTTTATCTCCTTTGTAT
ch05	CCCCAAAATAGATAAAGGAGGAACATCCTA	GTTCAAAAAGTCTGGGCATGACTTCC
ch05	TCAATTTTCAGCATGTTACATTTTTGTCATA	AATTTTAAGGAATCACAACTCAAGTCGTTGA
ch05	GCATCCATAAAGCAATCCATGTCTTTA	AAATGTGAATGATAAGCGTATCCAAAAGTGT
ch05	GGTTGCGTAGTAATTCAGGTGAAGTA	TGGGAACTCCGGTTTTTATGAAAGTTTTAT
ch05	AGCACACATTTTCATTTAGTTACAAAAACCAA	GTCTAGGAAGTCGTTTCATTTCTTTACTCCT
ch05	CTCAAGTTGACAAAACTACATGGTTTAGAA	CAAGTGCAACCTATTGTTACAATCCATGG
ch05	CATCGATGGATCATAGCCTGACTC	CCCTCTAACTATCTGCTAATCCCAC
ch05	GAAAGCATGAGCTAGTACCTCGTTAG	TGAGGCTAACATTATTTCCCTACTCTTTGT
ch05	CCTGACTGGAGGTCTGAAGACTTA	CCACCACTTGGCCTTTTCCATATC
ch05	GGCTGAGGGAGTAAGTTTATGAGATTTT	GTGACGAATTCGCAACACCTTAATTTATATA
ch05	CACAACCAAGTATAATACCTCGAGAATGTA	TCACATTATAAGGCATGTCTTTACGCTG
ch05	TCAGTCTTCAGAACATAACACGTTCAA	GTGGTTCAGAACTGGAAGAATATAATCGTAA
ch05	AGCAGCATTTAACAAGTCACCAGAT	GCCTGTTGAATTCCATTTCCTTTAAAGC
ch05	CCACACCAGAAATGTCAAGGAGAA	CGTATGATATTTGCACGGCGAAAG
ch06	TTTCTTTATTGGTTTCCCACCCGATG	AAAAGTTTCATTTAAGGAGTTTAACTACTACCCT
ch06	ACATGTCTCTCTCTTTCCATGTTGTTAATTT	GAGCATGTCAACCGTTAAAGTGGA
ch06	CATTTCTAAAGCCAAAATGTAATCAGCTGTC	CTCATACTCCTAACAAGGGAAAGTTTGATTT
ch06	CTAAAAACAAGCCTACATCTCCTTGAAGA	TGAAGGTCTACGAGTCTATCCCAACG
ch06	CTGTGTTGCTTTATCAGTAGCACTTCA	GATAAATGACAGAATACATGGAACACGTTGG
ch06	ATTGATCATAATTTCCCTACTGACTGCCTTTA	TTTTGCCATCATAGTTGCAATGCTC
ch06	TTTTTCTTTTTCTTCAATGTATCGCTTTTGTT	ATGGTAAAGCAGCATGGTCGAA
ch06	AAACTCTAGTTAGGTAGTTTACCGCATTCA	GTGCTTCATACTTTTGCTAGAGGATCATATT
ch06	GGGTCGAAATAAAGAGTGTGGATCAA	GTGTTAGCTGTTGAAGTTTTAGTGCAC
ch06	CAAGGGCGAATATTGCATGTAACAC	GATTACGTCGGGTGTGGCATATTATTATG
ch06	CAGTGTTTACTGTGGTGTAATTGCTTGT	AAGCAAAGCCTATTTAAACAGTTTGAGTCT
ch06	ACAGTCGAGCAGAGAGAGAGAATAAT	CTCTGGATCATCGTGATCAGCAC
ch06	CCAGCTTCCCTACAAGGATATTGTGT	AATTTCTAACACTGTATTATAGCAGCAGCTATA
ch06	GTTGACGTTCAAGATGACGTTTAGGT	GCCAATGTGGACTTCAATGTAAACCT
ch06	CACGGCAGCATATCAAGACAGAT	TGTCCAATCTTCGCCCATGAAATAA
ch06	GCTATGGGTGCTATGGGTCTGAG	GTGGTAAAGTGTATCATATAAGTCAACAA
ch06	GCGTTAAAGGCTGAAAAATGTGCAC	GAGGGTTTTGTAAATGCAATTACATGCG
ch06	CCATTTCGTATCATGTTTGTAAATTGAGAAAGAT	AAAAACTGGTTCAACAACATCAATTTCAAGA

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch06	GGGTTTTCTCACCAGGGCTAAT	TAGCGTGCCTTAACCTATTTTACTATGTTTT
ch06	CCCTCTCTTGACACCTTCTAAGATCA	TTCAGAGGAGTGCAGAGAAACGT
ch06	CGAAGGTAAAAGACCACAAGGAAATACAA	TGGCCAGAAAATTTGTTACGAGACAC
ch06	CATGAATTCAAATTACACATCGCATATCCAA	CCAGTTTAAACTTGATTGGGTCCTTTTAAAT
ch06	ACATGTCCAAGGAACACAAATACAACCTT	TGTAGTCTAGCCTTGCAACAAGTTGA
ch06	AAGAGGCTGAGACATCCGGTAT	AAAAATGCAAACTTTGGTAATGAAGAATGTC
ch06	GAATGTTATATGAAGCAACAAAACAATGTATGTG	AAAATGAAGAGGAAAATCACATATAACTAGCCAT
ch06	GGGTGTTACAAGTAAACACGAATATCAGT	TTTAGGGAGCGCTATAATGTTTCA
ch06	ACAAAAATGCGCTTGATCCGTTC	CCCTTATTGACAAGCTCTTATATGGTGTGT
ch06	TTCCAAATCTTGACTAGGTTAGGTAATTCCA	GGCTTAGGGAGTTGGAGCTACATAC
ch06	CCCGGTTTGCAATTTCTTTTCCTT	AGAATCTGGTATAGACAAGAGTGAAGAAGAT
ch06	GGCTTGTTATGAGAGGTTGCATGA	GAGACAAAGCTTGGAACCTTAGCCTC
ch06	TAAGTTCAAAGACAGTGTTTTTGTCATTTGGT	GCCTCTTTACAAATGAGTGTATGAAAACAAA
ch06	ACGCTTAATCACACCAACTCCAA	TCTTACCATTTTTCATCTTCCCTTAGCTTCC
ch06	AAAAGTTTGGTATTACCAACTTATGGCTTT	GTTTTGAGAAAATCAAGCCGTCGTATTAATA
ch06	TGTAATAAACATGCCAAAGAGAAGCCTT	CTTTTGAATCATCTCATGGACTTGTACCTT
ch06	CAAGGGTGAGGTCATGAAGTCTC	TTTCTATATATGGGTAGTCACCCAAAGAGTT
ch06	TCTTGAAGGTTGTGTGAAATGGAATAGTG	GAGGTTCAACCTATCGGTTTCATCAATG
ch06	CCCAACAGGTCCAGCATAGAATT	ATAGATCTGCACCAATAATTCAAAACGTTGT
ch06	GAAATTAGGGTCAAGGAACAAATTTAAGAACAT	AGATGTGCATAAGTTGAATACAATATAAGCTAA
ch06	GGATTAGGGAGTACTAGTCAAATAGAAGGTA	CCCAGCAACTAAATATGCACAAAAATCAAG
ch06	ACCATGTATTTCACTGCCTCCTTTA	CTTTTAAAAACCAAAATCTCCAGTTGGGATAT
ch06	CACTTTGATCAGCTATTCAAAATGACAGGA	CAATTATAAGATCAGCAGGCAAACTGAAATG
ch06	GTTTGGCTGGTTTTACAGTCAATTGAA	TGTTCCATGTTTTCTTCATATGAACACAT
ch06	CATCTTTGTACAGTTGAGCTCGA	TACAAGATAAATTAGGAGCTTTTAGCTTCCCA
ch06	CCTGGCTGAGGGAAATCTATTCCT	GGAGATACAACATGGATCACAAGTAAGAAAA
ch06	ACAGTACCATAACAACCAGCAATATTGAG	TTGGATCTCCTTCCATACATATACCAGAAT
ch06	GCATAACTTAAGTCGAGGCTTGAAAAT	GAACAAGGACGAAAAATGGTGCTA
ch07	AGATTGATTGAGGTATGAAGTTTATGAATGAAAA	GGGCAATCGACTCAAACGCA
ch07	CTTTAAGCCAACAAAACACTTCAACTTTGA	CACCTTGAAAGCCGACGAGTAAG
ch07	TCGTGACTCACACAAGACTCATCA	GCTGTTACATCTCATGACTAAGTTATGCAA
ch07	GCTATTCCAAATTTGGAATGGTGAATGAC	CACAGAATGCACATTCAAAAGGTACTTTAC
ch07	GAGGTTTGTTTAGAGCATCAAGATTCTGA	CCCTATTGCGCCCTTTCTAGTTCCA
ch07	ACCTTTATGAAATTTCAAGTGTGGCAGTAG	TTCCGCCAGGAACTCTGTTCAAA

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch07	CTGGTATATTGATACAATGGAGAAGTGCTT	GCTTGAATTTAGTTGGATCTGGGTTTAGTTT
ch07	TTTTTGATACCGTCTTGTGTACAGACC	AACAAGACAAAGGCGAAAAACTCATTC
ch07	CCGATGGGACATAGTGTGGAGTAG	TCTATCTCCAACCCCTCCACCAATG
ch07	TTTAACCTCCCATGCATTTATGTGGAC	GCACTACCTTGGCTGTATCAAAGGA
ch07	TTCTGCCATAGGTAGTGGCTCTAG	TTAGGTGGAAGATGACCTTTTTCTCACT
ch07	GCAGAAGGTTGTTTGGGTTTCTAGT	AGATTGATAAAGAAAGGAGAAGCTTGGAAGG
ch07	TTGGACGTGTTACAAGTGTGTTGATTTGG	GATGAATTTTGGCTTGGGACCTTC
ch07	CAATCGACGCAATAATTTTAGATCACTGAT	AAACAAAGCTCTAGGATAGAGTTATCCATTA
ch07	GGCCAAATCATAGTTAGTCGGCTAC	TGTAGGACCCACTCTTCGTCAATG
ch07	GGTATATTCAGTCTAGCCATAGATGTTT	GACATGATAGCTACAATCATTAGATCTCCAA
ch07	AGTTTCTAGAGTGTCAATCCAGGATACAT	CATTCCTCATACGCGTGGACTAAC
ch07	CTAAGTCACGAAAGTCTTGAATTGTGGA	CTTGATCATGCTATCAAGCTAAGAGACAAG
ch07	AAAAATGTGCTAGAGCCTTTTTTCACCT	ACATGGATCAGTTGAACTGCAACATC
ch07	TAAGTTGCCACTCATCCTGATTTTTTC	GCAATTTATACCTAGAATGTGGGTCTTTGT
ch07	ATTTAAGGCATATAAACGGACCACTTCAC	TGTCAAAGATTTGAATCGTATTTGTGACTTT
ch07	ATGACACAAGAGTGCTCCTTTCTCA	CCCATAGCTTCCTGAGATGCTAAAG
ch07	CCCAACTTAGGCGTTTGTGATACA	TATTCGTTAGTCCAGTTGACAAAGTAAGGA
ch07	ACATGTCTTGGCCTGGGTTAAGT	TTGGACTAAACAAAGAATGATTATTGAGGGTA
ch07	TGATTGGATGAATTTAGTTTAATCAACCGTT	GTGACAAGAATGGAAGAATTGTGACTTTCT
ch07	CAGTCAGTTGAGCGGCTTTAGAG	GGAATACATGGAGAACTTGAGGAAAGTCT
ch07	GGTTTCGTAGCGAAGGTCACCTTT	GCGATCCTTTGACATATGACCAAACCTTC
ch07	CATATGAAGACTTCCCAAATAGCCCTT	AACATCAAGGAAGGAGTTCTGTTGTA
ch07	CATTTGTTTTTCTTCAGAATGTTTATAGCGTGA	AGTCCATGATTGGTTTCGGTTTAGGC
ch07	GGGATCTAGGGTTTGTAAACCAACTC	TGCTTGTCATGTCAGAGCAAGTG
ch07	GCTTTCTTTCTAAGGTATGTCTAGTGCAT	TCCTTTTTTGATTTAGCGATGGACGAATTG
ch07	TGAGTGAAAAATGGTTAGTTTCCTAAGGACT	TCAGGATATTTTCGTTACACAGCTAATTA
ch07	CCGTTCAATTTTTACTCGTTACTTTTTTAACATGAA	TGGTCTCACCTGGTAATTAACAATCTTTTTTT
ch07	CTATGCCCGAAACCTCAGAATTGA	GGCTCAAAAGTTATAAGTTGGGCTTG
ch07	GCCAGCAAGAAATGACTTAGTCTATCTC	GGCTTTGTAAAAAGGACCAGGAGTTAG
ch07	AGATGATGTTAGTTGATGGTGTGGTT	CATTATCTGCATTTGCAAACCTAGTAAGCT
ch07	GTGTGAATTTGGATTAGTTGTGCTCAG	TAAGAAGACGATTTTGAACGATTCCAAT
ch07	TTTTTCTTTATCGAGTGAGATAGGCATCTC	AGGATCTAGAACACGAAATCTAGTGCA
ch08	TGCCAGGACTAAGGCTAGGAAAA	GCAATTCAGCTAATGTCATTGTATCTTCCC
ch08	AAGGATTGATACCTATGGTTATGGAGTCTA	GAAATGAGACTGAGCAAAAGGCTTGT

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch08	CATCTTCCCATTTGCTCGACCATA	CCCAACTCAAAGGAAGCAAGGTTATTATAAC
ch08	ATGCGGAGCACGAAGCTACCA	AAGAACTTCTAGATTGTTGAAATTGCTTATGTAA
ch08	TGTCATAGTAAGCAAAAGTGGTATGTTGTC	TATCAGTAAACAATGATCCGGTAAGAATCGA
ch08	GAGTTGGGCCCTGCAATTTATGTT	AGGTTGAAGTTAGCAAAGTGACAAGTATTAT
ch08	CCCGAATAAGCTAATTATACAGAGTCCTA	GTGCACACAACATAGGGATCCTG
ch08	TCTATGTGCCTATGCAAAGAACCTTT	AATGCCGCACGGAATCTTAGTAAG
ch08	CTATATGATCTTTCAGCTGTTTCAGGGATG	CGAGGAACCTGGAGCCCTACTAG
ch08	GAGCTGAGGCACAAGATACATCAA	GGTGGAAATTTAGTTGAGGAAGATCAAGAAT
ch08	CTGAGTTGCAAGTGTTATCTGTACATATGAA	GCGACTCCTCTGCTATCTTGAAAATTATAAG
ch08	TGATTTGAAGAAACGGTTAGCACCTTT	TTGCATCTCCTACTCTATTATGTGCCTAT
ch08	ACAATTGTGTATTGCATGCCCAAAC	GATTGCGATGGGAGAATAATAAGAACATCA
ch08	CCTCGACCATGAGCCTACCATAG	CCTGCCGTGGGACTTCAATAGA
ch08	TTCTTTTCTTTGCTTTGTTTGTGTTTGAGTGT	TTGTAGGCAGTGACTAAGGCAAGA
ch08	CCTCACCGCTAGTCCATACAAGA	CTACATGAGTACATTGCCGACCTATG
ch08	CACACCCTTCATGGTCGACATATG	GAGTTCTCACCTTTGCCAAAATTTGAG
ch08	ACTTAGTGTGAATTTACAACCTCACTCATTAA	ACACTGCCAGGATGTGGACA
ch08	GCGGCACTCATCGTGTGTAG	GAGTAGTAAAGCTCGGTGAATCAATCTTAGA
ch08	GCTGATGTTTTAGGAGAGACATGAACAC	CTAGCCAGAAGAAATTCCTCCTTAAGGC
ch08	CCTTGTCGAGTGCAATTATTACTTTGATC	CGAAAAATTCTCGAGAAGAAGATGTTATCCA
ch08	CCGACCAGCTTGAGACTAGACTA	TCATAGCTTTGACATACATGACAAACCAA
ch08	AATCCCAAACAAATTTATCATTTGAGTTTTCAA	GGCGAGTTCATGTGGACGG
ch08	GGCAAGAAAATTTGGAAGGACCAAA	AACGATGCAAAGATTTCCCTTTTACACG
ch08	ATTCACACATTTTTGTGTTTATTCATGGCT	GCCATTTTCAAGCACGAGCAAAC
ch08	GAATCGAACAAGTCTTGATTCAATTGAACAC	GTTTCAATGTGAGTGGTTTTATAGGTGG
ch08	GGTCTCCTGTGGATTAGGTTTAGGC	TAACAAAGAGTGTAAAACTCTTACCAGCAT
ch08	CACCTCTTCATATTGATTCTCATGTTTACAA	GGTTCCCTTTCTTGGGAGAAC
ch08	ATAAGCTATTTTGCTTGAAAACACCTGC	GGTACATGCAAATTAAGAGTCTTAAAAGGGT
ch08	TTAGCTCGAATTTTCATCTGCAAGATTAGTC	AGACCAAAAGAAAACCTAAAACAAGAATGC
ch08	CTGTGGTGGTGAGTTGATTTGCT	ATATCTGCTACGACACTAAGTTTCAGCA
ch08	CAGTTGAGAATGTTGCTTAGGAACTTTA	GGTGTGTTGGTATTGCCAATTGGTATTTAG
ch08	TCCACACCCACAAAAGCTTTGAC	GGGTTGCTTTGTATCCTATATTTGCAAAAT
ch09	CTCAAGGATAGTGGTAAGGTCTAAACGT	GAATCCGAACCTTCGGATTAGACC
ch09	GGACGAGACTCGAGGAGGTAAGA	ACTTCTTAAACACAAAGCAAAATACAACCAA
ch09	ACCCGCACTGTAAGGATTCCTAT	GACGTTAGGAAATTGGAGAGTCGAATG

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch09	GCATGCATGTCACAACTTGCAA	GTGTCAAATTAATACAATGGAGCATGACATT
ch09	TTTTTGTTTTCCACTCGTTCGGTATC	AGGTTTATCCCTTCGTTCTTAATCGAGA
ch09	GACTCATCACCAGTCAGCACTAG	TTCGACCTGGGTCAGAGAGTTATATG
ch09	GTTGATTTTTGGCACAGACATGCTT	AGCACTTGTTACTCTAATTGAGTCATTGTT
ch09	GAAGGACGTACGAGGGCTAAACT	GGAGGTTTAGGCGATGTGGATTGT
ch09	ATAATGGCAAAAGGCTTAAACTTTTGAACTC	CCCACACACATCACTAAGATAAAAAATCATTG
ch09	ACTAAAAATTGCTAGCTTTGATTTCTAGCTT	CATTTGATTGGAAACAAGTTACCCGAAATT
ch09	AATCAAAGACCATCAAAATTTGGTCGTTA	TCTACAGAACGTAAATGGACCTACTCTTTAT
ch09	CCTTGAAGTAGTAGACCGAATAGTGGTG	ACCTCCAGATAACTATATTCGCTCAGTG
ch09	ACTACACTTGATAGATGAGAACAAACCACA	GCAACATCCAATGTATGAACGCATCA
ch09	CTTTAAGGCAAGACAGTGTGCTC	TCAAAATATCAATCTGCCAGTCTTCATGATA
ch09	GATTCAAATGGTATCCAACCTCCTTCAC	CCTGATCCCAACCTCGATAGCTTATC
ch09	ACTGTGAAATTCTCTAACCCAACCTTTGTA	GCAAGGTCCTAAATTTTCCACAACCTA
ch09	GAAAATCTTGTGCGTTAAGAGATACTTGG	ACATCTCTATCAAGCCTAGAACTACCTCT
ch09	ATTCAGCATCCTAGGGAAATTGAGACA	CGTGAACTTTTCTGTTGTATGATTGTCAAAC
ch09	CACAGGAGGTGTGACATGTTTATCAC	TCTTACTGTTGGACTGCTAGAAAGAAACC
ch09	ACAATTTAAACAAAACCAATCGAACATTAACAA	CATACCATCATCAACTACTACATTTCCCTCGT
ch09	CTGCTACTTCTCGACTTGTATATAGGCG	GCTCCGAGGCTTTACTTCTAGAGTTTAA
ch09	GCTTTTAGCTTCGCTATAGGTGGTT	CACCAAGTAAGCATAGTTGTGTATTCATAGA
ch09	ATTTTCATGTTTCACAAGAATCACTTGTCTCC	CTTCATTCCTCCTTGGTGACAATCATC
ch09	GACTATTTCTGTGTATTCCTTCCCTTC	GAGTTGTTGCTCCACAGAGGATTC
ch09	TTGTTTAAAGTAGATCTTGGATTCTGCTGTT	GCACATTTTCTCCTCTTTTCTTAGTTACC
ch09	CCCTTTGTTTGTGATGTTATTCAGTGT	CAAATAACAGAAGACGCTTCACTAATGACA
ch09	TGCTTTCTTCGTTGCAGCGTATAA	TGAAAAAGCTTTTCGACATTGTTCTTTTAC
ch10	TGGTTTAGTGGTTGGAATTTGGAATTTGG	TTTGCACACACTTCCACTAACTCAT
ch10	ACAACTTATCTGTACATGACTTGCTA	AGATGAAGGTCTTTTCGGAAACCAAC
ch10	CAACTTACTTGTCAATTTGATCAACCGAG	CGTTGAGAATTGATCCCAGGATTATGTTC
ch10	ATCATTTTCACTTTTCTGAAAGTTTGGTTGTT	AAGATCAAATCTTGCCTGATGAAACCTATAC
ch10	AGAAAGTCAAGTAAGAAATGACATCACGATT	CCTCAATACTTATTCGACCTAACTCTACCTC
ch10	CCCAAAAATCGATCAGAAATGACTCAG	TATCTTGGATGTCCATAAGGAGATCAAGATG
ch10	CTCTACATTCAAGAAATGCTAGACAATGCC	ATCATGCATGATCATTACCTTTTCAAGATTG
ch10	CTCCCTAAATGAGGAGCACACATT	TAGTTCATCTACAACAAGGGTGGAGTAA
ch10	GTGATTACAGAAAGAACGTGAAAAAGGGA	GACGCAAGAGTCTAGAAAATGTATGATGT
ch10	CACTTTCATTGAGAATCCTATGAGACGTT	CCAAAAATTCATAGGCCTGAAAAATTCGTG

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch10	CCACATCAGTGCATGTAGTCTTTGG	CAAAATGTCCAGCCAAAATGTACGTG
ch10	AGTAATTTTGAATCCACCTCAAGAATAACAT	GCAAACAACAAAAGGTCACAATGGTACC
ch10	ACGTCACATAGAAATGGATATGACATCTA	GGCGTTTTATTTAGGTGATGGTCCTTATG
ch10	CAATGTGTGAAGGATACAGACGATGTT	CATAGTGGTCATTTGATGTCAAACATGGA
ch10	GTGTATATGAGAAAGTATTTCAACAACCCAA	GTTGACTTAATAGGGATTGAGAGTAAAGCTA
ch10	CTTTTCATGTTTCATATGGCTACGGTAGAT	AAGGAGGAGTTGTTCCCATCTAATTTTTTA
ch10	ACCATACGTGGGTCTCTGGATTA	CAAAACGACGTAGGAACTAATTAATCAGACA
ch10	TGTAAATGTAAACGTGAAGAAGAACGTCAA	TCATGTTCTTGTTTCATGTTGACATTCCTGT
ch10	GGATTTAGAAGTATGTGCACCTTTTCGA	TCACCTACCATCTCTACAAGCGAC
ch10	GGGTGTATGGAACGCCGTT	ACTCGAATTAGATTCTGAATGAGATGTAAAACAA
ch10	CCCTCTAATGGACAGTCAAAGAGAAA	TGGACCACCTTGTGGGTAGTAAA
ch10	AGAGTTGAAAGATTTAGGTTCTTGATGTGTT	GGATATTCCTGCATGAGTGTGGTG
ch10	GATGGAGCAGGGTGGTGATATATTC	CATCGCTCGATAGAGACTTTGGTTATAGG
ch10	TGGTTCTACCACCAACTTATATACGTAGGT	CACACTCTCATTTTTTCATATTCACTCTGTGC
ch10	CTTTGAATTTCAATTTGACATTTTCGGGTTT	TAACCTCCTCCTTTGTGCAGCAAG
ch10	GACCGTATCTTGCACTACTACAC	TGTTTGAGTTGTTTCATTGTTGAACGTC
ch10	AAATCTAGAGACTCATCGATGATTCTAAACTACT	AGTAGGTTTAAAAGTTTACACCTCACACTTC
ch10	GGAGAGGCGTCATGAATACCAGA	ACTACCTCTAGGGCCTCATTCATAGT
ch10	GGGAGGAGTTGTTTACCATGTTT	AAGGATAATGCATTAAAACCTCCGAAGAA
ch10	GAGCATATTTCTTCTAATGATCATTCACCTT	TAAGTCTAACGTTGAGTAAGCAAGTCATGC
ch10	ACTCTCTGGCTCAGTCCCTTACA	CTCGAGTCTAAAAGTTAAAGGCACAAATTGC
ch10	GGGTAGCATGGTTAGGAGTGAAAG	CCGTCGATTAGTCTATCAGGCAATGC
ch10	TGAGGTTTTGTGTTTCGTTTCTTGATGA	GAATAAAGGCACAGGGCTCTAG
ch10	TAGTGGATCCACCTAAAGCTACGAG	CCATACATAGATCGTCTGACATAAGAGAAA
ch10	CCCGTTCTTACCGGTCCCTATC	GGTCGCTGCAAGAAACAAAAAGTC
ch10	CAAAAAGTTGTTTTGCTTGGAATAGAGGA	ACCAATTCCACTGATTCATCAAGATATCTTT
ch10	TGGTCAACAAAGGAACATGCAAAAGA	ACTTCCATTTTATAGCAACCTTAGCGAC
ch10	CAACAGATAGGGACATACAGTTGATAGTCA	GGGATGTTATCATGATTTTCTGAAATTCAT
ch10	AATGTCATGATCTGTTGATGAGCATAATTTG	TTTAACTTTGTGTCATGTGGCTTCCATCTAA
ch10	TTGATGGATAAAATTATGTAGCAATGATAGGCA	GAAAGTTATGGTTCAATCTTTGTGTAATTTTCTC
ch10	CATGCCGACACATACTAAGAATGGA	GACTTCATATATCAAGGACATGGCTACAG
ch10	CATCTAAACCAGCTGGAACCTCCAATTAA	AGTAGTAGACCTTGTCCTGGTTGATTTG
ch10	TGTTCTCTTAAACGACGCCGTAAG	AGAAAGCATTTGGACTTTGGAATAAATTGCT
ch10	TGATAGAGAGATACGTATACAGTGACAAA	CCATCTATAGGATTTTCATGATAAGACGTCAC

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch10	AGATTCGTAAATTTAGTTGAGTCGGTTCAA	ACAATTGTTACTCTTTGGAGGCCGAATT
ch10	TGATTTTGATGTTTGACGATAGCGATAGTA	TTTTTCTTTATCTTTTGCCCTATAGGCCAAA
ch10	CGTTCCGAATGCTCACACATATGG	CCTCACACCGATCTAACTTACACAATCC
ch11	TTGCTGAGATCCTCCAAAACATCACT	TATTGGTGGTTTTACAAGTGGGATGTG
ch11	CGAATTTTTGCATCAAAAACGTTGTTACAC	TGACCCTCTAGAGTTACCTAAACAAAAGTT
ch11	GGTCATAAATTTCTGCTCCAACCCATA	AAGGCACCATTCCCACAGAATTG
ch11	TTCACTTTTGTAGTCGTTGAAAATTCATT	AGATTCCCAAGCCAATCTGTTATGTCA
ch11	TCACCACATATATGCAATGAAGAATGAAGTG	GAGCCGAGAAGAGTTTGATCAGAC
ch11	GGAAGAGATTCATGTTGGAAGTGATTTTTCG	CCTAGCCTCCTGCCTCTCCTATATATATTAA
ch11	ATCGTCAACTAAATACATACAACCAGCAA	CCCTTTTCTAAATGGTGATTGGAATGAAAAG
ch11	TGACCAGTGTCTTGGGTAGACAC	TGAAGGGAACCACGATTCTCTTTTG
ch11	AGCAAATATGTTTACTCCCAGTTCCAAG	TGGATGAGGTGAGGGTTTTCTTTCA
ch11	AAGTTATGTAAGTATTAGCTACGTAGCACATT	CGAATGTTGTGGTTGACAAGAGAAAGA
ch11	CTCCGCAGGGCAATGTTTCATATAT	GGGCTGAGCAAGAAAAGATTGGC
ch11	CAGCCCTACGGTTCGTAAGTTAG	GGTCTTTTCCGAGTCTCTACTATGCTTAC
ch11	CCTCCCAACCTTGGACAAGAAAC	GATGTGATATAATGAGACGCTCCATTATCAA
ch11	AACTCAGTTGAGTTTCTCAATGCCTA	TGACATTAGCTTTCATATTCCACAACCTCTC
ch11	GATGATGGTGCGATCTCCAGATG	ATTTCTCTCAATCCACTCTCATTTAAGGAAC
ch11	TGCAGGTCCGTCAATTTGTGTTAG	AGTTTTTGGCGCTCAAAATGATAGGG
ch11	AGACTTGGTTTTGCATTTCTTTACCT	TCTCATACGGAGGAGGTAGTTAGAATTACT
ch11	AGTGTCTTCAAATATTGGAGGTTGGTTG	GGACACAATGGGTATTTCAGAAACAAAT
ch11	CAAGATAAAATGCAAGTACAATCTGCATCTA	GTTAGAAGTAGTTGAAGTGGAAGGGGTATG
ch11	CAGTGAAGAATATGAATGATTCGAAGAGGAT	CACCACAGTCAAATTACAATCTCTAGGATTA
ch11	CAAAGCCTTCCGTAGGCAGAATAG	TCTTATGCTCACACTAGGTGAAGAGATC
ch11	GGCAGGTTACATCTTCCAAGTTCTT	AGTCGATGTGCACACGACATAATAGA
ch11	TAGTATGGTTAGGTTATTAAAGTCGGGTGAAT	GCAATGTTAATCGACTGAATTAAATGATGCC
ch11	ATTATCCTTCTCGTCTTCAAAATTCTAGCAT	TTGGTTGAAGTGCACAAAATCTGTTAAATA
ch11	TTTTTTCGTGTGTTATAGTCCATGGATCATG	CTCATTACGGAGCTTCTCGTAAAGTTT
ch11	CAAGAGTTAATGTTGGGTCTCAATTTGGA	CATTTCAACATTGGCAATAGAAACGTTGT
ch11	GGACCTACATTGCACTAAACTCCAAA	TGTGTTTCACTTCTTGTGTACATACCATCTTT
ch11	CATCCTTACGTTTCATATCACCTAACAACA	CCGAGTTCACTATGGATGATATAATAGCTTT
ch11	AAAATCGGCGAGCCTAGACAATC	GATGTGAGATTGGGAAGGTTAGCAAA
ch11	ACCCTAACTGCTTAACTAATTAAGTTCACCT	CAAAATTAGGTAGTGTTGGCACTGTCTAC
ch11	ACGTGGAAATACTCCACCACAATG	CTAGTGTGAGAGATGGGAACCTTTGTTA

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch11	CAAGCTTGATATGGTGTGGTATTTTCGT	GTGTTTCATGTGGAAGTGTTAACCAATTG
ch11	AATTTTACAACCTCAACCCTCCACTTACAG	GGTCTTTGAGGAAGACCCCTTCAAAAGT
ch11	GAGATAAAATTTCTAGGGAGGCTTCATACCA	TCCTGCAGGTCCATCATCTTTGT
ch11	CCAAGTATCAACACTCCAGCGATAA	GCAATCGGACATCCATCAGATATCTTCT
ch11	GTCGACGCTTCGTCGAATTTTTC	TCTAGTCTCCCGCAAAATCCTCTC
ch11	TGTAAGATAGTATTAGGAAATGCTTGTGCAC	CGATGATGCAACATGACGTTGTCC
ch11	ACGTATTCCATTGTACGACGTAGATTGG	TTTCTATCATATGTGGATTGCCTGCATC
ch11	CCATGATCATTTAATCTACTGCCATCACTT	CTTCAGTTGATAGGATGCCATCTCATC
ch11	TCTTTTCGATGCTCCTTAAGTTGTGAT	GGTATGCGAACTATTATAAATCCCATCCATA
ch11	TACATGATCTCGATGGGTTTTTGACCA	CATTGGGACCAACTCACGCTATTAATAA
ch11	CTCTCTATCTCCATGAGATATGGCTGAG	GGGTCGTGACACAACATGGAC
ch11	TTGTTCTTTTCACTTTCTCACTTGTTTTCCC	GAGTAGTAGAAGTGGTTGGTGAATTGTAAAA
ch11	CCCTGGAGGTAGTATATTGTGGAATGG	CAGCAGCTGGTGTCTACTGAAA
ch11	CATTGACATGAACGTACCATATTGATTCAC	TTTTTGTTCAAATTCTATGACAGTGCACAG
ch11	GACACCTTCCTTGCCAAAAATAGCC	GCAAAGTGGCTCGATTTTGTCTCT
ch11	CCTGCCACAGTTTGAATTTCAATCAA	AATCTAGGCTCAAATGTATGAAGTGCAG
ch11	GAATAACTCAGAGCATCATACACTTCAC	GCAAACCAACATGCTTTCTAGTGTTTG
ch12	TATCATGGAATCATTTACAGGAGCAAT	TATTATCCGAGCAGACTCGTGAGAG
ch12	TGGATAGCAAGATGAAGGAGAAGAGTG	GACAGAAGAAAATATATACATCATCTCTCATTG
ch12	GTGGAGGAGAACAAGATTTATCTGATCTT	GAAATATAGAACAGTGAGTGCACAACATCT
ch12	CCCATATCTGAACAAACACATTTATCCTCC	AATGTGAGGAAGAATCACCATAATGTTGAA
ch12	TGTGAACCTCAGAGCTATTAAATTTCTTACCG	AGTCAAATAAACGAGAAGTTGAGCCATTAAA
ch12	CCACGTCAAGGACCATAGTGTACT	GGTGTAGACACCTAAACTGGTTTTTGGC
ch12	GCTGATGGAGCATCCTGGTTTCA	ACTGGAAGCGTTTCTTCTCCAAGA
ch12	TGCTACCGACAAAGCCAACTATG	CGAACAAGGAAAATACAAAAAGACCCATAAC
ch12	GTAGCAGTTGAGTGAGAATTTGGCG	ACCACCCTCTTCAGAATCCAGTC
ch12	TTGATGCAGAATTGTTTCGTGTTGATCC	GCGTACTAATGTGATTTAGGTGTTGTTTTGA
ch12	AGAGGAAACTCAAATGGAAAGAAGTTGAA	AGTTGAAAAACAAGCAAGAACTTTTACGAT
ch12	CCACTCACTTAGATTAGTCTTTTTTGTAAGTCAA	TCGAAAGGGTCCTTCAGAAGGAC
ch12	TATATGTGGGTGGGAACGTCTGAG	CATAAGCCCACTTACGGGCTATG
ch12	GGACCCAAAGATTTAGGAAAAATTTTTCACCG	TCTCATGTATACGGTGTACGAAACTATCTC
ch12	GCTTGTGGACATGAATTGATTAGATTAAGGC	ATAGGTCATATGAGCAAAGTCCTTTTACA
ch12	CATTTGGCGAGTCACCAAACTTG	TTTACACATCAAGACATTTGGAAAGATGGG
ch12	AGAAATAAAGGTGAGCATAATTGACAGAGTT	CCATGTTTTTATGTTGTGAATGTTAAGGGAT

表 A.11 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
ch12	AAGATTCAGGAGTTAGACAAACATCAATGAG	CCACAAACTACATCAAAAACAGGTTTAGTAA
ch12	AACAGTGTTTCGACTTAAGTCAAGCTA	GCTTTACCTGGAAATGTAAAGAGGATTTTTT
ch12	AGTATCTATGTGTATAAAGGCATGTATTTCAAAC	GGCGCAATAGTAATTGGTTATTTATACTATGTTA
ch12	ACCTTTTCCTCAATGCGGTCTTC	TTGCATACATTGAGTGAGAACTTAGAGGA
ch12	TTTTTGACTCGCACCATAGAGTTGA	ACCATATTTTTTCGTCATTTTTGTGTCACAC
ch12	CCCAAACCTGCCAAAATTACAA	TAGAATATGTGGATTGACACTCCGAATTGA
ch12	CAGGGATGCTAAGATGCTGAATGAAA	AGCCTTGAATACAGACACTTTTGTGAG
ch12	GGTATCCAGAAAATAATGAACTGATTGCAT	TTGCTGAAAAAGCTCTTTCAATGAATGTA
ch12	CCAATTAGGCATACAACACAAGCTCTT	AGGCAATGTCTTGTATTTCTCAACATAAGAT
ch12	CATATAAAAACCTCGGAACAGAAATTCGGT	TGACCATATTTGGTCAAACGATCTATGATA
ch12	CTTGCTCGCCAAAATTTC AAC	GAGGGAAACAACCTAAAATACTTTTGAAGGG
ch12	ACACATTATTCTTCGTACCGAACACAC	TTGATACCAACAACATCGTTAGTCATAACTG
ch12	GCCGCTACAGTAGGATAAGGAGC	CAAGAATGGTGAGAAACGAGTAGAAATTTCC
ch12	AATAATAACTGGCTGAAGACACTGATGTTA	CGAATGAAATAATACTCCAACCTTACGGTAG
ch12	AATAAATGTCTAGTTAACTAACCAGTAGGGTTT	CATCGGGCTTGCTTAGTGTGAG
ch12	ACTCGGGAGCTTCTTGAATTGGG	CTCGATCAGAAACACGAGTTTGGAC
ch12	TCAGAGCTTAATGTTCTTCACCATTTACATG	CGATATGAAAACACATACCCAGGTGAAAAG

A.12 辣椒 MNP 标记引物

辣椒 MNP 标记引物见表 A.12。

表 A.12 辣椒 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr00	GGTAGTAACCACGATGATAGTAATGCAG	CAAGTATATCACAAACATGTCTAGCCAGAAT
chr00	GGCTTCATTAACCTTGGAGTAGATCCAT	GGAGCCTTTAGAGTAAGACCTCTAAAAT
chr00	TAGGCATTCGACTTCTTTTATGGATACCC	AGGATCATTAGCTAGATTGTTCTTCTCAGTA
chr00	ACTTTTCCCTATTAGGCCAATTATGGGT	TTTTTATGTGAGTTGGAAAAGGAGGTCAT
chr00	CAAGAGGCTGGCCTAAAAAGGAG	GAATGGATCGCTAGAACCTTGTCATC
chr00	TTCATCAACAAGTTAATGAACCAGCTCTAA	GATGGTTTTGGATCGTGATAAAATTCACAAAT
chr00	CGTTTGAACTGGTGAATAAGGTACTTCTT	GGTGGTGAGATTGAACACCCATTTC
chr00	TGTTAATTCCTTTATCTGGTGGTGCTTG	ATTGCAGGAGTTGCAAACCTTCAAGG
chr00	GCAAAGGTTATAGGCTATGGATAAGGGTAA	CCTAACCACATGTATGTCCTAAGATCAATA
chr00	GTTGTATAGGTGTCGTCACAATACATGTG	GGTGTCAACTTATCACCTTTATAGAAGTTG

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr00	GTTCCACATAAAACAAATCCTACCATCCAA	GAATATAGACCACACACATGCACAGAATAT
chr00	ACAGTATTCCTTAATGCATCAAGGCACATAA	AATGCGAATGTGACTCAGTGAGAAG
chr00	CATAATTTCTTACTCTCAAGCCCTAATGAT	TCTTTCTCAGTTCGATATGAAAGGATACC
chr00	GGGTCATCCCAATAATATCTCTTCATATCGT	TCAATACCATAGATAGAAAAGGGTGTGAGAA
chr00	GAGCAATAATTTAGAAGGTGGAGGATTGAA	GGAATTATCAGTTCACCTTCGTCACAAAAAA
chr00	AAGTGAACATCCAAATGACAATGCATCA	AAGTTAAAGGATACCACCTACTATCTTCCAC
chr00	ATCAGATGGAATCCCGAGACTCTTAA	AAGTGACTGCCTAGATTACTTTAAGATTGGT
chr00	AAACCAAGAGGAATTTCCCTAATATCCAGTCT	TGCATTTGGGAACAACCTGGGAAG
chr00	TGAGCCACTTTGAGTTAATTAATGGGTA	GAAGAGCTAGCTGCTTGAATGCA
chr00	AGTAGAGGTTTGCTTGATCTTTTGCAG	CTTTTAAAACTAGTGTTCACAGCTTAGAA
chr00	CCCAAATCCACCAATAGCCAAATGG	CCAAAAATCTCTCTTGGCTCCTTC
chr00	TGTTGGACAAGGTTACTATGTCAATGGC	CAACTTAGTGCTCCCTCCAATATTTGTAAA
chr00	TGACTCGGACTGTAATGTCAGATACTA	TGACACAACATGCAGTATCTCTTCCC
chr00	TCCCAACATCTCATTTAACTGAAAAGTACAA	CCTATACACACCATTTGGGTGCTTC
chr00	AGTCACATGAACTCGCACCATG	TACAGAGTCCAAGGTAAGCATATAAGTCATT
chr00	CTAAGAACTAATTTCTCACTGTGCTCCAAA	CTACAACAGTAGATCCGGTAAAGAAGACT
chr00	CCCACATGGTCAAGATGAAATAAACAA	TCTTAACTTTTTCCAACGTGTTCGTTTGT
chr00	ACATAAATCACTCCTGAAGACTATGTCAACC	GAATTTCCATTTGTGGATTCATATGAGGC
chr00	AGTCTTGCTCAAGAATAAATGACAAGGAA	TGTACTGCCAACCAATGACATAGACA
chr00	GGGAAATTCAACCATCACTATGCAACC	GTCATTTGACGCCCTTTAAACCAGA
chr00	CCTTCTGCACATCAGAATAAAATTTGGAA	TGTATAAATGTACCCTCCCTCTCAAACAA
chr00	AATAGCTAAGCCAATCCGGAATTAAGATA	TGGCCAAAAGGGTTTTTCCATTTATAAATTA
chr00	TTCTATGTCCTGCATTAATTTACACAAGCTT	AATGCTCAAGAACAAGAAAATTTGGAAACTC
chr00	TTTGAAATTTGAAATAGGAGGGAGGTCTTT	GAACCTCAATTTGTACTGCAATTAATGGTA
chr00	ATGTTCTATGCAACTATCTGTGACTTGTTT	TCCAAGTAAATGCAAAAGCAACTTCTCA
chr00	TCACAAAAGTGGTGATCACTTATCTCCC	CTGGGAGGAACAAAAGTTTGGTTCA
chr00	TGTGTTGACAGTGGAATATTTCAAGTGAC	GTGTTCTTGAGAGATTATGGAAGCAATC
chr00	TGAGATTACTAGGAAAGGAGCTAATGAAGTT	AGTTGTTGGGCATGATACAAAGAAGTG
chr00	ACAGTATAAACTCAGGATTTTCCAGGAAAA	GGTGACAGTATTTTTTCATGCTACCCATG
chr00	CCTTAAATTCGTTTCAGGACCTCACAAA	CCTAAGCATCAAATGGCAATTTTGTAGTTT
chr00	GTCATATCTGCCTTGAAAAGTAGTTGCA	GTATTGGTTACTACAAGCAAGAAAACCTTGTA
chr00	TCAATGATCTCTTAGGTGACATAGATCGATT	TGCAATATTTGGGAATTCATCGTAGTCAC
chr00	AATGCAAGAATTGCATGTTCCAAAATTCA	GGACCAAATTCCTACTCAGTTAAAAAGTGAT
chr00	GGCATAATTTCTATCATACTTGGTTGTTTCA	GTTTTTCAGGCTACTAATGGTGGATCAC

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr00	TTGGTGTTTGTATCCTACATGTAAGCAT	CGTGATCGCACTCTTTCAGTTGTAG
chr00	GTACAAAATGGGAGATGTGATCGAGTC	GAACTCACTTCCTTCTTCATTTGATTGTGA
chr00	TGACTTACTCCCTTTCTTTGTTAGGTAGTT	TGAGGTTGTAAGATAACTTCTAACTAGCCAA
chr00	AAATTGAACCATGTATTCGAACACCTTAAT	TGGGTAAACAACATAAAATTCACTACCGTAG
chr00	TTTAGCCACTCATGTTCTGTAGTAAAGATCT	TGTCACAGCTCTTATCCTCTATAATAAGGGC
chr00	GTAACGTCCTTGATGGACATAACAGACG	CCAAACACACCCACAATCTTTATAATAGCTA
chr00	GGGAACCATACTTCCATTACATCAT	GACTAAGTCATGGCTCCCTTTTTATGTATC
chr00	GCCTTCTGGGCCAAAATCTCAAA	GGGAACAATTCCTTGAGTTGAGGAG
chr00	CCCTATTCCGGGTAAAGTAATTGGAC	GACTTGTGAAGGTAACATTCCGAGTG
chr00	AACCTTTATCAAATAGTGTGAGAGCCAGTTT	TGGAATGCTAGAAAAGAATTTAGCGAAGTAA
chr00	AAGATGAAGACAAAATTTAGTAGGTATCCAACG	ATCTTACTTCATAAATGCCTTAACTTGTTCAT
chr00	CAATGGAGGTAAGACTGACCTCTTCA	TGTTGACCTTATGGCTTGAATGGTAGC
chr00	TGTTTCCATTCTTCACCAAGGTTTCAC	TAGTCAACCATAAAAACATCATCCAAGGTG
chr00	CTCTCAAATGAAAATGGCCCTGTCTAA	CCCATTTTAAATTCATCCAATTACTTCGGTA
chr00	GCACAAATTTCCCTAGATTTCTCTTAGTCAT	CGTATAACAACCATTTGCATTCAAACCTTC
chr00	AATCATGTTTCAATGAATTTTCAAAGCATTG	AAATCATTAATTGAGCCTTTTATTTGTCTTCATGAA
chr00	TAAGCAGCAGAATAGTACAAGATCACCTAA	ATCCCTTGCAAAAGCTAGTCTAAACTTT
chr00	ACATAGATGTTGGGAGGTAGGTCAT	GTTTCATGGTAGCCTAATCATAATAAGCGATA
chr00	TAGAAGGAGGAATTTTGAATGTGGAATTGTG	ACAAATCAAACCTGCAGATGGCTAAC
chr00	TATGGAAAAGATACCTTTCTGAAAAGACGC	TGTTGAGAAACTTAAAGGAAATCACCCAAG
chr00	TTTCCTTAAGTTCCATCCATTGTTTCGAA	AAATGACATAATACGAGCCCTAATCATCCC
chr00	TTTTGAAATTCACCTTTTGAGTTCCAGCTAG	CAAGGATAAGAAGAAGAGGTATCTTTCCACT
chr00	GCAGTAGGTTGAACATAAAAAAGAACAACAA	GATAGTAAGGACTGGGCTCCACTAA
chr00	CCTTGGATCTCCTAAATGAAGAGTTTTTGAA	ACTAGGGTCAACTTTAAATGATTATAACTCGTAG
chr00	ATGGGAAATGTGTATTTATGGCATACTCAA	ACTTAGAGCAATTTACAGGGAAAAAGGAA
chr00	GAGCAGGCAGGTACAAATCAAAATTT	CCAGCTCGCTGCATTGTAAATTTATT
chr00	CTTTGTGTCGGATATTGGTTCTCCAA	TGGCATGCAATAGGGATGCTAAAATC
chr00	CAATGCTTTTGCACGAGTTTCCAA	CATGGTAACAATTAGGCATATGATTGCAGT
chr00	GGACTAGTAACTATGCATGAGCAGTAGC	CCTACAAAATGCTTCAAAATCCAACATCTAT
chr00	TTTAGCTATGTTGAACTTGTGCGAAGCTAC	AGAGCCACCTCTTTATGTTTCATAAACTTTA
chr00	CTATTTGAGTCTCTTTGTAATAGGAGGTGTA	TAGACCCACATCCTAAAAATCTCAAATGGA
chr00	GGCATTTGAAATAGATTCAAGATGTGGTC	TATGCCACACAACCTTGAACCTAATTGAAACT
chr00	CCGTTTTCTATTGCCTATTGTGGTTGT	GTGCTGGAAAATCATTTTTTCCCATGTATATT
chr00	CTATCTGCTCACGCTCACGTAAC	TCGATTTTGAAAGTGCATGTTGAGACA

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr00	CTGCTGAGACCCAACCTCTTTAG	TTTATGTTTCGGTTGGTTACAAATTTTGGAA
chr00	ATTCTCAAATAGAAATTTGCCACACTGTA	CCTATATGGATAGCCAGATGGGAAAAATTTA
chr00	GGGTAGGTTAGCTGGAAC TAGCTA	ACAACACCCATTTTGTGTAGATGCTTATA
chr00	AACCAGGAATTAATTTGTGAATTTCTATGCCA	ACCAAAAGTGAATCAACTTATCTTCTGTGAT
chr00	GGCCTAAAGTCATTTATGACTTGCTAGA	CCACATCATGGGCAATTTTATTTGATATCCG
chr00	TACTCCATTTTCGATATCTTTGCACAAAGAT	TTTTTATTCCTGCAATCCTACTTCAAAATTTATT
chr00	GGTAGTTTGTCTTACCTTTAGAGGATGAGT	CAGAGAGGACATGTAATTGGTCCTACC
chr00	CATGAAAATTCGAATTAGGCCCTTTTCTT	CTCAACCCGATACCGATCCAATTTT
chr00	CATCGCCATACATAGCGTTTAACTAAGG	TCTTTTATTTGTCCCTTCTCTTATGTGCTTA
chr00	TACTGATTTACTTGTGTTCCGGCAAAT	GATGCACAATCAATCGGAGAGAACT
chr00	AAAAACATTTCTTAAGGGACCTAAGAGAACAA	TTTCGAGAAGCAAGTATGCTATTTAAAGGAAC
chr00	TAACCAATTGTACTATCACCCTTGAAAAGGC	GAAAAGTCATCAATGAAGTGATAAACCGTC
chr00	CTATTCTCTATCTCTTTACCCTCGTCAAGAA	AAAAACTATGGGAAAGAGCTATTTCAAAGAGC
chr00	AACTTGGTGTAGTAACGAAAATTTGCAAG	CTAGTTAACTTTGCCTCCAAGTTTCTCTAC
chr00	ATTGTCCTTGCCAACATGCATGT	CATTGTCTTGCAATCCTTTATCATATGTCTG
chr00	CTTTGAAGCTTGCTTTAGTCCATAAAGAA	AGACATGTGGCAGGAGGATATAATAAAAAA
chr00	ATGGGAAAAGAAAACAGTAAAAGGGAACCAT	ATGTGATATTATCCGTGTTGAGCCAAG
chr00	ATGTTTAGAAATAAAAAGCTCATACAAGTAATCGA	GAGTTTAGAGAGAGGTTGGTCTTCTATC
chr00	ATCAAGGCCCATGCCAGAGACAA	CCCAAGACTCATTTACAATCATCCTCTACT
chr00	CCTGGTAAGATAGGAGTTGTTGGGTA	CCCTACAAACTTCAATGACGATCACC
chr00	GTTGGAGAAGCCAAGGGTTTTAGT	ATCCAAAATGACCTTGCATCAAAAAA
chr00	GAGGTTGTGAAACTTCACCCTTTAATTCA	ACATGTACGTTGTCTCAAAGAAAATTCAGTAA
chr00	CTCAACTTAGGCTTGAAGCCTCAC	GAGCTCCCAAGCACTAAAAATTGAAATATG
chr00	CAACAAAAATAGCAAAAAGGGAAGTTTTTCAT	ACTAGGAACCACGATCTTCTCCAA
chr00	TCATGGATGACCTAGAGTTTAAGGATGAC	CACTGATTGAGTGACTACTACTACAAAAGTA
chr00	AGTAGAACGCCACAAAAACCATCTT	CTCCGAAGTTTGTGGATTGAAAAGTCA
chr00	TTGGATTATTCAAATGCAGAGCCCTAAT	GGTCTGTTTTAAGAAAAGGTACACTAAGGAT
chr01	TGAGAATTTGTCTTGGATTATGAAGTGCAA	CTCCCTTCCCATCCAACCTTATAA
chr01	TGAAGTGAGAAAAGAAGACATGTGAAAGAT	CCCAAATTAGTGTCGTAAAGGTGATAAAGG
chr01	GAGTATCGCTCATGAAATGGTAAAGCA	TGAGTCCTACAGTGTTACTGATGCTATTT
chr01	CCCATCTATGATAAGGGTACAGTTACATTT	CCTCGTTGATATTTTCGTAACCACTTCAAG
chr01	ATTTAGGGATTTCAACTGGACTTGCTG	CAGGAGAGAAAGAGAGTACTAAGAGAGTGT
chr01	GTTAGAAATGAAAAATGGGTGCAGGATTT	CCAATTCGCGAGTGACTATTTACGAATATT
chr01	CGTTGACATTAATTGTTATTAGCATCACGTA	CACAACACTTTTACCACACAAACACAC

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr01	TTGATTTCCATGACAAGGAATCACCATAC	AAGATCGATTGGGAGGTTGTTGTAATTAAC
chr01	AAACGCCTTTTGAGTCGATCCTG	GCCTTCACTTTCTTAGTCATGCATAAATACA
chr01	TGTATCCTTTAACGATCAGAAAGTCTGAAGA	TATATCCCGACCCAACTCCAGACTT
chr01	CATTGAATTAGCTCTTGCATGCACAA	ATAAAGAAGAACAACACAAAGCGAACTTTC
chr01	CAAATTTCCACATTCAGGCTGCAAT	GGCATAAAGTGAGCGTGGAGTATCT
chr01	GAATCCTTCGAGTCAATACTTCTCGAG	GCTACCATAAGATGACCACATCATTTGGG
chr01	CCAAGCTATTCAGGGTGGGTTAG	GCTGGTGCATGCCATTATAGGTAAGA
chr01	TGCTAAATCATCAGCCATGTTTAGGAGT	TATTGTTACGTCAGGAGAGTTCTTGAGTC
chr01	TATTCAGACCTCAAATATTTTGGCCTCAAC	CGTATTTTCGCCTTTAATCTCAAAAAGGTACG
chr01	TCTCAAATCATAGGATTTGTTTGTGATTGCA	CCTTGAGCCTGTTCTGGATTCTATTACTAA
chr01	TATGTTCCCTTCCACCCTGTCTTC	TTTTCAACCCACTAACCAAGACGTT
chr01	ATCAAATACTGCACTTCACTAGTGGAAG	CAACGTGTAGTGCTTTGGAAAAATTAGAATT
chr01	CGGACGTAGTGCCACCATTTAGG	TAAGACATGGTTGCTCATGCAGTAGC
chr01	CCCATCTACCTTCTCTACATTTCTTGAC	CCTGTAGGTATGATTGAGGTCATACTGAC
chr01	AAAAATGTAGTGTTTGATGAAGCATCAACAC	TACTTAGTTGCAGTTGTGATGCTTCTTG
chr01	ATGGTATTTCTGAGCGAAGCCAAC	TTAAGGTGCTTGCTGGCCTTTAG
chr01	GAAGGTCTCTTGGAATAACCTCTCTA	AAAGTCATATTTTGCCTTGGACTTTACCA
chr01	GAAATGCAGTATTTAAACCAAAAAAGGGACAC	ATATTGGTATCCAGGTCACATACTCAACTAT
chr01	TATACATACAAGTTCTGCACAGACAACA	TAGATTTCTTTTGACGTGTAGATGGTGTTA
chr01	CAAATAAATTTTGACTCCACAAACATGGGAG	CATTGTCTATTAAGGATCCCACTTGTGAAAA
chr01	TGGCTGTATAGATTGCTGACTTGACA	GGCTACGACTTTTGTACTATTTGTGTAGAAA
chr01	TTCTCTTCATGCAACTAAGGCAC	CAGGTCCCAGTTTATATCAACATAAACCTC
chr01	CCTAATTGCCAACGGAGTACTATGATG	GTTAGGTGTAGCCCTTATGCACTG
chr01	TACAACAACTTGTGCGCAAGGAAACA	GACTCACTGTAAACTCCTATGTGAGAATCA
chr01	CTGCAGAAATTAATGATCCAATTTGCTGC	CAAAGTGATTGGTATAACGTATGCACAATA
chr01	GCGGCAATCATAGAACTCCAAGAA	TCTCTGAACCTCCTTAACCAGCTT
chr01	CATTATTAGTATGGTTCCCGCTATCTTGATG	AAGATGCACAAAGAATACACTCAGTTATCTT
chr01	ATTGAGAAACAAGTTCAGTAGGAGGAATCA	GGAGTTAAATTTGACTAATTTGATGCTGGTG
chr01	TTCTTGTCTAAGTGAAGTTGCTGATCTTTC	ATCTCTTAGGTCACCTTAAGATTTCGTCTG
chr01	GCAGATATGTGTGGTGCCAATCTT	CCCACTTGCTTTTCTAACTATTGTGCA
chr01	GGTATGCTGATGCCACTTAAGCAG	CGGAGATTCCAAGTCTCAACTAGTTTGG
chr01	TGCTCCATATTTAGACCTCATCACA	GAAGCACTCTGTTGACCTAGGAAGC
chr01	CTTCTCACTAGTCATGTAGGGAGCTAA	GTTGCTGTACAATTGCAATGAAGATATGAAA
chr01	TAAGGATAGGAGTGGAAGTATGTTAAGCAG	GATTCAAGACACGACATTTATGTAAGAGTGG

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr01	CATTTTTGGTGGTGTATGTGCACAT	AAGAGACCACATATGTATATTAGTTGTTGTTT
chr01	AGTTTGTGAGTAAAAACCTGCCATGTC	CTTTCTCCACTTCATCACCATGAAATTTTA
chr01	AGTGACACTGAATGGGTGCAAAG	CATTTCTACGAGTATGAGCGCTCTTC
chr01	ATTATACCACCTCTAGGACCTGAACTTTT	AAATTAGGAGGAAGACCTCATTCACAAAAC
chr01	GTCAGGAACTTGGTCCAAAGAACAA	CGACTTCTCATAAAGGTGAGTACTTTATCTT
chr01	CTAAATGTATGATGGTACAAGTATCACCCAA	CCCTCATGTGTCCCAACTAGCTATATAG
chr01	TGACACATTATTTATGCATTGTCTTCCTCTA	AACTAATCACGTGTCTCAATGAGTCATAA
chr01	TAGGCATCTGATAACAGAAAGCTTTAAGGA	GCATGAGGAGCAAGTAAGTCCTG
chr01	TGTTTCAGCCAAGTCTGAAATAGAAATCAA	CGTCTCGAATAATATTTTGAAAATCGCGATA
chr01	CTGTGGCCTCATCAATAAATATAGTTTCCTG	TGTGGATAATTAAAATGGGTTCACAGTGTC
chr01	GACAGATGGGTCTTATCTTTTACAAGAA	CCCAGTGCATGGTCTGATTATTGG
chr01	TTTTTAAAGAGATCGTTCATTGAATATGAGAAGA	GTAAAGTTCTAAAAATGATTAAACGTGCCATAA
chr01	TTTTGAGTTGGGTGCTTTCAATCGA	TATACCATATGAAGTGAGTCCCATCGAAG
chr01	CCAGTGGGAAAATTATTGGTGATCCTA	AGTTGCTTCCTCTGGTGTAATAGTTTTTT
chr01	GGCTAACTAAATTTCAAATATCACGTGGTTA	GCAGCTCCATCAACTTTATAGCATTCCTTT
chr01	GTAAGGTTCTAAATTTGCACTATTTGTGGT	AATCAATCATGGCCAGGATATATTTTTGCC
chr01	GTCTCGTGATGACTCATATTTGGAGTC	CCATATTGAGTGTCAAACCTCAAAAGTCCTA
chr01	TATGCAACATTTCTTAGCGTAGTTGCTAG	AAAAACGATTGCAGTTTGGGTAAATCTT
chr01	AGTTTTCCAAATAGCTTCTTTAATCGAACCA	GCCCTCAGTATATCAGTCTATTTAAGGTTCT
chr01	TAAGTGGCTCAAAAGTCAAATCAGAACAT	CTAGATGGAGAGAACTCGATTAGGAGTT
chr01	CATTTTCCTCCTACACTAGCTGAACAT	CTCAGTTCTTTGATTTCGTTTTGATACTGAAA
chr01	AGGAGAACAAGGAGAGGAGAAAATATCAT	CCTTATAATTAAAGACGCCCATGTATGACCA
chr01	CCGATCTATCCTAAAGGAGTGATCAACA	AATTGCAAATGTTTGAGTTGTATCGATCATA
chr01	CTGCACTCAGAGAATATATTAGTGAACAGAT	GGTGTCTTCATGCTTAACACCGAC
chr01	TAGTTTGGGCACAGTTTTTGCAAGG	CTAGATCTAAAGGGTTTTTGAAGGTCTGTG
chr01	TTTATTTACGAACGTCAAGTTTGCATCATA	ATCAGCCAATGAGGTAGAAGGATAAAATACT
chr01	AATGCCGAGCATATATATGAGGAATCGT	TGGTGATTAGACAAGATATGATGTTGCTTCA
chr01	CTAAATGATTTCACTGGGAATAGAGACTGAG	TATAATGAGCCAATATAGGTGCATTCTTCA
chr01	ATTCTAGGACTACTTATGTAACGATCGACTT	AGCTTTACCACTATAGCAGAATAAATCCCA
chr01	CACTTGTCTTCCCTTTATGCTTTTCCT	ATCACTTATTTAAATATCGAAGAGAAACAAGGAA
chr01	ACAGGCATCTCTAAGACTTTTTTAAGGCC	AGCACCTCTCCTTATTGGTATGAGAG
chr01	ATTGCGTTTTTCATTGATGACCAAAA	CAGCTCAAACAAATGAATATTGACAGAGTGA
chr01	TTTATTTTATTTTCAATCCAATGTGAACCTCAAT	TCTTAACCACCTAATTAAACAATCAAAGACACAAA
chr01	TATCGACAGTTACTAACCTGGTCAGTT	CAACATGTGACCATGTGTAAGGAACA

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr02	ATGCAAGGACACAAAATTAAGTGGTGT	AAAAACCTCTGAATATCATCCCACTAGAACC
chr02	TCAGACTGCTACAATGAAACGTCATTA	GTGAGATAAAAAGATTTGGCATCACCATG
chr02	GCTCCTACAACCTAAGCTTAGTTTTTCC	CTTTATCCATAGGGCCAATTATAGAAGGGT
chr02	TGCAAGCTCTCTTCTTAGTTCCACG	AAAATTCTCTAGTTCCACAGATTGCTTTAC
chr02	GGAAGCAATGGTTAAAGAAAAGTCATAACTT	CTACATTTGCATACGCTTATGAGCAAGT
chr02	CAGTGATTTCCAATTCATCACTGACAACA	GCCTCCTTCCTCTTTGGGTAATTG
chr02	GCAAGTAGTGTTGACTAACATTATGCCA	CCATCAAGAAAATCTTTTTTCGTCAGCTA
chr02	GATCGTGAAATGGCACAATGAATATAAGGT	CGCAAAACATAAGTTACTAACAAGTACCTCA
chr02	CGTGGCACTGCTCTATGTTAAAAAC	CTAAAACCAAGAGAAAGCACAACAAAATCAA
chr02	TAGGGAACATATATAGAACACATGCTCAGTT	GCCTTATAGAAAGTGGGATCAGCTATTTC
chr02	GGAATAACTCTTGTCCGTAACCTACCTCA	TAATTCAGCAAGGAGGGCAAGTTGAGC
chr02	AGCACTGGAAGAGGAAAAATATGATGGA	CCTTCCAAGGCACGTACAATCTG
chr02	TTTTCCACACTCTCTAAGGCATTTATCTCT	GCTTAAAAAGCCAAGGCTAGCCTAG
chr02	AGGATGTGAGTTAGCAACCTAATGTA	CTAGTTAACCACAACCAAGCACATATTCC
chr02	ATGAAAGGGAACTGAAGCACAAAGAA	TAACATGGATGATCCCTTTTGTAATGTCCC
chr02	AATCCCTATTCCTTATTAGGGCTGACTTAT	ATAGTCCACGCAACTCCTAAAAAGATAACT
chr02	ACTTGGTGTGGTTCAGGATACTATAGAT	TTCGACGGCAATGCAAGAGGAATG
chr02	GTGACTGTTACATAATGGGTCATCAT	CTTCTTTACCGATTGAGTTTTCGTATTTGAT
chr02	TTTTTTGGGTAAACGGATAGTTAAAGGTT	TTGATTCCTTATATGAACTCAATCACAAGGTGTA
chr02	TGGCATCGACACCCATAGATAACC	ATCATTTGTTGTCACTCGTTCTGACTC
chr02	GAATAATAATGTGACATGTCCCGTTCCATAC	AACACTGGAGTAGAGGTGAGGTTC
chr02	CACAGGGTAGGTGTTTTTCGATTGA	GGATTTAATTGAAGGGAGTGGTCTCAC
chr02	ACGGACCAGTATCTATTAAGCATTTCGC	TTGGGTAAACATCTCCACACAGAATATTTTC
chr02	CTCTAAAAACCCGAAGCTCCAACCTC	TTGGTGCAACCACTAAAGCACTAT
chr02	GACACAGGTGAATTCAGGGTATGAT	AGCTCTTTCTTTAAACACAATAGACATCTGT
chr02	AGTCTATCTCCGTGTTTGTTCATAAAAGGT	GGATGATCTGATTAACTAATAGCTGACTGAT
chr02	ATGTCTGCCTCTGAAAGAAAGGATTTT	AAATTTGAATGGAACTTTGATGTCCAAGAGA
chr02	CCCAACATATTGACGACTCTAATGTAGGA	TAAGTTGCACATATTGGAGATACCCTAGTG
chr02	AGTGGGTAAATGAGTAAAAACCACAATTGT	TGTTCCCTAAGTCAATATGAACAAAAGAACCA
chr02	CACGTCCGTTGGGCATTTTAAAA	TTGTTTGAATCGTAAAAAGTCAAAGCCTG
chr02	CATCTATCTCAGCTCTTGTAAGTCTTCTTGA	GAAAATTGAAGTGCAAATTAGGATGTTGGC
chr02	CCAGGGCATCTTAAATGCTTTTCTGT	AGCATGTTACATGTGCCTTTGAAATGC
chr02	CCTTCCAGCTATTCTTAAGACCATTTCTT	GCTAGTCAAACATGATCATGTTTCAAGATA
chr02	GCTTCAGTAGTCGATTGTTTGTCAAAGT	TGCCAAATGAACTTGGAATAGCCTC

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr02	AGGTAGCTAATGCCATAGTGCATATTGA	GGATTGTAATCCAATCCATTTTCAATCTGCC
chr02	AGAGAGGTTTACAAGAAAGGTATGCA	CTAAAGCAGGCTTATGGTAATCCAAGAG
chr02	ATTTCCAGTAAGCGTTGACAAGAGAG	CTGTTGTGAATCTTCCTATTGACTTAAGGAT
chr02	CTTTCAAGAAATTAGTGACCTACCTAAGCAA	TTTGAGTCTTAGCCAATATATGCAACAGTC
chr02	GCTAGTGTGTTGCTGGTATTTGTGCG	ATTTGTGAATGAACAAGGCATTTGGAT
chr02	GTTGACTTTAGATAAAGTAAGCCGCTAGAAA	TCAAGAAAAACTTGACAAAATCCAAATGCCTT
chr02	CCTTGTGGAGATAGAGAGGTTGTTTTTC	ATTGACTTCACGTCATTGGACCAC
chr02	GTCTTAAAGTATGCTTTCTTCCTTTGTTGGT	GAGAGATGCATAGACAACAGAAAGGAATAC
chr02	CGAACCTAAATGTCTTGTACTGTTTTGGA	CTACGTACTTGCATTGAGATAGCCAATAA
chr02	CATAAACATTCCTGAGGTTTCTACTCGTA	AGCTACTTAAGATGGAAGTAGGAAGAAGTTA
chr02	GACACACACACTCTCTCACACAC	GAGAAGGATGGATCATGATGAGTAACCT
chr02	GAACGTTTCTTCTTTATCAATCACTTTTCGAC	CGAATCCAGGGCTAGTTCTTCAGA
chr02	AGAAGGGAGCACTAATAGTATAATTAGCTTTCTT	ATTATTAGCTGGTGTGTCAATATGGGAG
chr02	TCACTACCAAGTTAAATGTATTTAGCACGTT	TGTCCGCTACTGCATATGATTATTATTCTGT
chr02	AACTTTGTGCTTCGACATTGATTCTCC	GGTTAGTTACGAGTTGCATTTAGCTAGGA
chr02	TCTTGATATGGTATATCCAATCCCACCAAA	CTGTGTGAGTACGTGCACCTTAT
chr02	TCTGTGTCAGCTGGTAAATAAGTTACTGT	CCCGTCACAAAATCAAACAGAGTACTAATAT
chr02	GTAAGCACTTGAGTTTAAATTACTTGCATCTA	ACACAAATGTGACACATTACAAGCAATTTAA
chr03	CCAAGTAAATTCGCGCACTCTTA	CCAGAAAATTGTACAAGGAAGTTGAAGCA
chr03	TTGTGTCTACAACACGTACTTAACGAAA	AATTCGGGAGAATAGTGACATGTACACA
chr03	ACCCAACTATGCTGGAGCTATGT	CCTACTACCTCCCATCATTACACGTATTTG
chr03	AACTAGCTACTTGACGCTAAACCTAAGT	AACCATGTGTAGCATGTCCTACAATTT
chr03	GGCAATGAAAACGCAAAAGGTGC	GTTTGCTCATTGTCAGGTAAGACAGAT
chr03	AACCATTTGTTACATCCTGCTTTTGCA	CCTAGACCAGTTTGTGCCTAAAAATGC
chr03	TCAGTTGGCAGGATACTCAAATGAAGC	CAGGTCCATATGTGATTATATGGAGAACAAC
chr03	GAGGAGCTGCGGAAACAAATTGG	CCTTCTTGGGTATTTGAAAATGAAGCAATAT
chr03	GATACACATACACCACCACCACTTG	ACCGAGCGCAAAATTAAAACAAAAATCG
chr03	TCACGTGGTGCTTATGATATTATTTATTTGGAT	TCATTTTATATCAATTTACACGCCACTCCAT
chr03	TGAGGTAGAAGCCAGGGATGATG	TAGAGATTACAGGTGATAGCCACATCAC
chr03	TGGTCTCAGTGGATTACTGTCTT	CATTGTTATCACCATTTGGAATCCATATGTT
chr03	AAAATGATCGGCTTCCAATAATATGTACTT	ATCGTCCAAAGGGCAAAAGAAAAGAAGGT
chr03	AGTGTAATTTTAAAGTGGAACAGGGTTTCAG	TGGTTGATCACTTCAAACGAAAGAGTTATT
chr03	CCTCAGTACAACTAAAGAAAAGTTACACCAT	TAGAGGAGGTGTCACTATGATGAGCT
chr03	AGGATGTCACAAGAAATTGTAGACTTCTTT	AATTTAGGAAAGCAACATCACGTTTCAAAG

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr03	TCCATCCATCAAGTGGAACAAAGGC	CTTGTCTCTACCCTTGAGTACCTG
chr03	ACGTACTACGCCTCCATTCCTTAT	GGCTGAACTGATCCAGATCGATTAAAC
chr03	AATTCTGGACGCAAAAATATCATATGTGTA	AATAAATTCACGTTGGCTATGCAATTTGAT
chr03	TGATATTATTGTGCCTTTTATTCCCCTTG	ATTGATAAGAACGGATACTTCGTTTCATCTT
chr03	AAAGGAATAATTCATGTTTGCTTCTCTTCAG	ACCCATAAACTTTAAATGTTGAATCCACCTC
chr03	TGTATGAAAGACATATGGTGAGTATGGGAT	GGGCTACATGCCGTTGATTTCTG
chr03	TTGCAACAGAAGTTATTGATTTTTCTACCGG	CACGATGAGGATTATCTGATTTTGAAAAGGA
chr03	AAAAGAAAGAGGTTAGTTCACAAACTCAGAA	TTGATGGTGAACATAATTGATGAAGATCCAAT
chr03	CAGTGATGATAAGGAGGAGAAGGAAGAT	CCTCCATGCACTATCTCTAATTTACCATAAT
chr03	GTCGACATTGATCGGGCATTTAAT	AACTTCAATCGAATTGCTGATAGCTAGTG
chr03	TGAATGCGAGCTTTTGACTCTGTG	CAAAGATTTTCTCTCTATAGCAGTGCTACTA
chr03	TCAATCACACTGGGACTTGAGGTAG	CGCCATCACGCTTGAGAAGAATTC
chr03	GTGATCCGTCAGTCAATTGTATTCAAATTTT	CTCTATTTCTCAACTTCCTCTCTACTCTT
chr03	CCAAATGGTCAAGCTCCCAAGAT	GGGTTGAGGCTACTTTGGAAGTTCT
chr03	GTTTGGCTCATTGAAATGTATAATAGCTGGG	AGTGTCTTTAATTTTAGGGCTTCGACTTG
chr03	AAATAACCAAGGCATGTTAGGCTATCTTA	GGCATATCTTAAGTAGCTTAGGAGTCATTT
chr03	CACATATTTCAACAAACCCTAAAATCCCAA	CCAGCAGTAACCTTCTGCAAAAATTAATAGG
chr03	ATTACTGGGAACTCAACTTAACAGTTAGAA	CCTTCCCAGCACCTTCAATTCATG
chr03	GGCTTTTCAATCTTTTCTATGCTACATCCA	TTTGTGTGATTACGATGGAGGAGATATTAGCT
chr03	CCTGTAGTATCCAAGAATGGATGTTCCA	AAATAAAGGAAAGTTTAGGCATTGTGTGACT
chr03	ATATGTCTGCCTTAATTGAATTGATTTGGCT	GGTAAATTCACACTGGAAGTCACAATCA
chr03	TCTTGCCAGCTCATCAATTTAGGGC	TGAACCCAAGACCTCTGATTAAGGAA
chr03	CTTCTGATGATTATATCCTCGTGATCCAG	GTGAAGACTCTGAAACGAACATCTCAG
chr03	TGATGTAGCAGGTAAATTTTGGTTAAAGCA	CTTGTGGATTTTTGCTACATTGTGAATGAT
chr03	GGTGGTATCATAAATGACCAAATTTTGGGC	GAACAATGAAGAGAAACCCTTACTTGAATGC
chr03	ACGTAAAGGGCACCTACCTAAG	TCAATTGTCTTGACACTTAGTTTATTTGGGTC
chr03	GTGACCTGATATCATCACAGTTCCCTT	CCCAAACCAATTTTTATCCCTATATCACCAC
chr03	TTTCTCCTTTTGGTCACCCATTCTT	CAAGGGATATGAAGTCAAAGTGGGTTAATAT
chr03	TTTAACCTTGTCCAAAAACCCTACCTT	GGAACACAACCTTCTATAGATGACCCAAAGG
chr03	TGGACTATTTATCCCTGATTTGATTC AACCT	CCCATAAGCAGGGTGGATGTAGAA
chr03	GGAGGAGGACAACATAACACATAACCA	TGTGGGTTTTTCAGAGTTCATTTAGCTT
chr03	CCAGTTTTCGCCTTGAATATGCTC	CGTTGTTTCCTTGTGTTGAGGCTATGG
chr03	TGACAATCTCGACCTTATTGAAAATTTGGAT	ATCACTCGTTCTTCTAGTAGCAAAAAGAAAAG
chr03	TATCGCATGTACAATTGGAAATCGGAG	CCAATCGAAGCAACATGAAACACATATTCAT

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr03	CAGTAATTAATAAGTTGCTCGCTCTCTCAC	GTTCTTCGCCTCTTTTTCTTTCTATAGTTGG
chr03	TGAAGTCCTTCAATTACATTGTTTCTGTCTA	CTATGGCTGGCCAATCATCTCAA
chr03	ACCCGCACGACTAATATTGGTTTG	TTTACCATACCTGAAACCAATAGCTGAGG
chr03	TGCTTTGAATTTGAAAACGTCCATTCTA	GACATTGGTTTTCGATTCCATTGATACTACT
chr03	CTGGGATGTCTGACGTATGCAAA	AAGAAGAACTCTGCCATGCAGTTAC
chr03	TGCAGTGGCTATCACTAGGAAATTCT	ACGGAACATGTACCTTTTGGTGATC
chr03	GCTTGGGTCGTGGTAAGTGACT	CACCAAAATAAGGAGAGTGGAAGAAGATGC
chr03	GCAGTAGTTGAAGTAGTTTAGTAGTGCTC	GATTTTGTACAAAGTAAGCATCGTGTATCCT
chr03	ACTTCCTCTATTCCCAAGAACTGAGTC	GTGTGGCATTAATTTCAATTTCTAGCCTAGT
chr03	TGACATATCTCGTAACGAATGTGACTTCT	TGCTTTGTCTGACTTCATTTTACAACATCA
chr03	CTGCAAGATTTGAGGGATAACATAGGTT	GGAAGCATCTTCAGATCAGGATGAAATCT
chr03	TACCTCACTTTCTCTTCAAAGAAAGAAGGA	TATGTGGGACCTGGTTCCAAAAAGA
chr03	GCAAACCTCATAGGACAATACACAAATAACTA	GGGTTTTCTTCTTGACCGTCATTCTT
chr03	CAGAGAATTGTAGCAGAACAGCAAAATC	AAGTTTGGGCACATTGGTGTTCC
chr03	GCTCCGCTTACTAATCCTTTTACTTATCGC	GTGACTGAATTACAAGATTGAGCACAAAGC
chr03	TTCTAGAAAAACTCCGAGTTTCAGGATGT	TACATCAAAAATTGGAAGCAGCATTGAGG
chr03	TTCCCACTAAAATATTGAGAAGCTTTCCAA	ATGCATGTAACTCATGGTGTGTTTGA
chr03	GGATCGGTATAATGAAGGTCTTTTCTCCT	TCAAGTGATCAGTATCAAATGCCATGAATT
chr03	TTTTTTCATTTATAACGGGACAGAGCAAAA	ACAGTGACTGTTATTTGTCTAGAAGGTTTTG
chr03	CGCGGTGATGATATGCATTTCCC	GTGAAAGCACTCATGCTTATCAGAGC
chr03	GGAATTCCTTGTTTCAATCTTGCCTGTT	TTCTAGTATGTTATGTTCAACCCAACAACAA
chr03	GCCATCAGGGATGAGGAAGTTTG	GATAGGTCTGCATCCTTGTGATAAGAAAA
chr03	GAGGCCCAAGAATGGCTATCAAG	AGGAGGTATGAACGATTAAAAGTGACAGT
chr04	CACAACCTTTGGTGAGCACAATCTCC	ACTTAGTTGGTACTCTTGGGATCGATC
chr04	TATAGATACTCACAACAAGACCCACATCTG	ACAATAAAAACTGTGCTGAGCACTAAACC
chr04	TGGAGGGAAACTAATCATTTTCAATGCTAT	GAGAGCACAGGTAAGGGAAATCTCC
chr04	GTAAAACCTCCACGCACCAACTT	GGGAGGGACCTTCTTCTCTAATCA
chr04	TTTTTTCGCTATAATGACGTCATCAGTAAAAT	TCTAAAGTTTGTAGAAGACGTTTGCCATG
chr04	ACTAAGGGTCTGAGATTGGTGAGTT	GGTGGGACAATTGTTTAGGAAAAGTTAAGT
chr04	GAACAACCTAGTGATTCTCAACCACTT	TCAATAATAAAGTGGGCAAGCGAATCTATA
chr04	TTATTCGCCTCAGTTTATCAGGGTTTTAA	TGATCTCTGGATCTTCCTTACTCGAATTATA
chr04	TTGACAAAGAGTTGGTGCTCCTTT	TCCAAATGACAGGAGTCAACATTCATATTTA
chr04	CAACTTTATTAATGAGTTCCCTAACTAAGCATTTT	CCTCCTACTTCGTTTTTAAATATTTGTCATCGT
chr04	CGACGATCTTCAGGGTAAAAGGACT	CCGAACCTAATAACTTAGTTCAAACCTTTGTA

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr04	TCTAGTTCGCCACTGTATCTGTAAGAT	CGATAGCTCAATGGCACGATGAG
chr04	GCGGACTGAATTCGACCAAAAAT	ATGGATTTGCTAGAAAATGTGTACAGCC
chr04	ACACCAATCAATGGGATGCTCAG	CCTTCAGTAACTTCAGTACCACCAAT
chr04	GGGTAGAAGTCTAGAAGAATTGGTCAAT	AGACAGTCAATCGCTTGACTCTAAGG
chr04	CTTAGAGAGACCTGGTGCCGTATAT	GTGCATTCGTTTTTGTCTTGTACTTGC
chr04	TGTACCTGATTACACTAATAGGTGCATCC	GGAGATGGGATTAGCAGGTAGTAATCTTG
chr04	ACAGCCTGAAAGTAGAGAATCTAAGCA	AACATATCAAGGTCAAACAGCTCTTACATT
chr04	TCTTTCATAGTTCTGTGCACTTGCTT	CCCAAGTTTGGTTACTTAGCAAATCCA
chr04	AACTCATTTGATTTAAGCCCGTGACTAC	CAAAACACAAAATAATTTTAAATGTTCAACCGAC
chr04	ACCACTGCAGTTCAGCAAAAAGTAA	TGCAATCTGATAAAAAATATCGCCTAATGGTA
chr04	TTCCAATCGTTTGATCACTCTATTACAACCTT	CCCAACCGACGATCATATATAGGGTT
chr04	TACTCCGTAAAGAAGTAGTTGACGCTAT	CAGAGACTAATTGGCTGGAACCTAAGAGA
chr04	CCTAAAAAGTAAGAAGCTGCCCATGATT	TTTTTATTTTGGAAATCCTTTGGGAAACTCAT
chr04	CTTCAGTTTGAAGGTGGATGAGGATC	ATCATAGCACCTTGCATGAGATTCAATT
chr04	GCAGCAAAAACAAGAAAAATTTTCTAGTGTT	CATAACGACTCGTTTCCTTTGATAGTGAG
chr04	GGGTCCAAAACATAATGATTTTGATGTCTT	GAGTTTGGAGCAAAAAGTATGACAGAAATTA
chr04	GGTGAGTTTTAGAAATGTTTCGCTTGTTT	GGTTGTAGAGTATCCAAATGTAGCCTAATTA
chr04	CAACACAAAAGACTCTTCAAAAAGAGAAGGA	AATTTGATTAGCATTTCCATTCAATGCCAT
chr04	ATTGTTGTCTTGAGTTGTAAACTCTCCTA	CGCTTCAAATTAGGGATTGATTCACCTGTAA
chr04	CTAAGTCATAAGGAAAAACCATCTAGGAGTC	GTTGACTCAATAGTACGATCGTGTTTAGATA
chr04	TGTTTGTGATTATCATCAACTGTTGCATCA	GAAATTCCACAAAAAGTGGAAGCTGATAATA
chr04	ATTGAGGATAGATGGAAAGTGAAATGAGGA	ATCTCTGCTTACACAGTATCCAAAAGAAAAA
chr04	TCGTGTTCACTATTTATAGGCTTTTCATGTT	TCATGAAAACAGCAAATACCATAAGGGATAA
chr04	ACCCATGCCAATCAGTACGATAATTC	CGCTCAAAATATCTTTGGAATCTCATCAATG
chr04	GGCAAGCGGTTGTATTTCACTCG	CCTTGTCAAACTGAGGTACTTCTGATGA
chr04	CTATAAATTAAACAGTGTGGCGCACTTAT	ACAAAGCAAATATTTAGGAGCCTTGAAAAGT
chr04	GTTACATGGTGTCTACAACATGGATACAA	CTTCCCTTCTTTGGTAGATGAAGTTGATAGT
chr04	GTAGTATAGGGTCTAAGAATAGCTAGCTGTA	AAGATAAGTAAAACCTCACTTTCCAGTGGTTC
chr04	TGTGCTGACTAAGAATGGCATTAGAGT	ACCAAATCTCTGACTCTCAAGATACAACT
chr04	GAAAAGCTACATCCAAGGCTACCATA	CGGTTCTATCTGACTCAGCTAACTCC
chr04	GGGCATTCTTCAGCTTCCAAGTA	CGTCAAACTAGACTATAGTCCCAAAGTCTT
chr04	ACTCATAGACAAAGTGCAATCCCAA	TCACCACTACCAGTTGAAAGTTATGTCTG
chr04	TGACATCTCTATTCTTACCAAATGGTCAAGA	TAACACCTGCCTTCGAATTCCATAAAG
chr04	ACCTCGAGCCCTAAGCTCTAATT	CTTAGCCCCGACAGCCAAAGTATC

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr04	GGAAAACAAAATTCCTTAACATCACAGGAA	CCAGGCTAATTTAGATAAGAGAGCTTTGTTC
chr04	GGGTAAACCCATAAAGAGATTAACTACTGTA	CTATCTTTCTCATCTTGATTCTTGTCTTGCC
chr04	AAGTTCAAGAACAAGGTCTAGATTTTTGT	TTTTTATGCCAAACAAACAAGCCCTAT
chr04	AGGTTGCCTTTGACAGACGAAAG	GAGGAATAGATTTTCACAGGACCAGAAAC
chr04	TATCCTACATGGAAAGATGAGAAGGTTTTGA	CTCTAATGATTCATTCCAACCTCAAGTAGCC
chr04	CCTTCCTATTGGACACACCCAAAC	GTATGCTAGACAAATAAAGATGGACGGAAG
chr04	GTCTCCTCAAATATATCCTCCATCTCAATCT	CCTAAATTAGCAGCTGAAGGTTTTCATGTAT
chr04	TTGAAAAGAAAACATCCTTCCTCTACCAT	CAAAAAGCTGAGGGTTTAGGAATCATGC
chr04	AATGAAGAAGGTGTCAATTACTTGATTTGA	ATTCATGAATTTCTAATCCTAAATTCGCCTC
chr04	TTTCAATATCAAACCTCAAAGTCGTGCAAAA	CACTTGGATGACATGGCAAAATGGC
chr04	GCTCTGATATCGATTGTTGGCTAAGTT	AAAAATTTGGACGTGTGAAAAAGAAATCCA
chr04	ACTATGAGGGACAAAAAGTCATAACATTGAC	TCCTTCTTCATACTTCCCTATTCATCACTAT
chr05	CATCACTTTTCTTTTAATATGCATGGACAA	CAGACACCAGTCAGCAATAATTATAAACCTA
chr05	GATTCCCAAAATGATGTAGCTTTGATGTT	TGAGTCCTACAAACACCATCAATGTA
chr05	TTTGAGGATGCGTATCTAAACACTTTAAGTC	TGCTTAATTTATGTGTGGTTGCTTTCAAAC
chr05	AAAATCGCGATCCAATTTCTTAAATGGA	CCCTTCCTTTTCTTTAGATACTCGCTG
chr05	AAATGAACATCCAAAGGAGTGTACAATTATA	TGCACTCTTTTCAAAAACCTTTTAAAGAGGTT
chr05	AGGACATTGTTGATGAACCTCAATAAACTGAT	GAGTAGGTCTAGCAGAGACAAAAGGG
chr05	ACTCTACCCGCTCCAATTTATTAACAAA	GAGATGTAGCAACCCATTTCCCTG
chr05	TTTTTACTTCTGTTGGATTCTCCCTATCTC	TCATTGTACCTTGAAAGATGAATGAAGT
chr05	TTTCTGCAGGAGAGATCCATTCATGA	GCAACAATGAAGTAAATTAGCAACACAGAC
chr05	TGACAAGTTAGTATAATTGTCGATGCACAT	CATCATTAATCCAAGCCTGCATTGA
chr05	GTGAGAAATGAAAATAGTTTGCATGGTGTC	CTCCACTTCTACTCTTGCTGAACAAAA
chr05	GCCACTCTCACTATTATAAGTACTGGGTAG	CGGCAACAAATGTTATTCGTATAAGAGTGA
chr05	TATCTTGTGCATTATTGGTTCAATTTGAAGCT	TCATATTGTTGCGTTGTAATAGACGTAGTA
chr05	TGTTAGAGGTAGATCACTAGGCATCACG	GCACTCATATGTAACATTAAGAACTAGTAGCAAAA
chr05	ACTACCATAGATGAGGAGGGTGTAAGC	CCCACATAACCATAAGTTTCTAAACCAAAGT
chr05	TCAAGGCATAACTAGGAACCCACTAA	AGTTTAAATGGGTGAGTTTGGTAATTTCTTA
chr05	TCAAAAGAAAATCACTTCTAACACCAGGTAG	AAACGGTGCAATATACAACAACATTTAGGG
chr05	GCATAGGAATTCCATATTAGGGTAAATGCT	CATCCAGTAGGTGGTTCAACGAG
chr05	TGGTTGGGACCTCTAATAGGTCTTATCT	TTTTGGTTTTTGCTGTGTATATGGGACTAA
chr05	GAAAATTAGGAGAGAGGTGGCTATATACGT	TGGCTATCGCATTTTTTGAGCCTT
chr05	CGAAAACATATTTTCCCTTGTTTTAACGCT	TTCTTCTGGACATGTCAAAGTAACTAGCA
chr05	ACATCATGAGTTGGGATGTGTGAAG	TAGGTCCAGGTAGTGTTCAGCTG

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr05	AATAGTCTTCTTGGCCTTACTTTGCAA	GTAAGGACAATATGGTAGATGATGCACTAAT
chr05	GTTTCATGTTTGCATCGTCTGTCTAG	GGTAGAGACGTGAAGCTGATCATCG
chr05	GGTTAAGTGAGGGTGGGATGATTTA	GGAAAGTTTGGGATGGAAAATAAGTTAAGCA
chr05	GCCATAATTAGACCCTGATGTTGTTGAG	TCTCTTGATCAAGACTTGGACAACACC
chr05	CAGTTAGATGAATCTTAGGACATGGACAT	TACCTTATTCTGCGTACAAAAAGCCTC
chr05	ACTCCCAAAGCCTTGGTTTTATTTTGA	ACCAAAAAATACCATGTCAAATCCTAGTGTA
chr05	TGCTCCACAATAAGGCACTATTGG	CAACTGTATTAAACATTAGGGTTAGTCAGGTA
chr05	ACGAATCGAGTCACAAATATATAGCCAAAT	GTACCTTCTATCAGCTAGCCAATGTCTG
chr05	AGCACTAAAGAAGAAATAAACCTTGTCAGAG	CCATGCCACGAGCTACTACTACA
chr05	CACTTTGATACACAACTAATCACCATCAAA	CCATGGCTAGGGCTCTATTAGAGGC
chr05	TCAATTATCCTGATTTTCCTAACAAGCCTC	CATGACCTTGTTTTTGGGTCATGATGG
chr05	CTTTCATTTGCCAAATTCATTGAACCAA	GTTGATTTTGACTTTTGGGTTTGCTTGT
chr05	GAAC TCCCAAATGTTGATCAATTTATCAGGA	GATAGACATGGTGTGTAGTGGGTATG
chr05	GGGATTAGCTTACCTTTTTGTAGATTGTGC	TAACCTAACTTAAGGAAGAACCTACCCAAAT
chr05	GATAGCTCTCAAAATGATGACAAAGAAACCT	AGGCCTATTCTCTCAACAATCATATTTACAAT
chr05	AGGCAAAAATCACTATCGCAGGTAT	TGCAACACTGATTGTGATCATGGTG
chr05	TGTTATATTTGTAGTGCTATTGGGCACTTT	TGGTCTTGGCTAGAAAGGCATAATAATAAGA
chr05	GAGTGGAATTCCCTACCCTCAAAACAC	ACCCACAAGATCAACCAAGAATTGTAG
chr05	GAGTTTATGATTGCTTGTGAGGATACGAT	CCTATTCATAGGTGGATCAACACTTTAGATA
chr05	TGGTTACCTTGGATCAGCGTCTAT	TCGATTCAAGCATGTACTGAATACAACCTG
chr05	CCTACACCACAGAAGAAGGGTTTC	AGCAGCAATGGATTTTTACAAAAAGTAGTTT
chr05	TACGAGTGACTCTACGTCACATAAACTC	TGTTGTCCTAAAGTTTCTGTTGTGACTA
chr05	TCCGAAGGATCATTTGAATCCTTGTATGA	CAAGAATCTCAAAAATCGACCGACAAATTAT
chr05	GGAGGAAGCTATTCAAATTTGGATCGAA	GCCATGCTATCCATTGTTTCTTAAGTTTCT
chr05	CAGTGATAGTTCCACTTTGCTTTGGG	GAAGCAACTGACCAAGCCCTATC
chr05	GCTAGCTAAGTCAACTCTATCCTAAACTCT	GATGTTGATACAACTAAGGTGCCATAAAATA
chr05	AAAAAGGTAAATGTCGTTGGTTCTAAGGT	TTGTAATTATCCTTTCTGTTTCAGTCACCAC
chr05	GGGAAGTGATAAGAGGATGTATCTATAGGAT	GGGACAATCTCCAGAGAAATGACCA
chr05	CATAGAAATGGTTCTTGGATTGACTACCAT	GCATCAGGTTATATGTCTTGAGGTAGTGT
chr05	GGTTCATCTAAACCTCGCCTACTTT	GGGAGCTTGAGAGAAAATCACTAGATTCT
chr05	AGAAACGCGTTACTCTAGCTTACGA	CTAAAATGTCACTTGGCCTCTTAAGCA
chr05	GTAACATCACTCAGATAAAAACTGTTGCAAA	CATATACCCTCTTTTGTTTTCTACTCTCTA
chr05	TGTTAAGATGAGGAAGTAGTCTTCTCTTGAG	GGAGCGAATTTTGTAAATTGTTGTTGTGG
chr05	TCTGTTCAATTGACTGTTACTTTTCAGGATCT	TCTGAACAAGTTTCATCTCGAAGAAGAATTA

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr05	CCAGCCTCAGTTTCAAATCTAATCCT	CTCGTGTTCGTCAGCCTTTAACC
chr05	AGATAAGAATGAGAAGATGCCTTAGCTAGAG	CAGCCCTAAAGTAGGAATACCATAACCA
chr05	AAATATTGAGTTTCAGGGAGAAAGATGGTG	CTTCAGAGTGTTCCTTGACACATCTACA
chr05	GCCTAGATATTTCAACGCAAAAAGATGTA	GCTATCTCATGGTTTCATGAGGTGTG
chr05	TTTCATACGGTGGAGCTCAAAGTC	CATCTGAAAAGGGTTCAACTGAATTCCC
chr05	GAACAATCAGTAGGTTTATTCCTTGGTC	CTGCTTTTGCTTCTTACATGGATGTA AAC
chr05	AAGAGAGACAAAAGTGAGTTTTTGCAAGA	ACTCAAATTCCAATACCTCTACAAAACCAT
chr05	GAGCATAACTCCATAGCCCTTTCAT	AATTTGGACTCACGGGTAAAAATTTT TAGAA
chr05	GTATTTATCCAGTTGAGGCCTTCTTGAT	CACCTTCTTATCTATACGCCATTTCTACTTT
chr05	GTCTTTTAGGCTATTTAGATGGCAAAGACG	ACCTCTCCTGACAGTCAATCAAACT
chr05	CCCAACATAATACTTGTGAAGGCAGTTG	GGTGTCCCTGGTGTGACACAATTTTATAAG
chr05	GTCGAAATGTGTTTTAAGGAGAAAAGCTC	CCTGTTACTCATAGCATTACTGGTTTGAGC
chr05	ACCACTTCTACGAGTCGTCCTA	ATGGTTGGATCGGGAGAAAAGTAATAAATC
chr05	TGAGGACTTGTGGATCCTGCTAA	CCCTTGCGATGAAGGAGTTGAATC
chr05	CTGGGAGCTAAGATTTGAATTGATGCA	GAAAGAATGCAAGTAGGATTCGATCAGC
chr05	CAATGCATATGATTTTCTCGAAGAAGCTA	TTTTCTCTAAAAGGGAACCAAACCAA
chr05	AGCACGTGAACACCACATGTATT	AATGGTGCCTTGAGAACCAAATTTCA
chr06	CAACAAAACCTCTACCATTGGTGATTGTTC	ACAAAAGCTATTGTCTCAACAGGTAA AAC
chr06	TGAGTTAAAAGCAACTTGGTGGCATAT	AAATGGTTTGGCTGGCAAATGATTT
chr06	GGCGTCGGTTTGTGTATGTAT	GCTGACCTAAATTGTCCGGTCAAC
chr06	TTTGTAACCTGAAGCAGTAATGTCTTCAA	GCGTTTCAATGAAAAGTTCTCTATTTCTTCAC
chr06	CAACTACAATGTTGTTGCTTTAGGAGAAAA	ACTCAATGGAAGTTTAAATCATACTCGGTA
chr06	CTACAACAATGCTCTCCATTATAATTGACGA	CAGGTAAACTCCTGCAGAAACAGAT
chr06	AAAAAGGCTAAGGACGCTAGCAT	GGTCTACATAATCCATTCAAATCACCAGAAA
chr06	CACCCTCTCGTTGTCCGTTTTAC	TGGTTTGTGTTGCATGATTTAGGCT
chr06	CCAGTAACCCGAGGATCATCCAT	CCACATTGGAAACTCCAACCTTTGTGC
chr06	TTGACTTATATACACCGGAAGTGTA AACACT	ATTAAACCTGCCATGTACTATGTTTATGCT
chr06	AATGAATTTTCTTTTCAGATGCTTTTGACACT	TGACTCGACAACTCAAACCTTGAAACTAGT
chr06	ACTCCAACCTACCAGAGTGACATGAC	ACATGATCTAGAAAGAGAGGTTTGGAGATTA
chr06	CATAAGCAGCAAAGAATCATGCTAATCAT	GAAGTGATAAAAAGTTGCATGTTGTAGTT CAT
chr06	GGCAATGGTTATTCAAGGGTTGACTA	TGGAAGCTTGGTAGTGAAAAATACTCATTA
chr06	TCACCACTCTTTCAACAACAACCTCTT	CAGTGCTGAAGATAAAGAGATTGCCTATATT
chr06	CATGCATGACTATTCTCCACATTATGT	GATGTTTACGTGTACAGCATAGTAGTACTAT
chr06	GGCACACCCAATGAGACCAATTC	AAGATTTCCCGCAGGGATTGTAGT

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr06	TATCAACATCTATACACCACCAATCATTTTCCT	GGAAAGTAAAGGTTTATTTTCAAGAAATGAGATT
chr06	GAGTAGATTATCGAATTGGGCACGAATTAG	TCACACACAAGTTTCTTGATGTTGCT
chr06	GCGAATGCTGACATGGAATAGTTT	GATCACAATATGCCAACATTCAAAGAAATA
chr06	TACTGTTTCACCAGCATCATGATTGAC	TCGAAGCTATTCACATGGTGCAAG
chr06	GTTGGATAGGTGCCTATGCGATC	AGTGAGATACCAATTGGGACTAATTAAACCC
chr06	ACTAAGAAAAGACCTTATCTAGACCCACAAT	TCAATGCTATGTCAAGGGTTTGATTATGATC
chr06	TATATGTTTAGCACCTCAGTCAGTTCCTAC	GTCTTCATTTGCTCATCTACATAGTGGTC
chr06	CTTCAACTACTATACCACTTGAAAGCAAACCT	TATATTGGAAATGAAGCTACCGGAGAATGT
chr06	CCAATCTTACAGATCGGACAAGAAAGTT	CTTCATCCTCTCCCTGTACAAAGTCG
chr06	TGGTGCTCAATACTGGGAATACAATCT	CTCCTCCTGCTTGACATCTATTGAGG
chr06	GAACGAATTCOAAGGATTTGTTTGGAG	TTGTCCTTCGGTTTTGCGTCTAG
chr06	GGTAGCTAAACTAGTATGATGTCCAAATGTT	AGTTTTGGGTCACAATAGGAGAAAAGGG
chr06	GAGAATTCCTACGTAGCTTGTCATTTGGAG	AATAATTTTGCCATCCATTAGGAGTGAG
chr06	CCATGTGGTTCAACCGCTAAAGT	GTAGAACTTATCCAAAAACCCCTTATCCCAT
chr06	ATGGTCGACTGGTTTAGGCTTTA	AGTAGGGAAAATTTAAGGCTAAGAACCTTGA
chr06	ATAAGCAAGGTGCACCTGAATATGTA	CGACATTGGTTGCCATCCTCATG
chr06	CCTCTTCCTTGGAACAGGAGGATT	TGAAGATCGTCTAGTGGTGATTGTCTC
chr06	AGGTTTTTACCATCAAATAGTGATGATTCAC	TTCAGTATCTCAATACTTCCCAACATGTTCCG
chr06	TTCTCAGTCCACATGTATCAACCTTCC	TTTTCTTTAGTTCTGGTGATTTTGGCTTGT
chr06	GAGGGAGGGCAATCAAGTTGTAG	ATGTTTCCTTTATGCATCTGGCGTATAC
chr06	GATGAAGAACCCTGCTACTAATATAGGCA	ACTAAGGTAGATGAGGATCAACGATTCTT
chr06	GTCCAACTGATATTGAGAGCACTCTC	GAGTGGAGTTCTTATCAGATCTTGTAAGT
chr06	ATTTTAAGAGAGGCAGAAAGATGTTCTTGAG	ATCTTTGGGAGTTACCAAAGAGAATATTTT
chr06	TCAGTACCAAGATGTACTGAGTTTTACAAA	TTACACCAGAAGATAAGGCAGAAACAGAAGC
chr06	AACCAAGAAAATAGAAAATCGAAAAGCCAAA	ATAAGTGAAACTTGTTGTATGATGAAGGGTA
chr06	ATTTGACGGTTGTCAGGTATGCTA	GGGAACCTCCCTTACCATTTAATTATGAGTTC
chr06	CTTGTTTCCTTGTTGTGACCAAAGAT	TCTAATTCCTTTCCCTGCAACTAAATCCCC
chr06	GAAGCACCTCAAAAAGATGTAATGGC	TGCTCTTATGTGCAAATATGACTCACAATAA
chr06	CTTCACATAGGGCTTTACCTCGAC	GCATATTCCTAGCTACTCAAACCTAAGGGAA
chr06	GATGATACATCAGTTGCAACCTATAAGGAT	AGAGAAAGACCCACTAAAATTTCCAACAT
chr06	ATAACCTCAAACGGGACTATGAATTTGTA	GAAGTGGGTAGCTTAGTGGTATGGT
chr06	CTACACCAATTACATGTTTAGTGGTTTTGATG	TTTCTTTGCACAAGTTATTGTTGGTGTG
chr06	AGTTCTAGACAAAGAACTGCAGATGAAAGC	TGGCTGCTTGAATTGATGCTTGG
chr06	AGTTTGGCTACAACAAACAAAGTTTCATGC	AGTTAGCCAGGTCCTTGATCAAACCT

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr06	GTTACATAAGGTTAAGGACGGTCTGTTT	GAGGAGATCGATCATTGAACTTGTTTTATCT
chr06	ACACATTAGTAAGTGGTGCCACAAT	GACCGAGAACATGGTACATGCAG
chr06	TGGCACGAAAAGAAGAATATAAGATAGGACA	TGGAACATATTCAGTTTGCTCCTCAAAATATCT
chr06	AACAAGATTGCATGTTTAAAGCATGACAC	CTGAAAAGAGGTCATGAAGAAATTCAGAAAT
chr06	TCCTAGTAATTTATTTCCACCCAGTGTTC	AATCCTTTAGAGGCCAAATGGTTATGGATG
chr06	CCCATCCAGAATCTGGAAAAACATCA	GGAGTGAAATAGGATTTGATGAAATGGAGAA
chr06	ATCCATTTGATGTATATGCCAATGCTTTGC	ATGATGGAAGAGATCATTGCATTAGAACAC
chr06	CCCTCAAGAATACTCAAAAGATTTCAAAATCC	AAAAATAGTGGGTATGCGATACAAGGG
chr06	AATAGCAACCAAGCCCAATCAGAC	GTATCCATTGGCTTTTTGCCAAAAAGG
chr06	ATCTGTGATTAATTGATGAGAGGGCATTT	TGAGATTTTAGGCACGTACTCCTTTAACC
chr06	TGACTTTTTCTCTTTTGAGGGTGATAAGG	CAAGTGGCGGTCTTAATATAACCCAA
chr06	TTGTTCAAAAGTGTAGAATGCCAAAAATGAG	AGTACACAAACTGGAAGACACTACACA
chr06	TTGAACTGAAAACCCTTTCTTATTCCTC	CTTGAGACTCAAACTTTTCTAGGTAACCAAC
chr06	TTTTTCAATTTCAACTAAATGTTGTTTAAACGTC	GGTCCTTAGTGCTATCTTGTTAAATAGAAGATCA
chr06	CATAGTTCGATCACTCTACTACTCAATTCCC	TCATTTGCATCATGATTTGTATAGGGTTCAT
chr06	ATAGAAATGTTGTGACGTTTGAGGCTAT	AAAAGAAGAGAGAAGCCTTTATGTGAAGAAA
chr06	AGTGTTCCTGAGCTCCCTGTATG	GATCGACTTAGGTAGGTCAACAGATAAAGA
chr06	GTGGAACGAATATGCGATAGAAAATCCC	ACTGCTTATTAGACGTTCCTTAAATCAGA
chr06	CAGATAAAGCCAATTAAGACTACACGGAAT	GAAAGCAGTATCGTGATTTCAATTTGGTTG
chr07	GGACTAAAATATTACGGTTTTGCAGGATTA	ACGAAAGCATATATGGTGCATCTCAG
chr07	GTACAATATGGAAATTTCCACAACCATGAAG	CGGTTTCAGAGGATTTGGATGAAGAGT
chr07	GCATTGCTTCCACTTAGCTGGAT	TGTCTCCACCAGTGAAACTAATAAAGAAAA
chr07	GATCAGCTTTCGCACATCCAATT	TTTTTGGTTGTGTTAAAGGTGTGCAA
chr07	ATCGTTGCTGTTATGTGATCAGGAG	TAAGGTTTCCTCCTAATTGAAAATCTTGCAA
chr07	GAAATAAGCTTGGCCAAACAGGAAAT	GCAAAGTACTGGTGTAGACCTCAATTGG
chr07	CTTGCAGCTAGATCATAGTTAAATCTGTCAA	GCAGCCCACAATTGCCATAATAAAAAAC
chr07	CATTTGTCCAAGCAAACCTCCAAC	GCGTGTGAGTAGTCATGTTGCAA
chr07	GGTAGAAATTTTTCTTGCTGGACTAGGAA	TCTTGCTAACAGCGCAGAACATC
chr07	TCATACCTAGGGCTTAAAAGAGAAGGAG	GTGTGCAATGGTTGCACCATATTTT
chr07	TGATTTGAGCTCAAGAGAAGAAAATAGAGGC	CCAAGTAATGATCCAGTGATTTTCAGGATTT
chr07	TAGGCTGATGGTGGGATGATAATGATAT	TGAGATTGTACTACTGCGAAACACTAATTTT
chr07	CTAGCTCAAGTGGTTAGGATTAGGTAAGA	GTGTCATTACATAAACCATAAGTCTCAGGAG
chr07	TTACTTAAGGGTGACGACTTGAATGACT	TTGGATAGCCAAAAGACCCAACAAA
chr07	GTTTACACTGTTAAGTGCCCTATATTGGTT	GATTGCAATAGACAAAATGAGGAGAAAAACA

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr07	TAGCTTTGGTCCTCATTCTGTTTCCA	TCCTGAAAGATAACAGAAGAGTAAAAGGCT
chr07	GATGATTTCCACATAGAGAATAACCGTGAT	TCGTCTGAGGTCTCAAGGACTAAAG
chr07	AGACATTAGGGTGAACCTTCCCATAT	AGGTGCCTTTCTAACTTGAGTGACC
chr07	GCTATATTTGCAACCCTGTTCACTTTT	CCATTTATTTCCACAGTAGGGTGGATG
chr07	GGGATACTTGCTTTCTAAGCAACCAT	GGGTCATTGATAGGGTAATTTTAGTGGTCA
chr07	GGCACTTATCCCACTATGATAAGCC	CCACTTACTCTTAGAATCGGATGCAG
chr07	CTGATGTTTCGTCGAACTCAGCTAG	GTCAGATTGACAAGATTGATATGCCACTAG
chr07	TCGTGAATAAAAAGAGTTCAATTGACAATTCAAG	AATGATGTGAAATTTACATCTAATCAATTGCAA
chr07	CCTCGAATATCTCTGATGGTGTGTT	TACCCTTCATGGTGACAATCTTTTTCTTA
chr07	TCTGTTTCATGCGTTCCTGATGGTT	CCAAACGTAAAAATGTTGTAAAGTATGCAGTA
chr07	GAGGAAAGTTGGATGAAGACTAGTTAATCAT	GTGAAAGCCAACAATTAAACAGCATAACA
chr07	CTCTGTTTGGGCATAGAGACCATT	CAAGAATTTAGGTGCATTTAAATGGCAAATT
chr07	CCCTCCATGTGCATATACATTAAGAAGAT	ATTTATCATCCGAACACCTGCTTCTTG
chr07	ACTTCAGTACTTGATGATTGTCTTTGGATTT	AGAAATTATCATGCTCGTGATTCTTCATCTA
chr07	AGTTGAGGCCTCTAGATGTGCATAC	GCTTTTATTAAGGATGTGTTTGCCATCAAAG
chr07	TCTTTGCATGATATCAAGCAGTTCAGAA	CATAATGAAAAGATGCAACACTAAGAAGCAT
chr07	TGCTAATCGCTCAGTATTTTAGCGTC	TTTAAATACACGTGGCATCATACATCTCAT
chr07	AACATATCACTCCATGCACACACTC	TCAACTAGCAGACCACCTATCGTG
chr07	GAGAATGTGAGTATACTTTGAGCGGAAG	ATTTGAGACACTAGATAAGTGGACTGTAGAA
chr07	CGTATCTTATGGGTCTATTTTCACGCTC	ACTTCTGTATCACAATTTACGTAGCACAG
chr07	TTTCCACTTTGTTTGAAATTTGAATGGAGAT	GACACCAAACAGAGTTCTAGCGAAG
chr07	GGGCCATGAATCAGATTTTGTAGCG	TAGGTATTCAGCAACTTGAAACCAAGAAC
chr07	ACCCTTTTATAGAGACTTAAATTAAAGACCCAT	AGTGGATAATAATCACTAGTCCACTTAAATTTTG
chr07	GCGTGTTAAGCGTTCTTCTAGATACT	TTTTGCCTTGAAAATATGAGTTCAGAATGGA
chr07	CAAAAGTCTAAATTAGCACACAACTGCTA	ATGTAAGGTTAGGTGGGAAGCTTAAAGT
chr08	GAAGCAACAATAAATTGATGAGGTCCATT	GGCACATGTAAGCTTACTAAAATGTATTCCA
chr08	GGTGAGGTGGTATGTGAGAGACC	AATCATGGGTTCATGTCCTGATTAATGAGC
chr08	CCCATCCTACCCTCCAAAAAGAA	GGGAGAGTTGGTAGGGAGTTG
chr08	CTCAACTCGATCCAGTAATACCACACA	AGTGTTTTTTCGGTTTCTTATGTTGCTAAAAA
chr08	GGTATACGTCAGTGTATGCCTAACATCA	TGCCTCTGGAGTTAAATATTGAACATCAATA
chr08	CTGGCTTGCAAGAAGAAACCAAT	TGTGACAGATGCAATTGAATTTTCTCTG
chr08	CAATACCTACATCAACTCCATGTGCAT	CTGAGATCAATGACAGAGCATTTGGG
chr08	CTAACATTGCCATTGAGTCCAAAAACAA	CTTAAGCAACCGAGGTTGACATCG
chr08	CGATACCAAACAAAATCGAGATGATGAGA	AGCAACGGACAAAATTTTCATAGCTAAACA

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr08	GAGGAAGCTAAGAAAGTTGTATTAGACTCGA	AATAGTCCGTAGGGAAAACCTGGTAGTAG
chr08	GAATAACATGAACAAAGAGATGGAAACCTTT	TGGTTCTTACTGACAGGAAATGAGCA
chr08	GGCTATTGTGGGCCTTGTTCCTTA	AACAAACTTGATGCATACTATGATCCAGTT
chr08	TTTTACTACTTTTGGTTTACCCAAAGCCTATC	CTAAAGCAGATCATTTTGGTTTTGAAGGATA
chr08	TCATCTTGTACTGGAAATGTCTCGAAAGA	GATTTGGACTGTATCATTTCTCTCTTTCCCTAA
chr08	TTTTCAGGTTGGGATCTGTAAACACTTA	TGAATATTGCTCACTCATCACCTCATTTA
chr08	AGCTTTGAGCGTGTA AAAATTTGTTTACAT	GGTAATTTTTATGGAGTCATGAGTTGGGAAA
chr08	TAGCATTTCTTGACATAGTTAACCCAAAGTTA	GATCAAAACGAAGAAATTACCTTGGAGTTGC
chr08	TTGATATTTTCAGAGGCCTCACTGTTG	TAAAGGCATTCTTGGTATTTCCAGAAAA
chr08	TACTGTGGAAACATTTATTTTGGGACTCAG	GCTAAGACATGGGCTTCAGAATGACC
chr08	TGCTGAATAAAAAGGTGGAATAGCGAA	GTGAGAAAACCTTTAGACTCAAATCGTGAT
chr08	CTTTCTTATGCAGGAAAACCTAGCTGTAAAGA	GAGATAATTCCAAGTGAGTGAAAAGGAAACA
chr08	TTAGTATCTTTTTGCAGCCTTCCATA	CCAAATGAGCTTCGACACATAAATTATCCA
chr08	CAGGAAGGAAAGAGCTGAAGATAAAAAGC	TACTTGCACCATTTTGTTTAGACCAGTG
chr08	CTTGGAATAAAGAAAGAGGACCTGAAA	ATAAACTGTCGGTGGGCTAAAACAA
chr08	CGTTTCTTCAGAATATGTCGAAACTAGTCT	ACATGCCGTTACTGTGTAAGACAGA
chr08	ACTGTTTTCTCTATTTCAATTCTCACCTTTT	CATATACACTGGCACACAATTCAGTGT
chr09	GTGCCCTAATTTTGATTGTCTAGAAGAAATA	CATTGCTCAACCTGAAAGGCATCA
chr09	CCGCTTCCAATTTTTGGAATAACAGTC	GAAAACAAAGTAGTTGCACACACTTGG
chr09	ATTAATGTCTTGCCACCTGTGACAA	ATCCACTAATTGGTTATGGGCATAAAGTTAA
chr09	CAGTGACGTATACAAGATTTTATGCAAGTAATGT	TGACCTTACAACCTTTCGTGTTCTCTAAAAAA
chr09	GGAATGAGCCAGTGCTTGACAAG	CAACCGATAGACTTCCATTATAATGCGC
chr09	GGGCCTACTAAATGAAAATTGGGAATTTG	CTAAGGTACCAACTCCTTGCTAGTTTCC
chr09	CTTTATTGTAAAGGCGTCGTTCTTCTTTC	TTGAAATCTGAGAAAACAGAAAGCCAACC
chr09	TCAACCATAATATAGATGCATGTCTTTGCTA	GGGCCTGAACCGATTTTGATTTAGG
chr09	AGATGTAGTAACACATTCATACACACACTT	TTCAACTCTCGATTTTCGCTACTATTTCTTT
chr09	CGCTGCACCTGGTCCAATAAAATAT	TCTGGGATATAGACAAGACGGATACCTATAC
chr09	TCAAGGTAAAGGCTCCAAGGTCATAT	TGCTTCCTTCCTTAAATTAGAATCAAGGTTC
chr09	ACCAATTGCTTTATAAATTCCTTTGGTCAC	AATCTATGTAGAAACATAGCCCAAACAAGTA
chr09	TGGAGAGTGTGACCTACAGCTTA	CCAAGTCGTCGCCTCTAAACAGT
chr09	GATGGATCTTGCTAGAAAACCCAA	GTGGAGGTTGCCTTTATGTAGAATATGAATA
chr09	GCATCAAGAACCGCAACTTGAAC	TGAGGTATCACCGAAAACATCACTGA
chr09	AGAGACGAACCATGTAGCGAATGT	GCCAGAAAAAGGTAGATAAAGAGGAAGAAT
chr09	GGTCTTGGGTCCGTGATTCTTGAT	CCATGATTTCAACTTATCCCTTTTACACAAG

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr09	TCACCAATAGAGGTTGAATTTCTCAAAC	GAGGTTGAACAAAGAAGGTAACATGTTCA
chr09	GGACTCAGGCTAAGCATACCAAG	AAAACATGGATCCCAGTGTATACACCC
chr09	AGATTTTCTAGTAGAGGTTCCCATGGTTA	TAAGATCCCAGTGTAGTGGATCCATATACA
chr09	GGGAAAGACAGGCTAAATTCTACCCA	AATATGGAAGCATTCAGAGGTTTCTCAAA
chr09	AAAAACTACACAAATACATACAGAACTTAGGGC	TTAAGTAATCGGATTTACTTTAATGTTGGTTTCA
chr09	GACAAATTAAATGATGTCACCTTGACGCATT	TGTTAGTATGATGAGGTGAGGGATAAGATTA
chr09	CCAAAGATGTGTTCCAAGGAATATTGGA	CCTAAGGAGAGTTTAAAGCAGAAGTCAAGG
chr09	GGGCCTTTAGGTTCTTGAAAAGTGAA	CATTTTCGAGAACTTGAAAGCTCTAATCTA
chr09	ACGTAATTGGGCCAACAAATTGAAAAAA	GTACTGCATGTACTAAGCATATTCCCATG
chr09	CCATCCACTAGCTAACATTGCACAT	GGAAACCTTTGAGAAATACTTGAGATTCCAT
chr09	GTCGTTGTCACACAATATTACTAATTGCAA	TGATTGTATGGTGAAAGGGTTTGCTG
chr09	CCTTTAATTTTTTAACCAACCACACCTTC	GTGCCATCCCTTGTGGTTGTATATATA
chr09	TGCCGATGTCTACAATTGCAATAATAGAA	GCTGCACAAAAACATAGGTTATAGAGGTATT
chr09	CCCTTCCAGTTACATTAGTACATAGAGGTG	CACAACATCTTGTCAAACCAAAACAGAG
chr09	CCTACTCCTCGAGTGTCCCAAAG	GCCTCTATGTCAGGTATAGATGGTAAGGC
chr09	CCTCCAAACATACCAGGTTCTAACTA	CACCCATATTTATTTGACTTCCTAAGCCAC
chr09	CAACACCTTCAAATACTTGTGATCTTTCCC	CAAGTAGCATGCTCCTCATTTCTCTATACC
chr09	CGATTCTAGACCAAAGGAGGCATT	TGTTTCATGATTACTCCTAAGAATAGGAGCAT
chr09	AGCTTGTAGTTAGGGTGTGACTTGA	TGTATCAAATGATTCTCTTTGGAAGTGTGAT
chr09	TAGCGATTATACTAGTGGTTATGCTAGTGAA	CCCAAACCTTCTCAATGTCATATCATTAGTGT
chr09	GAAACTACATAACCTCCAAACCTAACTCTT	AAGTCCATGTGATCCTTTGATACTTTGAAA
chr09	AAATTCTGCTTAAGGTTGACAGATGAGTT	TTGGAACATCAACCTAGATACACCAAATA
chr09	GAAGCAATTGTCTCTCTCTCAATACTACC	GTCACAGTCATAGCGACTATACAGCC
chr09	TGACATTGCTGATGACATAGGCTAACA	ACAAAATGGTAATCAAGTGCATTACATCCT
chr09	ACCTTTGGTGATAAAGTAGGAAAGGTTG	AAGAAAAATAGTCATTGCCTTGCTATTTCCA
chr09	TTCGGAGGAGCGTTCTCTTAA	TCAACGAATCAACAAGCCTCATGATAG
chr09	TCTACTCAGCCTCGAAGTGTACAT	CCCAGAATGTCACAATTAATATTATGTCAACC
chr09	GCATGAGATTCTCGACATTACTACTAATGGT	CCCAAGTTTCTCTCTTTCTCCTAAAGCA
chr09	ATGATCAACACCAAGTAGAGTGGTAAAGT	TCAAAAATCACTGCTAAATACAAAGGAGGTA
chr09	GCCAAGCTTTTGTTCGATGATGAG	GAAGGTATACACTACAGTTAGGAACTCTTGC
chr09	GATACGATGAGTGCCTTACACTT	TTAAAATCAAGTTACTTGACCCAAGGATCAA
chr09	CTATAGTGCTACATGATTTGGTCCATGAT	GGTGAAAAATAGGTCAATGGTACAATGTGAA
chr09	TTGTATTTGTCTCTGTCTCAGTTATTAGCC	TAAAATCGAAAATGAATTGAAAGGCCACATT
chr09	AAACAATAGTGGAAGGATCAAGAAAATAAGGA	GTCCACATAGTCACTTAAGCGATG

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr09	TAGATGGCTCACAGTTAGGGCATAG	TGTGTAAGTCACTGACTTTTAATTTTGCGG
chr09	AGAAAAGTTCCCAACCAATTGAAATAAAGCA	GCTTCAACATAACCATCATCGTCAAACC
chr09	GGGAGAAGACATATCTGGGTAGAAT	TATTCAAAGTAAGAGGGACCGACAGACTA
chr09	CCCAAATTCATATCTATCAAACCTTGAC	GGGTGAAGCTAAAGATAGCTCAATTTCTTTA
chr09	AAATATATGCTCTACAAAGTGAACTACCTTT	CAAGAGGGTGACAATTTTAGAAAAGAAAAGTC
chr09	TGAGGTTGTTCAAAGATTTTTGCTAGCA	TCCTTGAAACTCATTCTTGTCTGCAC
chr09	TCTTTAATCGTGAAAGTAGCAATTGCATTCT	AACTGAATTTTACCTCGTAGGAGCATT
chr09	CGTTTAAAAATTTTGAGTAAGGACGGTGAAG	ATGTCTTTGTCTTGCTCAAATTGAACCC
chr09	GGTTTAAGGTGTCCAGTGAAAAATAGGA	AATGACTTTTTGGTGTAATTGCCCAAA
chr09	TCTGGCCATGAATGTGGTGAAGG	GTTCACTGAACATTTCTCGCAAC
chr09	GCAATGGCTCTTTTTCATGTAAAAATGTCT	GAAGGGCCTAGTATGGGTACAAACA
chr09	TCTCGGACATTATTCGTTGATACTTTCTCG	GCCCACAAAGGTAGTGATAAGGTTTATAAAA
chr09	TGCGGGTGAAATCGAGTACAAAA	CCCTCAATGCCGCTTTCAAAATGT
chr09	TAGGTAACTAGGAGAGATCTCCTTTGAAGA	TGGACCTATCTCAGATAAATTCTCTCCAAGA
chr09	TATCACCTTCTCCTAAGCAATTAGGGTTA	AGTCTGGACTAGCTGGACTATACCT
chr09	GCACAGAAAGGACAAGTTTCATCAAC	GAAGGCAAGTTAAAGGGCATGTTT
chr09	GAGGCCTCTTTGTCCAGCAAT	GGGTGGTTGAGGGTGGTTTTTTT
chr09	AAGTTCTGGAAACAGTCTTTGACGAA	TCTCACATGACACATTCATTGTGGTTAAA
chr09	GGGTTCGATAATATTTGGTTCAAGTTGAA	CTGATCTTATGTGGTGGATGACCAAC
chr10	CACACAAACATTCCTACATATTTTAGAGCA	TTTGGTGATGCTATCTGTATTTTGGTCAG
chr10	CAGCGTATCAGTATTATCAGAGCCATC	GGCTGATAATTTCTCCCATATTAGGGTTCT
chr10	CCAGATTGTTACCAACCTCAAGGAA	CCAACACAAGCACCAACTAAAATATCCA
chr10	CGAGTCCACCCAAGGTTTATGTC	GGACTAAGAAAGGTCTAATGGGCTTAC
chr10	CCCTTTGAATAGTATTTGAGTTCCATGAGC	ACCTTCTGCTATTTGCTCTTGGAAT
chr10	AATCTACTGATCAATGGTGCATTGACTA	GGAGACCTGACAATGCAGAAAACCTATTG
chr10	CGAACAAAACCAACTCGATATAACCTT	GAGATCTTGCCGAAAACGTTGTTG
chr10	GTGCCCTTTTGGTATCTAAGAATGGTC	GCATTGTGCAATCATAGTGAAGTATAAATC
chr10	GCTAATAGATGAGAGATCCCATGACCATA	GGAATTTTCTGAGTTGGTACAATGGACAA
chr10	ATTAATGTCTTCCTCTTGGGTACTGTAGTAT	GTTTCAGTGAGGACAACCTCCTATGG
chr10	GAAACACGTTTGAGAGTCAGAGGAAT	AGAGGTATAAGATAGGTGAAAGGAGCTTC
chr10	TTGTTACATAAGTTGTTAGCTTGAGATGGTG	CAAGTATGATCCAACAACACATCAGC
chr10	AGTTAGGGACTATTTTACATTGTATGCGAA	TTCTGGAGTAGACCTACCAGAAAAGATACA
chr10	ATTTGATCATAATTTTGGCTCAAAAAGCCTT	GGGATGCTTTATGGCGGTATTTATAGGA
chr10	AATTAGAATCACAATTGAACTTAACTTGTTCAAT	GGCCCTTCAGTGAAGAGGACT

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr10	GTAGAGGTAAAAATTAAGTGTTCAGCATA	CTTCGAGTAGTTGCTAGGCTGTAACA
chr10	ACACTTTGCAGAATTGGTAGAGAAAGTG	GGAAAATCTCAGTCTCTAAAGCCTCAC
chr10	AATATCCAAGAGAGAAGAGGCCTTAGTT	AGGAGAGGGTTCAACTTTTTATCAAACATTT
chr10	TCTCCACAGATTTCAACAACATCGAG	CCCACCACCAATCCAATCTATGCC
chr10	AGGCAATTCGATTTCTGAGGCATTATAT	AGAGTGCTCGACTAACACTGATTTGA
chr10	CCATAGGCATGAGATCTCTAAATAACACCA	CGATTTTGTTTGTGATTTGGGCATCTG
chr10	ATGCTCTAGTATTCAACTTTTTAGAAAATGTCAT	ATTTCTTCTTTCTTAAATTCACATTATAT
chr10	CGTTACTAGATTTCTGAGAGACTCTTCATGT	TTCAACCATCATGCTTGTAAAGTGCC
chr10	GGATTCACATGGTGAGGCCTTAA	AAAGTCTTGATTAGCTGAAGGCTTCAC
chr10	CAATAATCTCAAAATTTGGTGCGAGGAATG	CCACCCTTAACATGTTGCAAAAGATTCT
chr10	ATAGAGACTTGGTGCTTTCAACATTCAC	CCCATGATTTTCATAACATTGTAAGTCCTATG
chr10	TGCTCCTCTCAAACCTAGAATGAGTT	CGAGACGTTTAACTCTGCATAGAAAGTCA
chr10	ATTGGTTATCTTCAAACAGAAACCCTTTAA	GCCGAGCTTAAAGATCAAAATAGTTTTCTTGA
chr10	TGTCAATCTAACTTTTTGTCTAGCTTGGTT	GAAACCATCTTTTCCACCTAACCAACC
chr10	CCCTTTATAAGTCAGTAAGGATGGCTATTT	AAAACAACATTTCTCTCCTGAAGGAAGAAAA
chr10	CAGAAAAACTTTTAGGAATGGAGACACAA	GATCGAAGTCCATTAGTACAACCAAAATTA
chr10	AACCATGTCTATGAACTCCTCCCATAC	TAGGCATTTATGATACTATTTTTGGTTTCGAGTTC
chr10	CAACTGATCCATCGTTTTCATCAACCA	GACGATATGAGGGTTCCATAATATTTGCAT
chr10	ACACCTGTTTAAATTTGTTGAGATTGTATGCC	CTCCTCAAATGTACAAAGTCATTTTCCATCT
chr10	TGGTCTGGTTGGAGATATCCCAT	CTAATCACGCAAGAAAGAAGAAATTTCTAAGCT
chr10	ATTTTGTATGAGAGTCGAGAGACAAATTGTC	TTTAGGCTCATCATAAGTACCAGTTTTCCA
chr10	CTAGGCTAGGAGCCTCTATATCTCTGA	CCACAGTTTTTGATAAAAGTACCATAGGAGAT
chr10	TGGTTGTATTTTCAGATTTGTGCTTCCTT	TCATCCATGCTAGTATCATTGAAGCTCA
chr10	TAGGGAAGACCCAACCTCCCTTAATG	TGACTATCTCGCTTACCACATCCTC
chr10	CCTCTTGCAATGGGTTGATTTAGCAT	AAAAATTTACCTAAATCCTTTGCCACTTGAT
chr10	GTAATATCCTACCGACCTCCAGAAA	GGGTCTTTAACAGAGAAGCAACTTTATACAA
chr10	CATTTGAAATTATTTGTTGGTCTCCAGCTAA	TCTGATTTCTTTGACGACATCATAGTCCC
chr10	TCTTATAAACAATGAACATGTGCCTCTGAAT	CTTAAGTAGTGTATCTCTCTGTCTTGTTC
chr10	TGATGATTTGGTGGCTATCCTCCTAA	GGGATAGGTACGTTCTAGAAAGATAATCTGC
chr10	TTGAGGATGCGATCAAACTTTGGTAT	GCCCAAATCTGAAGCTCTAAGATTCAAAA
chr10	TATGTGTGCTTATCTATGCTCGATTTACTGC	CACTTCTTCAAGTATTCACAACACATACC
chr10	CCCTGTAGCCATTATGAGCTTGAT	TCATCAATCATCTAAGGATCCACTATCACTT
chr10	TGGACCTGATGTAAAATTATAGGCACGG	GTCATTTTGTCAATTTTGTGCATAAACACATATCTA
chr10	TAGGTCGTAATGCTTGAAATTTGGTAGAGC	TTTTCAATGATCAAACAACCTTTAAAGTCAT

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr10	CTCTACCTTGCGCAGAGACAATG	CGTCCGCGTTATGAGAAACATTTATTAAGC
chr10	GCAAAACACCAATTCCATCAGTTTAACAA	TCAAAATTTGCCAAATATGTACGAATTCGTA
chr10	TATGGACAGACTTAAAGGAGAGGCTTG	GATCTGACTTCTTGCCTGAAGATAAGAGT
chr10	TCTAAAGTAGGGACCTGGTCCATAAAAC	TCAGAAAGTGTTTGGTAGTGATGAAGAAAAT
chr10	TTCATCATTTATGTCCTTGGAAATTGGCTT	CGAGTGTCGAGTTACAACTAGTGATTC
chr10	GGGTTTGAATTAAGTAGGAGATCATTTGGTT	ATGGGACTTTAAGTCCTGCTAAAGAATTTTC
chr10	GCCCAAGATCAGGATCCGTAAGT	ATATAAAAGGGTTGTCATTGCAAATGTGGG
chr10	GAATTGTAAAGTGGACACCTCAAGAATGA	CCCAGGTACGTTATAGGACTCACTC
chr10	CTCTCCCACTACTTTACCGCAAC	AATTGGTCCATTTTGAATGTCAATTTCTTC
chr10	CAAATAATGATTTGTTGAGATGCCAAGTG	CCTATGTTCTTTTACCCTCAGTTCTTTGTTT
chr10	AACTGGGTTTAATTAGGAATTAGATTGGATTAA	TGGTAGTGTTGTTCTATTACCATCTGGTG
chr10	AGGATATGTGAAAGCGTAGTTTGGTG	TGTTCTTCTGGATTCTCTGCTTGATCT
chr10	GAACTCATAAATTCAAACAAAGGGCCAATA	CTTCTGGGCTCTGAAATAAACTTTTGATTA
chr11	AGAGGCCAAATTTAGGAATTTATTTGTTCTAGTT	TGTGCTTTGTTTACATTGAATATGTTATTTGTTGTT
chr11	GCATGTCGAAATTTGAATTAACATTCTCCTC	ATTATGAGCTTGGTATCCACTTTGAGTTC
chr11	CATGTCAAGTCGACAAGATAAGCTATCAG	TTGGTGTGGATTCTCCTGAAATGATAGA
chr11	CCCATGGTGTTGGAGAATCCTAC	GAGTAGGGTCGACCTACCATCAC
chr11	TCCTCTAAGGATTGAGCCTCTCTTTT	GCCATTGGCTTAATTCCTACAAATCTAGATA
chr11	GCAAGAATTGTTAATGTTTCCCTCCCTTA	GGATAAACGAGACACTTCAAACAAATTGAAG
chr11	GGCTTAGGACAAAGGTATAAGGTTTCAGC	GGATTTCGTCTTTCCAATGAGATAGAGGT
chr11	CCCTTGAGCCAGAAAGTTATATTAATTCCTT	ATCCCAACTCTAGACCCATTAAGTCTT
chr11	CCTTTATGTCACGATAAACAACCTCCTT	TCTGCATACAATCTACTTACAACAAACAGTC
chr11	AAATCTCACCTTGAAAAATACATCCCTCAA	GTCAAGGGTGAATAGATAAGTCCATTCTCT
chr11	TGCCCTGCACCAGTTATGATTTT	TGAAGAATACATAGCTCCGGTTAGACTTT
chr11	AAAGGGTTGAAATAGGTATTTAGTTGCTCAC	ACGTACGTGACTCAATAGATCAGTTGC
chr11	ATTGTGTGATAATATGTCTCTGAAGGCATT	GATGTAAACATCACAAAAACAAAAACCACAA
chr11	AATTGATTTACGTTGTTCTTTTATTTGCTG	ATGAAAGCACAAAGACACAACGTGATG
chr11	TCAATCATCCACAAGAATCTTGAAGGG	TCCTCATGTTTCAAGTTGCCATAAGTTC
chr11	ACTGTCCGCTATGTCATCAAGCC	GGCTAGGTAAAGATTATATGGCAATGTCTTG
chr11	CTTGTGTAAAGGTCAACACATGGAATCC	GGGTGACCTCTTTTGTAGTACTTTAAACTAT
chr11	GTTCTGGGAAAGGAAGGATGGTT	CAGTGCATTAGTTTTTCTAGGTGCTAG
chr11	GGTGCAACCACTTTAGTGGCTATA	AGCTTGGAGGTTCAAAAATGAAGGAA
chr11	CTAGGGAAACTAGCCACGTGTTT	GCTATGAAAATTCACCTTTTGCTCGTTTTC
chr11	AGTAACATTCATCATGGAAAGCCACTC	CCAATATGAATGTAAATTGAGGAAATGGCTT

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr11	ATCCTTTCCATCCACAAATAGTACTTGACA	TCCCAATGTTCTCTTAAAGCCCTTAATCT
chr11	TACATCTAAGTATTTATGGCCCTTGGTGATT	GAGGAAGATTAGACCATTGAATAAAGACGTT
chr11	TACAATTGTGGTCTATCCATAAGTTGTGTGT	CAAAAAGTAGATTAGCTAACAGGTGCTACTA
chr11	AGTTGCATCCAATCATATTCTCCAATCAT	GTTACGACGTGGAGAAAATAAGACCTTTT
chr11	GAATGACAGTTCTCTTAATCCCTATTCTCTCA	AGATATAGCAGCATAGTGTGTATCCTAGAAA
chr11	CTAGCAGATCTCAGTTGAAGTAGTCAAAT	AGGTCGATGGTTCACTACTTGACACG
chr11	TAAAGGTCCAAGCTAAAATTAAAGAAGGGTG	GTTCAATTGGGACTTGTGAACTTGGT
chr11	ACACCACCTCGTGTGATAT	GGGAAGTTGATAACTTTATTTTTTACGACTGA
chr11	ATTGTGTTGAATTTTTGTGAGTGAACGAA	TGCTTCAATTCCACCAGGAAAACTG
chr11	CATCAGAGGCCAATGGACCATCA	TCACTTTAAAGATGGTTGGGTGAGATAAAAA
chr11	ACAGGGTTATCTTTTGCATCCCAAT	CACATATGGCTAGACCAAATTATCAACAATA
chr11	GGTAGGATGAAGAGTCAAGTGAGGAT	CCAGCAAGGAGGATAGGATGGAAC
chr11	TCCGATGAAGTTTGAGGCTATTTCGT	AGAATCATAATAAGCTGTAAACTGCTCACAC
chr11	GCACTCCTTTAATCTGTCTTTTGGGTT	TTTTAACTTTTCTCAGCAAAGGTCAGTTGG
chr11	AAAATAAAAACACATTGAAACCTGATGTAACCTT	AAGATGTTTTTGCTAATAGGTTCTTACTTCAATC
chr11	ACTGGGTAATCATGAATTTATGTGTTATCGGG	AGACCCATAGATCTAACATCTCACAATAAAGAA
chr11	GCCATACATTTAGCATCATGAATTCACAA	AGTTGGAAGCTATAAAGTAGAATGGGTTTTT
chr11	GGGACCAAAAACCTAGGTATAGTTC	ATTTCATGTCCAAAATGCTCGATTAAACCT
chr11	ATTCAACCGCCAAAGTAGTAAGTGAA	GAGTCAATCTCAGAACTAGCCTATCATCT
chr11	GGTAGATCTAAGAACCTTCTTCACTTTTCAA	CATCATTTGGTATCAGATCTGAGCTTGAG
chr11	TGGAAGCTACAGTGAACATTATTTTCAGTT	GCTCAAAAGTCAATACTATACCCAAAGACTA
chr11	ATTGTATCCTGGTTTCCCTAAAATTATCAA	TGAGGCTAATCATTTCTGTATTTCGATCAGTAT
chr11	TTGCTGCTTCTCATTTTTTGGAATTGAG	TGAGAATAGTTTTGCAGACCTAGACTAGTG
chr11	GGTGCAAAAATAGATGTTGACCTAGTTGA	GCACCATTTTTAGCCTATCAGTTTTGTATA
chr11	TGCTTAATCGATCTAGAAAGACTGGAAAGC	GCTTATTTATTTTCATGAATGGTGGTCCAAA
chr11	TCTACCGAAATTGTCTTATTTTTGTCCATCA	CCTCACTAAGTTACAGATGTATCCCTTGAAA
chr11	TTGAATGAATCACGAAGGGTTTCTAAGTC	ACACTAGGATGCTTAAGAGACCATCTATTAA
chr11	CTTTTTAGCTAGCCTCGACTCGATG	CATGACCTCCACTACCTCTACCTC
chr11	GACCATGTGAGCATCATGGAGTT	GCACAGAGAGAGGAATATGGGTTC
chr11	CGAAGGCCGTTGATGATCACTT	AAATAAATCATACATAGGACCCTAATTCCTTTTT
chr11	TCTTGATATATTTTCATGGGCTTGTAAGTACA	CGGCCTCAATGTTCAAATCATGTA
chr11	TCAAATCAGTTTTCAGACCACCAATT	AACAACAACCTTTGGCCTTTTAGTCTTGA
chr11	CAAAGTATCTGAAGATGACCTATTGGTA	AGATGGATGGACATACCTCTCATTTTCAT
chr11	TCACGGGTAAAACCGTAGAAACAA	AATCTAATATTCTCAGCACAAGAAACTCCAT

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr11	TGACACAATCATTTTTGTGTCTGTTGATGC	TTTTTCTGCACTTTCTTCAATAACTCTGTA
chr11	CCAAAACCAATAGAGGTACACCAAAATTC	ACTGTCAAAATTGATGCACCACATAACC
chr11	TTTCTCTATTTCCAAGATTTGGCACAGTAA	GGTTAAACAAACGCATACATGAGTATCCA
chr11	TGGTGGTCATTAGGATCATTTTCTTTTGT	ATGTCCCTCACCGTACTATCTAGATACT
chr11	TCTAGCAAGGATATGTTTCATCCTTTGGA	CTGATACCAGTGTTACTCATCTCCCTAG
chr11	TGAAACTTACCAACCCAAAAAGATTCATTT	TGATATAGAATGTATGCAAATGTGGCTTCAA
chr11	TGCCTAAAAATCTCCAGTACAGATTGGA	TAGAAAAGCTCCCAATCTTTTCGTGAAG
chr11	ACTATACCAGATTTTGTGCTTAACATCACTG	GTCTAGCTTCTCCGATGGAAATTTTAC
chr11	GGTTCTCAATCTGTTTGAAGGAGGAC	TTGCATCTCGGTCTCTGATATGGTCA
chr11	TGTCCTCCACAAATTTTCTTTCTCTCTT	CATGTGATGTAACCTCTGGGAGAACAAC
chr11	ACTTCTTTACGAAAATGGTTGAGATAACCTC	TATGTCAAGTGCTTATAGTGAAAAGTTGGTG
chr11	GATCTCACACCCAAAAAGACCTTAATTAAAT	CCGTTTTAAGGGAAGAATTGGCCTTAG
chr11	GTGTTTCAGTATTAGGAGGAACGCTTT	CTCCTAATGATTTTAATGATCACGTGCTTA
chr11	GAAAGGGATCCTTGCTTTATTTCCAGTA	TGAATGACTTATTTGAGGATTTAGTACATGGGT
chr11	ATACGAGAAGGGTGAGAGCGTAT	AATCAGTTGTATATCTCCTAGCTAGCCTTG
chr11	GGGCACAATCTTGTGAGTTGGTT	CGATGTGTTTGAACCTGGTTCATAACATAAC
chr11	ACAAAGTTAGAATCATCACCTTGTTTTAACT	TACCACTACCTCAAAGGTGAAGTAAAGAG
chr11	TACCATACAAAACCTTAATAGCTGCAACAA	GTTCCAAGTTTGTCTCGGTCAAATGT
chr11	TCTTCATAGCAAGTCTGATATTGCAACAT	GTAAAAAGCATATGGGAGTAGGGATGAAAC
chr11	TTTTTCGTCAAAGGAATTCGAATGAATCCC	AAAAACTATGGCCAAATAGGTTCATGTTAATA
chr11	GAGAAACTCGGTATTTGTTATCGTTGCT	GTCAGAGAATAATAAATTGTACTCGATCAGTT
chr12	CATGTAGTCTAACCTCTTGAAAAGGATTCAA	AGAGAACTATTTGGACATGTAACATGAATCCC
chr12	TATCTCCAATTTGGTTTCGTTTGTGTTTTGG	TGTGTCAAACACATCTTTTCATCTTCGAG
chr12	ATGGAAATAGACTGAGTTTCGTTGTTCAA	GGTAAAAGTAAAATGGGATTCGTTGATGGA
chr12	CCGTTGCTAGAAATGTGTCAGTGA	TATTACCACTTCCCTAAAGGAACCATTTGA
chr12	GGAAATTCAAAGTGTAGCACTACGATTGC	CATAAGATGAAGGTGGCGGAGATTAAAA
chr12	GGTGAACCATTTCTAACTTTGGTTTTCTAGAA	CTTCACTTGCAACAAGTGTGGTAAGC
chr12	GCCATGCCAACTCACAAGAAAAA	TGACATTTAACTGTTAGGCCCACTTT
chr12	ATTCTACATTTCTTTCTCATGGATTGGT	AGAAATAAAAAGGTTGAGTTTCCGTATCTGAAG
chr12	TCCAATGCTCAATACTTGAACTTTTAAACAT	AGAGAAAAGGTAGATGCAGTTTCAAAGTTT
chr12	ACCGGTTGAGTGGACTTTTCATCA	AAGTAGTTGTACGGCTTAAGCAC
chr12	TGAAGTTGAAGTGCATTCAAGTTGGC	AGCAACATATATCACTTCTAAGGTCTAGAGTTTT
chr12	CATAGGCTTTTTCACCTTTTCTGTTCATCT	CCGGCATAAATAATAGAATTGTGATGCATA
chr12	GGGCTTGAAAGTGAGGTAGTTGTC	TTAGTAATACACGAGAAGCTGGTTCTTTCA

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr12	TGCCACCAGTATCTTCCTCTGAT	CCGGGAACCTCGATGATCAAACCT
chr12	GCTAAGTAAACATGTCAAGAACAAGTGAATA	CATGCCTATAGGAACAAACCCAAAATAATTA
chr12	TGTGGAGAAGATTTTCAAACCAAGAACTAC	AATCACAGATGACACTTTCCCATAAATCTC
chr12	CCAACCGAAGAATTATAGAGAGATTTACCAC	GGTGAAGAGTCAACATAAGATATCGCAG
chr12	AGGCTATATCTTGCAGATAATTCCGTTTTT	GATGTTGATGTGGACGGCCTATC
chr12	ATTGTTGCATTAATCTTCAATGAAACCTGTA	GGCTTCAGGTCTGAAAAATGACACC
chr12	AGCCGTTATGTATCTCTTAGCCATTGG	GGCTATGAGTCATATTGACACTCGTA
chr12	TATTAGAAATTGGTACAAAGCAGACAAGGTG	GGTTCAGTGGATCAGTTTATAGTTGCATTT
chr12	TTGGCACGAATTTATACTTGTGTCACTAC	CTTAGGAGCTTACATGTCTCAATGATCTTTA
chr12	GCCAATGCGCCTGAAATATCAAA	ATAGGTTAAGAGGAAGGTACAAAATGGCC
chr12	ATTCAATGCCATTTTGGCCATAACAAA	ACCACAAAATCCAAATAATCCAGAGAATCTC
chr12	CAGCTTTGATCCCTTGTGTGACATTATGG	TGTGTGTGTAATACAAATCATGAAAGGTGAT
chr12	TGACCAGATTTTTTAAAGGGTCACGATG	CCGAGCATAATGATCGAGTGAGTAATCC
chr12	TATCAGCGTTAGAGGGATATCAACTCTAGG	CCCATCTAGAGATCCAGAAAGGGAT
chr12	GTATGATGAAACCAGGGAATGCCATAA	CACACGACATTCTATAGGAATTGAACAAGAA
chr12	CAACATATGAGTTGTATGTTGGACTCGTAC	ACTAGTCCTTTAACTCATAAGCTGGACAA
chr12	CTCTAATTGATTCCATGGAAATGGTGAAT	GTTGTGGGTTTGTAGTTTCCTCATTTTTT
chr12	ACAACATCAGTCTGGCTTATGTACATCT	GCTGATTATGATTTTGTATGTTGGAGAGTTCC
chr12	GTTGGACTTTTAGGTATGGTACTTGTTCAT	GGAGGAGGGTCCGCTATTATGAG
chr12	ATCAAGGAGAAAAAGTTTTCTTGAACGTC	AAAAACTTGCAGAATCATACGGATTCAATTA
chr12	GATAGCCAATGAACTTGGCCTTTGC	TTCACCGAAACGATCCCAAACAGAAATT
chr12	TAACTTGGTTACTCACTTCAGTCAGTCTG	GGGTAAGTCCAGTAAGAATAGTAGCAAGG
chr12	AAAGAGTGAAACATGTAGGAGCAATGAC	CTTTAGCTAGTACTAGCACCATTGAGGC
chr12	ATCCTGGAGAACGTTCAATAAACCA	CCAGATATCAGAGAGGCAGAGATTTTCTT
chr12	GCTTAAACCTCTAAGTGCTATACACTTGCC	CTTTGGAATCAGGCCAAAACAATGATAA
chr12	GTTGAGCAGTGAACTAAGACCCAA	TTCTGTGTACTTTGGTGCAGAAAGAAATAAC
chr12	GAATTTGATTTGAAGAACTGGTGATACGAA	GATCTTTCAAAAACGCATAACTTTTGGATGA
chr12	CTCTACCACCAACTACATCCACTAAATG	GGTCCTATTGCTCTTATGAATTACTAAGCAC
chr12	AACTTCTCTTAATCTTTTTTCGTCTCAACTT	AGAGAAGACAACAGTGACAGAAGATAGAG
chr12	AAAAGTTGGGCCTTTCTTTAGTTGCT	CCAAGGGAACAATAATTTCAATTTGTTCTTT
chr12	TGTTAGAACGAATTCACGTTTAGTTGGAC	CATCAACAACCTTTCAAGTGGCTATTTGTAAA
chr12	GTCCCAAAAGAAGCAAAAATAAGGAAGAGA	CACTTGGGCATTAATACTTATCCCATATCTT
chr12	ACACTAAGTGCAAGTCATTACAGATCGT	AGAAATTAAAGCTCCTCTTTGACATCGTTT
chr12	CCAATAACAAATCCATTAAATTTGCCAAGCAG	TGCATATTAAAGATCCTCAAGAAAAATGCATA

表 A.12 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
chr12	GGAGAAGTTGGAATGTCTGTCCAC	AATGCTGTTATTATCTCTAAATGCAGGTCAA
chr12	TAAGTGTGGTCATCTTTAGTTGTGATGGG	GTTCAATAGGGTTGGAATACCTGCTC
chr12	GGCGGTGGTGGGAAGAGAAT	CGCCGACGGTTCTCTTCTACC
chr12	GAATTAACCTCTACAACCACAACCTGGTAC	GCACCAAACTCAGCTAAGTTTCTATTTAAGT
chr12	TATCTGCTATCTCTCACTAGCAAAGGTA	GAAATTAATCGAGGTGCATGCAAGTTG
chr12	TCAATGAAACAGGTTGAGAATCAAGAGTT	GCAGAAATCCATCTGATGATCTTGTAAGTTT

A.13 白菜 MNP 标记引物

白菜 MNP 标记引物见表 A.13。

表 A.13 白菜 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A01	CCGCTAAACGTCTCCTTATTCTCCA	GAGCCTGATGTTACTTATGTACCTGATCC
A01	GGTCTTGATGGACCTTCCTCAACT	GAAGCTCTTAACCTGAAGAACAGAGTAGACA
A01	TTTTCTTTTGGTTTTGCAGGTTCTT	CATGTCTTCTCAATGTACTCCCACTTC
A01	TCTCTCCGAGGATGTAAGTCGATGC	CCAGGATAACGTTGAATCATCTCTTCGT
A01	TCAGCTTCCACTCCACTCAATTGC	ACATCCAATGCCTTGTCTTCAATGG
A01	ATCCATAGGACCTGGTCTCATAGGC	TCCCAGTAGAGTTCGCCCTTCTTC
A01	TGTATCGAGAACAGTTGCAACATGAT	ATTTACCATTTCTCTGGCAATCTTTGCA
A01	CAATTTTGGCTCGTGTATCTCTGACG	GTATGTCATCAATCACAGTCCTGTGAAT
A01	CCTCATCACCTCGTGAGCTTTCT	GCTCACTGGTCTGTACACCTAC
A01	CGACAAAGGATCACAATGAGCTGAA	CAACTCTTCGTTTGAATCAGCGTG
A01	GTCCGAGACATAGGTTTTGGCTG	AAATGGCAAAAAGTTAGCTCTTTCTCTGA
A01	GTTCGTGTCCAGAGAGCTTGTTT	ACCTCACCAAAGTGGAGATAACTCTC
A01	GATTACGAGATGGAGGAGCTGTAGT	ATGTCGTGGTTACCCATCAGAATTTG
A01	CTCCCTCCATCGAAGGATTCATCG	GTCATTAATGAAGAGAACGTCGAGGTTT
A01	TTCGAATCTATCTGAACCTAACCAACCG	GCTGCAATCATCCACCCATTCT
A01	CATGCTCAGATTATGCTGAGCGTAG	TTGGTTCACCATTGATCTCTCCTTGA
A01	TGGCTTCTTGAGCTCTTTCATCCC	GGCTGACAGTTAATCCAGAAATGTGG
A01	AGGCAGATCATCCCTAACCTTCAG	CCTGAACCTCCATTTATGCTAAATTAGCTCT
A01	TTCCATGCTTGAGACTCTTAAAGCTT	CGTTGTTATCCTCATCTTCTTCTCGATTAA
A01	TACATCACCAGCATCAAGTTTACTTAAGTTT	ACAGTGGGAGTGGAAGGTCTATCA
A01	GGTCATAATCGGAGCTGGAGTTG	CCTCCAACAACATCTCCCTCAATGA

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A01	ACATCAGTTGTTTGGGACCAAGAAG	TCGTTTCTTAGGCCATCTCTGTTGG
A01	GTTTTGATCATCACACAGTTTTGAGACAT	CGTGTGGCTGATGAGAATGGTCA
A01	AGATCTGACGCAGTTGATAGCTTCA	GCCTCATATGTCTCTATCTTGTCTTGGC
A01	AGTTGAGCATGATTCAGAACCACTT	CCCAGGTTGGCTAAAATGTAATTTTGATTGT
A01	CAAACACCGTAAAAGCTTCTCATTCCT	TTCCCAAACACCACCAAGATCACAAAGG
A01	ACCAAACGCCCAGATCTTGTTTA	CAGTGATGGGTCTACGGAAGTTCA
A01	GTTGTTGTAATCTGTCTGGACATGTTGC	AACCTATGAGGAATGTATCTGTGAGGAA
A01	TTTTGTTCTGACAATCGTTACTGTGCA	AAAAATCAAACTACAAAATCAGAACATCATCTA
A01	GGATTTTCAGGTAATGGTTTACTCAAACAAT	AAAAGTCCCAGTCCGATGATACCC
A01	CCACCCTAAAGTCCGTCTCTTTG	CCAGTGGTAAGGAAACCCTAAGAGG
A01	ATCACTCGGGAAAAGCAGACAGAC	TAAAACTACTTGGCTCTGATCTGAGAAAAGC
A01	ACATAAAGAGCATCATGTGATTCTTGTGAAC	TTTTTGGAAGACGAAGATTAGTGACAATTGG
A01	ACACACACACACACATATACTTAGAACC	CGTTAGGTGTTGTGTATGGAGACATGG
A01	TATCATCGAGTGTGAGGTCTACAGTCT	CGTGTTACAGAACAAAAGCAGCAG
A01	GGGATTCCATCAAGAAGTTTTTGACTGA	AAAAACAGAGCTTCAATTTCAATACATGCTG
A01	CGGCTCAACCATGTTCCTACTG	TGCATCACAATGATATAGTGGGCATTTT
A01	CTTCATCATTCAGCCTAAGCTCTT	TGCAGTGAAAAAGAAAGCGCTTACT
A01	CTTTTCTTGCTGAAGGTTTCTGTTGAA	GTTTCAGACGTTTATAATCAAGTGCGAATGG
A01	CAAATAAACCATTGCTCTCTATTCCGTTTCT	CTTTTTAGTAGCCGGTGGTACAGTC
A01	GGTGTGAGGAGGAACGTGAACA	AAACTTTGAGGATGTCTTCTTGACGAA
A01	ACATGCAATTTTCGTAGGGTCCAAA	TGGGATCAATGGAGTTGTGAGAAAAGC
A01	AGCAAATGAACAACGGAATCAGTAGAA	GACCTGCTAGTACATTTGGACCAG
A01	TGTTACAGTGCTTGTCAATGGACAT	TATCGCGGTGTTGAACCTATGG
A01	TCGAAGTTGTGAAACAACAAATGCAC	TTTCTTAGTTGTGACTTACCCTTTTACATACTCA
A01	GAATCACTCTGTTTTCCATCATTTGTCGT	GCCTGAAGACTTTTGGTTCAGTGC
A01	TGGTCTCTTCTCACCACGAATC	TCATCACCGTAGTGATGCTTAGCA
A01	CGATCTTTCTACTCTTCCGGATCATACT	CATTTATACGTTCCAGGACTTCGAGTG
A01	CCCTAAACTGGAAACAGCTAAAGATCTT	TGAGATTCTTGAAAGCTTTTCTTTAGGGAAG
A01	CCGCTCGAATCTTGTCTTCTGGA	GCTTCTTTGTGTTGCTGCCTTTGC
A01	AGTCGGTCGAGGAAGTGAATTGT	GCAGTTACTGTGGGTGAATCCAC
A01	CACATGTTGAGGAGGAGCATCAG	TCTCTCTCTCTCTCTCTCTACTCTTCC
A01	AAAAACATGGACAAGCTTGGTTTTAGTC	CGTCGCTAGTCTCTTCACTGAAAACC
A01	GTTAAAGGTAACAAACCTGCGGTTTA	TCTCAGACCCTGAATCATACTCTATCACC
A01	CGAGGACGGCTCAGATATAACCT	AGCATCTTTGTATATGTAATGAAGCAAAGCC

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A01	GAGCTCTCTGTTCAATCATCTCTTCTCA	TTCTCTCTCTTTTGGTCTCCACTCTC
A01	CAATATTCGAACCAAGGCCTTGAGG	AATACAAAAATGCACTCTTCTTGGATATTAATTT
A02	GAGGAGTCAGTTGTATTTCTACACAACCTTC	AAAGCCCTGAACTTACCTTGCTC
A02	ACTCGCATCTTCCGAGGTTAGTAA	GTACATGTGCGGATTCGTGATGC
A02	AGAGGCCCTCAAAGTCAGTGTCT	CTCAAGATTAGCACAAAGGCTAAAAACAAAT
A02	GTTCTCCCTCGTCCCAATACACC	AAAGAGTTACCAACACGACAGTAAA
A02	TTTTTGCTGGCTCTCGAGTTCTC	AGCCTTTATATGCAGCCCTGAATTTT
A02	CGTGAAGTGTGTTGGCAATGTCG	CAAAGTTACCTCGTCGTCGGAATC
A02	AACAGTAAGAAGAATTTAACCCGTGGGAAA	GTTTATCTTTGTCCAGGGTGGTCTAAGT
A02	TCTACTAGAACAGGTGAGAATCTCTTCTC	GAACAGATGCATCTTGCAAATCAATCC
A02	TGAGAAGCCTTGAGTATGATCAGCT	AGATCTCGGTTCTTGAGTTTGATGATTCG
A02	CTGTAACGAAAACCTGCCTCCTCATTAG	ACGTGTATGCAAAGTGTGGAGATATTAAGAG
A02	TCTCATCGCATGATCCAAAGGATAAGG	TGTAAGCTAGACGGGTCCATCTATAAATATA
A02	TGAGTCTTCCCTCTTGGAACGAT	CCTTTCTCGGTTTGAATCTCTCTCT
A02	ATGGTTTGAAGGGTTATTAGGTAAGTTGTTA	GTTATTACGACCAGTCTCAGTTTCAGACC
A02	CTGTACAGTTAACCTTAAGGTAACCTTCTC	CTGATTCATCGTTTCTTCCCAACAATTAAT
A02	CGCCTGCTTATACCTCCACTTATC	TCTTGCGTTACGAGCCTAATAACCA
A02	CTGTAATGATCCTTGCAAGCTCTCTC	GGAGGGAGTCTTGTTAATGATTCGTCG
A02	CCACCCTTCGAGTAAAATAGTGTAAGAC	TAGACGACATGAAACACAAGAAGCTTC
A02	TCCAAATCACAAGACCAAAAGACTAATGTT	AGTAATGGGATGATAGTGCCAATCTCTT
A02	CTAAGTGATCCTACGCAATATGACGAA	CGATCTTGAAAGTTGACATATTATCTTGGGA
A02	GGAGCACAACTCATTAAGACCAACG	CCTTCCTCTCAGGTTAGTTTCTTAGAAAAAT
A02	ATCGCGCAATCTCTCAAGACTTC	CAAGATTATGCTTCAGCTCTGAAGAATCTAG
A02	CCCTGAGGAGGACCCTCATAACC	GTGGTCGAGGAAGAGGAGGATAC
A02	GAAAATGGTCGGAGCGTCTACTC	GTTCAAGTGGGTCCGTCCTAACA
A02	CCGGACCTTGCTTCTGATTTCTCT	TTTGAAGTACAGCAACATGTTTGTGGC
A02	TAGAATGTCCTTCTCCTTCTCCACAA	AAAATGCCGATGACGGTTGTTC
A02	TCATGTGAATGTCTCTCAGTTTGGTGA	CCAGCCCTGGAAGAAGATTAATTATACATA
A02	GAGCTCACGTCGGATTAACCATA	CTCGGCATCTAAGCTCATCTGATG
A02	GAAGAGACAAATTTCAAAGGAACGGAAC	ATTTACTAAACCGGGTTGGCTGATG
A02	AAGACTTATCCTTTTCTTCACAAGTATCATCT	AAGAATCAAACCTAACTAAATGGAACGCAATC
A02	AGTTAACAAGTCCAGGTTGTTTGTGTG	AACAAAACCTTGTGCCAATCAAAAAGAATA
A02	CATTAGAAGCCGGTTGCAATAAGGA	CTGAAAAACAGGCAACCCATGTTTG
A02	AACCTTTTCACATATATGAAACGTTGTCAA	TAGGTGAAGTGACGGTGAAAGAAAGA

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A02	CGGGTTGAGACAGTACGGTAACT	TAGCTTCAGAAACAAACTCACACGAA
A02	GCCGCTATAGTTGGACAAGATGAG	TCAACCATGTTGATCTTTGTCTCCATG
A02	GCTGCCTTCTAGAACCTTCTGTGA	CATTCTTGATTACTTCTCTGTGATATCGAAG
A02	TTCTTG CATAGTAACTCACTAATTTACCAA	AGCTATGGTCTGACGTTTGAGAATACA
A02	CACCCTCACGTTTCAGGTCATTA	GACAGACCTCATGATCTAAAGGATGGA
A02	CAAAATGTCTATCCAGAGGCTCAAATAACAC	CCTGAGCCTGAAGCTGAGATAGC
A02	CCCTTTGCCATCAAGAAATAATAGGAAAC	TTGACTCAAGGGCAAAGCTAACTG
A02	CAGATCAACCTCAACTAACGAAGTCAT	CTCCTTGGGAGATTCCCGAAACC
A02	TGCAGGTGCTTCATTATTCGCTG	AAACATCGAGCTTAATTAAATGCAATGCTA
A02	TCGATTTCTGCTTCTGAGGTTAGATTCTG	AATACGTCACAAAGGAGAAGCCAAA
A02	AACAGTTAAAGATTGCGATTGCAATTAGTTT	AGTGTGATGACTTTCAAGTTGAAGAAGAAG
A02	CTTCCTTTCTGTCGATTGAACAGATGG	CTTCCCATTCCTTAACTTGCTTCTCAC
A02	CAAGTTGTTGCCAGAGATATTC AAGGA	GCGGTTGGAGGAGGTGTATGATAG
A02	GCAGTAGTGGAGCCTGTCCTTAG	CGGGAGGCTCTTAACCTGTAAAGA
A02	CAACACGACCAAGTCATCCTCTC	ACAACCTTGTAAGGGAAAAATGGGTTT
A02	AATCGTTTGCTTCTTGAAGCTAAACCT	GAGGAACCTTTATACACACAACAAAAAGAAC
A02	CCCAATCCATTTCAGCTTCTCCAT	TTAGATTTTTTGCCAGTGATGTTTTGTACAGA
A02	AAGGAGTAATAAGAAGTTAATCAACAAGACACAT	GGTCTCTCTGACCATGTTTCTGTTTCTG
A02	CCTTCGGACAGCTAACGTTGATA	CCAACGGTACAGGAAAATGCACC
A02	AAAGAGAACATGAAGACATGTGATATCAGAC	GTATATGGCTATATGCTAACGTGGTGTT
A02	CAATTCAAATACCAAATCAGCCGAAAA	GCAAAACATGCCTGAAGAAGGTTCA
A02	GTGATTTGAAATAGTCACTGTTTCTTTTACAGTT	AGTTTGAAGCTTTCTCAGAGTATCCGG
A02	ATCTATGTCACTGCTCACTACTACCAT	GAGTCTATGTAACGATCTGAATCCAAGTTTT
A02	GCTACAGCACCTATGACGTTGAG	GACCGTTGTATGCATTGTAGTAAGAATAGAA
A03	GCCTAGGGACTGTTTCTTCTCTCT	CCTGCGCACTGTGTGTTAATTTGA
A03	ACTGTAAAAAGAACAACCTCCCATGGTTA	CCCAGTTATGTAATATGACAATGTGGTTTTT
A03	GACTGCACCTAAGCCTTACTGAA	AGTCTTTGGTAAATCAGCAATAGAACTGTC
A03	CCGAGAGCTAGCGATGATGTTGA	GAAAATGTCTTAACCCACGCGTTTC
A03	GCCACCATAACCTCTCCTCTCTT	ACTTCGAGAAAAAGAACAACCCTGAG
A03	GCGCGTTTGTTTCGTTCTTTTAAT	CGATCGCCCAACGAAATCTCAAT
A03	GTAAGACCTGAAGGCATGGACAA	GCTGCCCATACGTTTTCAAGCG
A03	ATCACCAGCATTGACCACGAACCTC	TGGACTGTACCTGCGATGGTATG
A03	TTTAAGGATTTGGCTGAACAAGATTTGGT	TGAGTTATCTAGTTTCGAGCTCTGCTAAG
A03	GGACAAAGTTCTATGCTAGAGATTCTTGTT	ACGTAAGAGACCCTTCTAAATCCCTT

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A03	ACTTTTGAGAAGTCTCGGGCAAAA	CGACAATGGTGATCTTTAGCTGTTTTTCA
A03	GAAATGTAATTGCCATCTTCAAGATTGCTG	ATTGGAAAAGACCCGTCTTACTCTCT
A03	CAGCCCAGCCATAATCCATACCC	AGAGAGGGATTAAAACAACCTTCAGTCTTCG
A03	TGTTTGGGATTGTGCTTCTGGAC	GCCTTCAGTAATCACACAACCAACTTC
A03	CCCAAAGATGGAACCTGTTCTTTGAC	GACTTTGATTAAAGGTGGAACAGAGTC
A03	ATCGAGGCTAAAAGCACACCAAA	GAATGTGATGAGTCAGAGAAGATTCTGGT
A03	TCAGGTGATTCTGAGAAGTTGATAAGAGTG	CTCATTTGTTTTCTGTAACCCATCCATC
A03	CCCTTAGTGCTCTATTTTAAATACCAGTC	CCCTGAGGATTGGTAAGCTCTT
A03	CCCTTCAAATCCTTCACCGTCTTC	TCCTATACGGCTCCCTCACAAAG
A03	CACATGAGACAACCTTCTCTGACAT	GTATCGTTTGCCTTTTGCTCCTTTC
A03	CTTCAGCTTCAGAAAATCCTCAGGAT	GCAAGCCTAACGAAGTTTACAGCC
A03	CTCAAACCTGGAAATCCCACATC	TTTGCTGTCTGTTCTGTTTTGCTGG
A03	AACAACTTGGCAGTATACTACAAGACTCA	CAGATGTGGTTTTAAGTTTGCTTAACTGTTG
A03	CAACAATTCACAAACAAGATCACGTCTC	CCAAACACAACAACTCGAAATCGACG
A03	CACGGAACCTATGGATTGGATATAAGCG	TTGAAGGTAAGCTTCCGTGAAGAAG
A03	ATCAAATAAGTAGGGAAGCATCTTACGAGA	TCAGTATAGTGTTATTTTCCGTGTACATCC
A03	CCCTTTGTATTCTGAAACACTTGCTC	GCCTTGTCGGATGTGTTTTGGAG
A03	TCTCAAGTCTTAACTCTCCTTCTGCTT	TGCGTGTTTGAATAATTGGAATGAGAACT
A03	GCGGATCAGTACTCGAACAAGAT	GTGCCTGAAGATGACAATGCTGG
A03	TTGATATACGCAGGTGCTTTTGTCTTACT	AAAACACACAAAATCAGAAGCTGAAACAG
A03	GACTACCTAATCAAACCTGTACGCATG	CCTCTTCTTTCCGCTTCCTTGAG
A03	GTCGCAATCCCACCGAACAATA	ACGGTTATAGACCAGTCGGATAAGAAAAG
A03	CTCCATCAAGCATGATGTACTCAATGAA	GCTTCACAATGATCTACCAGGTATAAGTTTG
A03	AATGCTAGCACTTTGGAAGATCTGTG	CCCAATGCTCCAATCAAGAACCC
A03	CAGGAGATCCTGTCCCTCTCTGTT	TTGGAGGAGAGAGTAGATCCGTTTC
A03	GCGATCAACTGAAAACACGAAGTA	CTGGGATGAAACTCGGTTTCAACG
A03	CTTTTGCTTTTGCTTTTGATATCTACCCTT	GTTTGTATTATCACTCGAGCAGTAGTCTGA
A03	AAAAATATATCAGACAAGCTCGATCTGTCAA	AAGGCTTTGTTTGATTTTGGTAGAGTTGT
A03	TGTAGACATTGAAACAAGCATAGCAGAT	GATGACTCGATGTCGAACTTACTGAC
A03	GACATCCATGGCTTATCTGTCTGAAA	TCTCCATCTTTTTCATCTGGGTTTTCTCT
A03	CATGTGTTTCAGCCCTTTACCTGAC	ACAAAAGCTAAGTTCATAGTCATAGACAGTTA
A03	GATCGTCAGGAATTCCCAACCTG	TGGATCGTGCGTTGAGATTGTTT
A03	GGAGAGAGCACATACGTGGTAACA	GAGAAGAAGGCAGTGAAGGCTAG
A03	GAGGAAGAAGATTGTGGTAACATCTTTGG	CACAGAGGTTTGATGGAATCGACAA

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A03	TCGAGCTTGAACGAGAATCTAGCG	CGCTGCAGCTCCAACAAATTAACC
A03	CAACAAGACCAAGACTCTCATCTTGTA	GAGTTTCCGACAAACGTTCTCTCTT
A03	ACAAATTTACAATCACACAGAATAAAAGTGAGAG	GTGCCTCACCAACCTGGATT
A03	AGAACAAAGAAGATTCAAGTGATGATGGAG	AACACAAGTCTTGATGTGAGAAGACTTT
A03	TGAGCATGTTCAACACTTGGTTCTG	CTTGTATACCGGTTCAACAAGACCTG
A03	CTGCACTGGACAGAGAGAATGTG	TTCTGTGCTTCTGTGTTTACCTGAT
A03	CACGAATGCCCTCCAAAAGGTAA	CAGACGCTTCAACTCCAACCTCA
A03	TAATGTCCACAGCTCGGAGAGATTT	TTAGTCTCTTTTGTGTGTTTACTTGCTCTC
A03	ACGGCAATGAGGTTATAAGCATACCA	CTTTCGATTTATCTGCAAAATTCAGAGACTTT
A03	CCTTTAGTGTTTGACTTAGGACAACGTT	CCTGTGCCAAGTACCCTACTTTCT
A03	GTGATTCAAGTCTTCCTTAACTGCTTTGT	CTGATACCTCCTCAAGCTCATGTCC
A03	GGATGCAGGACCTTCTTCAGAGG	GACATACCTGGATGATGCCAGAAC
A03	CAATCTTGATTACCTACCTGAATGCCTT	TCCTGCCTCTTTCTTCGCTTTTTG
A03	AGAGGAAGGGTGTGAAACAATGTCT	CTATTCAATAAAGCAGCTCTCTCTTCTATC
A03	GTTGAAATTGAATCTTGACTGGTTGAGATA	TGAATGTCCCTTCAGAGATCTATCAACAA
A03	GTGCAGAAAAACCTCTCATTATGAACCT	ATAATGGTGGTTTTGTGTTTTGTGAAGCTC
A03	GGGATTGATGTTAATTTTGATTCTCTCTATAGAT	GTCTGCTCTGGTCTAGCACGA
A03	AAGGGCTAATGGAATCGATCAAATGTT	CAAAGAAGTAGCTGTCACTGAACCTC
A03	TATCCGATTCTTGTGTGAATCTTGCAG	GTGTATCATCAGGCAAATGGTGATGG
A03	TACTACAAACATTGAGCTTACCAACTTCAT	GCTTTGCATATCTACTACACACAATAGTC
A03	GCTTGCTCCGTTTGATCAGGTAC	CTTCTTCTCAATCAGATTTCATGGTCGAAG
A03	CTGAGTAAGTTCTGTGTTCCGGTTT	GCATGATCCATCATTCATTCCATCATTACC
A03	TATCATCCCATCTTTCTTGATCTCCGTAA	GCCCGATAGACAATCTTACAACGTAGT
A04	GAAGTTTCCATTAATGTTTCAGAAGCTTGAAA	TTGAATTGGCTGGGAATGATAATTACTGTG
A04	CCCAATCTCTCCAAGAGAGTCTACAT	TATGTTTCGGTTCAATACAAAATCATCTCCAA
A04	GGACTAAAACATCAGTGTCTTGCAAA	TCTTTGAGCCAAGTAGATTGAGGTGA
A04	GTAATTTTCATAGCCAACTTCCAACCATCT	TGGATATCCTTTCCAGCCTTTGAGC
A04	CTTTTGCTTCCTCTCTCTCATGAATCTG	GAATAATCTGCTGAGCAAGCCAAG
A04	TCCTTCATCGTCGACTCTAGCTT	AAGTGTCTGGAGAGAGCACAACA
A04	TTTTTCTCTGAAGTGTTAGTTTACAACAA	TTTTTTCGGAGACTCCAACATAATGCA
A04	AAGTAGCTTTTCGAAGCCAGCTTT	ACCACTTCTTTTAGCTTCCATCACTTC
A04	TATGTTTCGTTGATTAGGCAAATCTGGTT	CGAGATTGCCCTTGTGCTCTTT
A04	CAGGGACCAGACAATCTTTTCTTCTC	CTATTACAAAATCCCGAACAAAAGAGTTA
A04	TCGGATGCTCCATTTTGTCTACCC	GAGATTGAGGTAGTAGTACTCAAGAAACGC

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A04	TCCTGAAGATTTTCCAGTGCTTCAT	TCCCACTCTCCTTCTGTTTCTCTC
A04	AAGCAAAGGCACATACCTTATACTTCAA	CGTACCCTCAGCTCGCTTATTACT
A04	TCATCTGTGGTGGTAGTGCCTAC	TGCACGAATGCAAACAGATATGAGATATG
A04	GTGGAAACTCTGTGGATTCACCTTCTC	CCTTTGTACATTAGATGAAAGTCCTGTGTTC
A04	TTTCTCTTCTGCAAGGCGGTAG	GCCGTAGACTCGTTGCCATTACC
A04	CTAATGTTTCCAGGAGGTACGCAA	AAGCAGGGAAATAAAAGAAATTTGTCAACAA
A04	ACATAAATCAATGGCTCTAATGTTTGGCA	GAATACCGTAAATACGCAGGGATTTTGT
A04	CACACACACACACAAGTACCTTATAGTT	TCGTGTATGGGTTCTTCACTTGTCC
A04	GGTTTTACTCAAAGGGAGGCTTTGAC	CACATCTTCAGGCGCAACATAAGG
A04	TGAAGAAGCAACTTTCTCGCTGTTTAC	GTGATGATGGCTCTTCTTCTTCTGAGA
A04	GAAAGATGAATCTCCACCGTTGATTACA	CGTCAACTTTAACGCCGTCAATG
A04	CAATAACCTCCTGAGATGAAGCGTG	GATCTCACCTTGGAAGACCCTTTACT
A04	CACCTACATTCAAAGGTGAGGATGAC	GGCGTTAATGAAAAGAACAGAGCTG
A04	CCTTGTAATGTCCGTCTCCATCTAACC	GTTTGGGAAACAGTATCTTGTTCCAAAGG
A04	GAACCACACGATTCGCAAGATGA	AGAACTTCTCGAAACAATCACACAAAACC
A04	TGCTCCTGCGTTTCTCATGAAAG	AAACACACTTAGATATCAAAGACCAACCAC
A04	CCTATGGTTGAGCTGCTTCTGAA	CTCCTATTGGTTCTTACCTTCATTCATGATT
A04	CCTCTAGACCATTTCAGAAAATCAGCTT	GATGGCTCCTTGGTGATTCCAAG
A04	CTTCTAACCCAAGTCACCAAGTCTG	GCTAGTAGCGTCTATCTTGACCAGAAC
A04	GGTTCTGATTTGAAGTGCTATGAGTGTG	GAGGGCTGTAGCTCCTGAAACC
A04	AACACCCGAGAAGAAATTAGTTAGTGACG	CCCTCTTGCTTCGATTTACTCGACT
A04	TGAACCATCTTCTTCTCTTCTAACCAAAGC	GGTTTGAAACAGAGCAGTAGTACTCATAA
A04	GCTTCTCTTTCCGTCATGGCTTC	CAAAAAGGTGTTGTTACATTTGCTTCTGA
A04	CTCCATGCCATCGGAGATGAATC	GAGGAGGAGGAAGCCTTCAATTTTC
A04	TCGACCTGTGAAAGACAATTCGTC	CATCCATTTATATCCTCCAGATTTTGCGG
A04	GGAAGCTGCGATCGTAGAGTTAT	TAGTGGTGGACCTGTAATACTACTATTGGG
A04	ATCAGCAGCAGAAGCTTCAACGTA	CGATCATTTCTAAAGAAAGAGAGATGGGTTG
A04	AGATTGTCCAGTGCTAGGGTTACATAT	AAGATTTACGGAGCTGTTCTTGAG
A04	GCTGATAAAATCTTGCGACTGCAAA	AGCCAGTACTTTGGACAGAGGATT
A04	CCGGAGAGTTACGGACTTACAAC	ACGAACCAATACGTATGGTGGAATGG
A04	TCTCTCCGTCTTTTCGTTGTTTCTCC	AGAGGATAAACGGTCTATACGTGTCAC
A04	TTTTTGTATTTTCGCAACTCAAGGGAAA	GGAAAAAGTGCACAAAAAGCTCTGTT
A04	AATGATCCGAGGTGGAATGCAAT	GTCTCGAAATGAGCATACAACGTCG
A04	CTGTTGAAGCACATATGGATTTCTGGT	CCTTGTAACCAGTTTCTTTACCAGGAG

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A05	GATTGCAAATTTTGATTATTTTCGTGTGCTT	TATCTGCTATCTGAGGCAGGACTTAAC
A05	CATCCATGATCTTGTCTCAACACAAC	GGAAGAAGGCAGTTTTTGATTTCCTCC
A05	CGGGAGTTTTGTTGCTTGGTTG	AGGTTTGCAAACAACATATCGTCTTGA
A05	GCGACCCAACCGAAGAAATAGTAT	GATAACCTTGAGGAACAGATGTCCAG
A05	GCCTGGAATGGGACAGTTCTACT	AATGAAAGGTGTTTAAAAATAGCAACTGCTC
A05	ATCTGCTACACGAGTTGTAAATAGTCCA	TTCAGGAACCTCGTTAATTGTCTATGATCCC
A05	CCCTCTCCTTCCAGAAGCAAACC	GGTGAGGTCCAGACGAGAAAGAA
A05	CGTCTCTGTGAGAGGCCTTTTAG	GTATGAAGAGCTTTCTGAGGGACAAC
A05	TACTTCCAGCTCCGTAAATATCTCTCTCT	GAGAAGTTTCAAGGTACTTTTTAAAGGGTTG
A05	CTGTCTGTTGTTGGATCCCAAGAA	TAATATACACATTCAACAGCGTCACTCAAA
A05	CAATGTCTACGGCGAGTGGATTA	CCCTACTTGTTTTGTTTGGTAACTGTGA
A05	CTCTCTTAGTGGCATCTGGCAAA	TGAAGCGAGAGACGTTAAAGCTGG
A05	GGCCCTAAGCTTTTTAGCGAGTT	CTCTGAAAACACAATACTTCAAAACGTCAAT
A05	TGTTAATGAATGAGCCTGAGAAAGTGAA	TACTCAACTTGGTAGAGACGACCTTC
A05	AAGCAGAGATGAAGTTTCAAACAGAGAA	CTAAACTTTTCAGGCCTTCCAACTGC
A05	GGAGCAGTCTGTTACATGCAGAC	TCTTCCCAACTGTGATCGATGC
A05	CTGCACCGTTTACAATAATGATATCACCC	AAACTATCCAAGCAGTGGCTCTTC
A05	CGGTGATATTAGTGAGATAACAAGGCAC	GTTAAGACCGGACGATGATCTCATGT
A05	GCATTAACAAAACCTGAAAGAAGGTCTCTA	CATCGTCAAGGAACTTTTAGATGAGCT
A05	GCAGCTGTTCCACCTGTAAACAC	TGACTTTGGGTAGCTAGCTTCTTTGA
A05	AAGTTTCCGTTGCTAGATAAGAAGCTTA	CTCCTCGAATCTGTTACCTTAGCACT
A05	CCGGGACACCAAGTATCTGATTA	CGTATTTGAGTGAGCCGCTTTGAG
A05	GATGATGAACAAGCTGAGGTCTCAA	TCTACTATTGACGGTTCTCCTTTTCTGAT
A05	AAAGGAGCAAATGGTTTGAGACAGTAA	TTGGATTGTAGAACTAAACGAGCAAGAAG
A05	GGCAACACTGGCATATCGAGAAT	GACGAACGAATAGGAAGACAAAGAGATTC
A05	CCATGGACTATTAAGGCAAATCACGTT	TTGATTCATGACTCTTGTTTTTGTACAGGA
A05	GGACCGGAACCTCTGGAAGAAAAA	ACCCTTGTGATAAGCTAGATCTGGATTT
A05	TATATGGACCTTCAACAACAATCAAGCAT	ACTCCAGTTATAGGACCATAGATTTTGGAT
A05	TGCAGCTGTGAGGTTTCGTTG	TCGTCCGCTCCTTTTGGTTCC
A05	CTTTGCTCGAACACTCTCCGTAA	CGAAACTAAAACACTTAGGCAACCTTAG
A05	GAGAGGATCAAACCATGTAACCATAAACTG	GTTGAAGTAGTCCGATTTCAAATCTTCACA
A05	ACCATGTAATGCAGAAGCCATGAA	CATGATGATGTATCCTGAAGCTTTCAACA
A05	CGTTCGTATAACAGAATCGTCATCGTT	GGAAAGGGAGGTAAGGATTCGAGAG
A05	CGAGCATCCGTTATCCACAGTTA	TGCAACCTGTAATATCAACCTCATAACTTA

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A05	TGTGGTTAGATCAGAAGGGTCACAG	CAATCCATTAGCTAATCTTGCCCTTAGATC
A05	ACAAGTTATGCAACACACTTGCATCT	ATGTGATGATGATAGTCTTCGGACTTTAACA
A05	AAACTAAAACACTTCTTGAAAGCAATGCTT	GCCTCGCTAACGATCATGAACAG
A05	GGAGGCACTTCACTGTCAGTACA	AAATCACCTTGAATCTTGGGAGCTTG
A05	CCTGAGAAAGCAAATGCAACAGAA	CTCAACAAAGACCAATCTAGCACTAGAGT
A05	TTCCAAACTCTCCGGAATAACAAACTC	TCACATGATCCTGATGCGTCAAG
A05	GGCAGAGTTTGAGAAAAGCGTTG	ACGCCTTGAAAGTTGTAATCAGACAAC
A05	GCTCACTTTACATGCAGAGTTACGC	TGTTGTTTGTGTCTTTTGTTTTAGTTGACTG
A05	GTGCAAGGCTTAGATCATTTGGTTG	ACTCTCAGATAAAGTGTTTTGCTGCTC
A05	CCGAGAGACGCTCTAAGCTTTTA	GTCTAAACAAGAACATGAGTTACCCTGAG
A05	TCTTCACCCTCACTTGACCGATAC	CACATCTCGCTTCTCTTCTTCCTC
A05	GCGATCAACACACTCTTCGTCTC	GAACCCATGACTCGAGAACGTTG
A05	ACAGCTTTTGTCGCGGTCTC	CTAAACCCTAGAGCTTAAAAACCTCCAAG
A05	CGGTTACATATAAATCGCTTTGTAAAGGCT	GACTCAAACCTTCATAAGCATCCTTGTTGT
A06	GTACCAATCCTCAAACCTGCCTGATC	TGAAGCTGAACCTCATCCCTATAGAGA
A06	GGTCAAGCAAGAGAGTGTTAGTTCT	GCCATATGCCAATCACCTGTGAATC
A06	CAAGCTTTGATCTTTCAAGTAACTCAAGTT	GATTCAGCAACGAGTCCTTTGC
A06	GTCTGAACAACCAGTTCCAATAGAAATGC	GATATCCAGATTTTCATCTCCTAAACTCAGTC
A06	CTCCTCCTCTATTAGTAAGTCCTGAGTG	CTCAGCTTTGTTTTCTTTGTATAGGTTCTGT
A06	CCTGTAAACCAGCTCAAGAAGCAC	GCGCTTTCTTTCCCTTCATGATGATTGT
A06	GTGTTGTTCTGCAGAGCTGTTATAA	CTCAAGTCTCTGGAAGCTGCAAC
A06	TGCTCTTTGAGCAATCTCAGCTC	GTGACTAATAAAGGTTGTATGGTGTGTCC
A06	TTCCCATACCCAGAAACCCAATGC	CCTCTCTTATAGGGTTTACTCTTCCCTG
A06	GTCTCAAGGACGAAGGCAACAC	GCCTTCCAGTAGCCAAAAACATG
A06	TAACAAGATTCTCCACCATCTTAGGGTT	TGATGATCAGCAAACCTTGTGATA
A06	ATGACCATAGACAAGGGCATCATTACA	CCGTCTTATTACAATTTATGTTTCGTGTGTT
A06	GGGAGCTTTCTGGAGACTTCAAT	CTTTGCCGCTAACACACTGTTCT
A06	TTAACATGACCAAGCAAGGAGACAT	AAACAAAGGCAACGTATTTGCTTCAA
A06	CCTTGACCAATTCACGGAGCTAT	GTTTGAATCGACCGGTTAAAAGGGT
A06	AGCTTTAGTAGAAACAGGGAGTCACTG	CCTCCTTGTAACACCTTTGGTC
A06	AAGATGATGATGATGGATATGGAGATCCTT	TATGTAAACGGAGGAGCCAAGGAAG
A06	CACACAAGAAATATCACAAGCCATCATTC	TCTCGTTCCTCTTGTTCCAGTTTTCT
A06	GTAAGTCTCCCTCCAATGGATTGTT	CAAGACTGGGTAAACAACCTCTACGAAG
A06	AATCCAACGTAGCCAACACCATC	GGACAAAGAGTTTATCAACACGGTTATGT

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A06	TGCTTCGTGTCATCTCCATGAGT	GATGATTGTACAAGGTATATGTGGTCGATA
A06	CTCCAAAGTCAACCGGAAGCGAAAC	AATAATCCCTTGAGCAAAACACTCCTC
A06	GGTGCGCTCTAGACGAATCTTGT	TCCTCCAGTCATGATTCATGTTTTGATTG
A06	CACCAATTATGATGACATGAAGTATGCTGT	GGAGCTTTCGTATTTCTTAACCTGCATATG
A06	AGCAATGTTTCATGGGAACCTCTT	TAGCTGGTGCAAGTACAAAACCAA
A06	CCTCTTTGCTGCCTCCATATAACAT	GGCGTAAGCTTCTTTTGTTCGAATGC
A06	CGTCATATGGAAGTAGTCATGCTTTCA	GGTAGGCATGACCAGATGTGTGC
A06	GGACATGAGATTACGGTTTGGTTCT	ACCGTTCTCTTCATGTATCTCCGATG
A06	CAGGAGGTTGGTAATTTTGTGTTAGAACG	CAACACCACATCCAACATCCAAGA
A06	TTCAGCTGCTCTAGGAACAGATGG	TAATGACCTGTAGAGATGACAGTGGTC
A06	TGATAGCAAAATACTGTATCCAAGCGAAA	TTTGGCTATTTGAGCAGAAAGATCTGAG
A06	TTTATGCAGCCGAGCTAACCATT	TCAACGAAGCAACAACGGTTTTG
A06	CTTCAGGAGATCTTTGATGCAGATTGG	AACACATCTATGTAGACTAAGGTTTTGGACA
A06	GTGTGTGATGTCACTAGGCGATA	TGGAGGTTTCTCTCGAGCTCTTC
A06	CCTCCTTATTTCTTTTCATTCTTGCCTCAT	CATATGGGTGTATATGCTAAACAGGGAA
A06	CTGAAGGTTGAGATGGTTTCCGAG	GATCGACAGAGGAAGTAGCATCATGC
A06	CTTCCCTTTTTAGTCCCGTCATTCTC	GAGGAAACAAAGGAGTATTCGCTGATT
A06	CATTTGGATGAAAGTTAGCTGCCAAC	ACCCTACGCCTTAAGACCTAATATCC
A06	AAACCCTAAACAGAGAGGAGGAAATGG	CTCTGAACTTTACAGTGGATTCAGCAT
A06	GCAGGAACAGCTGTTATTAGCTTGA	ACTTCTGCTGTGACAGAGAAAGGG
A06	CCTTCGATGCAGCCTTTGATCAT	ACGTCTCTCTCGTCCTCAACAAA
A06	GCGTCAACTTTAGCAACCAACAG	GCCTAGAGGTCGTCCTCCTAAGG
A06	GCTACCTCGAGCTGTGCTTTAAC	AAGATGGTTGATGAAGAGCTTGAGAAG
A06	ACACGAATACTACAGCCATGCTTG	TTTTGTATCTGAGCATCTTTCTTCATTGCA
A07	TTATAGTCACTCCTAAAGAACACCAACAACC	TCTGGATTCTTTTTTCATATTTTGAGGCAT
A07	AGATGGTTCACAACGTTTGTTCCT	CCCAGAGAAACCGTCGTTTCAAG
A07	CGCATTCGTAGGCAGGAAGATTC	AGTTCATAAGCCCTGTGTGTTTCTCA
A07	TCTCAAGATCAAGTTTCTCTTTCACTTCTCC	AACTAAAGAGAAGGCTAAGGAAACGCTT
A07	CAC TTGTTGTAAAGCCAATTCATGGAA	ACACAGCCTAAGAAACACAAAATAGTCTTAA
A07	AGGAGTCAGTCTCATTTGGGTACATG	GATTCTGTCTGCGCATTTTCTCTCC
A07	TTCTTTTGCAGTTCCAAATCGAAATCT	CTGAGAAAGATAAACGAGTGTACCTGAG
A07	ACTGGAGGAGCTAAAGTGTTGT	CTTTAAACTCAAATCCGTTGACCAGAAAT
A07	GGTATGGAAGAGCAGGTGATGAA	GAGTGATTTTTATGATTCTGTCTCTCCTCAT
A07	CCCAAGCATGTCTCGTAATAGCT	CTGAGGAAGTGAGAGGACAAGAGAACTA

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A07	CAAGAGCTCGGGATATCTAATGAAGTC	CCAATTATGTGTTAGGAACAGAAGACAAAGT
A07	GGACTCGCTCGATCTGAGGAG	GGCGCTCGCAAAGATCTTAGC
A07	AGAAATGCTCCTCAGGTGTCAAGA	CTCAAGTTTTTCCGGTGGAAGAAGA
A07	TTCTCAACATTGCTTTGTGATTGAGGT	CTTCGATTGCCTAAAACTATCAAAGATTTG
A07	GCTAAATGTAGCATGCGACAGATGG	AAAACACTTGTAGCCAAATTCGTAGCT
A07	TGTGAAAGGAATCACTACGGCTTC	CATGTCTGCAATCTCTGAAAAGTGTTCA
A07	TATCTTGTCTTAAGCATAGCTTCCGATTCA	CTGATACAAAGTTGAAATTTACTACGGCTTA
A07	CAGTAATGATTTCAATAGCACTAGTTGGGTT	AGAAAATTCAATGGCCTTAAGGAGTTCAA
A07	GTTGGAGCTTCACACACCAAAACA	GGATCACTTGGAGCTTTGGCAAC
A07	GGAGAGCGGTGTTGATACTGACG	CCTCACCTACTAGTAAGGTCCACTG
A07	AGACCCGTTGATGCTTGAAAGTC	GGGTACACATTCCTTTCTCACTTGATTTTT
A07	TCTTTAGCATCATCAAGAGACACAACAG	CTCTCTCGTTGTAGAGTTCTCACTCTC
A07	GTCCAGTAACTTGTGGAGACGAAT	ATCATTAACCAATTAACGCAAAACACATGAG
A07	CGAAGAGCAGACCTAGAAACGTCT	CAAACACTCGTCAACAACGCTTC
A07	AGGCTCGTAATCATCATAATCAAGAGCT	TGTGGACCGACTTCTTAGGGTTG
A07	CCCATGGATGAGCAAATTTCTCATTACC	GAGAACTGTTTCGAGAGGACTTTACTCG
A07	CGTATAACATTTCTCTCCTTACACCCGTAC	CAAGGCTCCCATCTTTTCAGGTTT
A07	CTCGCAATTTCTATCTCTTTGGCTTT	CCTGTCAAGCCCTGTGAAAAAGAA
A07	TGAGATAGTCACAGGATCATCGGTTG	CGCCTTCTTCGATCGTTCCCTTG
A07	CTCTCTAAGCTAACCGACAGCTTC	CTCCAAACCAACGGATCCAACCTT
A07	TCTACCCATACTTTCCAAATCAAAAGTCAGG	GTTTACGCTGGATAGTGTTGGAGAC
A07	GTCGACACGCTGTATGATCAGAT	TGCCTTGCATAGAGGATTTTGTGTG
A07	CACGATGGACAGGAACCTGTAGA	CGATCTGATAAGCATTTTCACGCTTC
A07	TGAGCTTCATACCTCATCTCCTTGAA	CTGAATAGTGCTTTGGTTAATTTGTATGCAA
A07	AACCATCACACCTTGACTGCATC	GGAATAGCTGAACTAATTGCTCTTGAGATAT
A07	AGAGGTAGTGGGTGTGAGAAAAGTT	TTGCATACTTTGCATATGTAAAACCCTTTCC
A07	TACGGTCTAATGCCTGAAACCTTCC	AACCCTTTCTTGGGAAAGCATTGA
A07	TGGTTCAATTTGGTGGTGAGGTTG	CCAGAAGCTTGTGGTGATAGATTTG
A07	GTAGCGGCAGCAACACCACTATC	GGAGATCCCATCTCAGTACAAAGCC
A07	AGTCTTCTTTGCGTATGGCTAATGTT	AAGATCCAGAGAGTATAGACTTCAGAGACA
A07	CGGGTTCCAATCACTGACCAATA	AGGAGAAAACCTTATCTGGACTATGTCATAA
A07	AAAAATCACGTTTCAATTTATTATCAAACGCAT	CGTACATGAGTTATCAAACCTTCGCATGAG
A08	AAAAACGTAGGCTCGGTTAAAACACG	TGCTTGGCCTCCTTAACCAATTATCT
A08	GAATCTGAACCGTCCGGTAGAAC	CCTCCGTCTCCATCTCCGATAGC

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A08	CCAAGGCGGTTCTACTTATTCGGG	TGACTAAACTTCTCAGACACAACATTGAAG
A08	TAGCAGCAAAGGAACCTTCTAAATCAAGTA	ACAGTGTCAAACCTTTTAAAGTCCCTC
A08	AGTTGAGAATGTCTGGAAGTTATCATGATCC	AGACTCTGTAGCACGAGCATCTG
A08	TTATTCTTAACAAATCATTTACTGCACAAAA	TTTCAAATCAGTACGAATCAAATAGCGAGTATAA
A08	GTTCCCTCGCTTTGCTTTCTTCAGT	AAATACTCCATGTACTCCTCTTCCAGAC
A08	CAATTACCATAAATGTCAACCTTTTGGCTT	ACAGATCTTGAGATTTTGGAGATAAGTCAAT
A08	CTCTCTTATGCCCTAACCTTTCTTCGA	GAGTCAGAGGAAGTGATCATGGTAGG
A08	TAAGTAGACTTGTGGGCGTGCTATAA	TGGTTCATCCTGGATTGCATCAAG
A08	GAAATCTGAACAGCTAATAGTATGGTGACAC	GTAAACTACGTGCAATGGACTTGTTGA
A08	CAATTTTCATCCCTCGTGATCAAAAGTG	GCGTCAACTACTGTAGAGATTACAGAGC
A08	GGGCTAAACTCAAACTCATGATCAAT	GGATGTAGGTTTTTCGGGCAGATG
A08	ACCTTGCTTCCACTTATTTCTTTACAACCTAG	ATTAGCAAAGTGAAGGAAGAGATTTCAGAAAC
A08	TGTTCTCACATTTGTGTGAACCTGTA	TTGCTTTCTTGTTGTTGTTATTCATCTT
A08	TATGAAGGAGAAAGGCTGAACCTATGAT	CGGACTGATTTAGTCTCTCGCAAC
A08	CGCTAAGGATTTTGAGTTCTTCCAACCT	CCATCGAAAAGGTAATTGATGAATCTATCCT
A08	TACAAATAACTTTCATCTGCTGCGGTAAT	GATTTTCAGGAACACTCACTGGACTG
A08	CATTGGATCGTTGCCGGAGATTAT	TGCGTCGATTGTTCTAATACATGATATCGC
A08	AAAACATTTGGATATGTATTCACATTACATTGGT	ACATCAACTGTATCATTATGAACATCTATGCTTC
A08	GCAAAGATGATCAACTACATGCCAA	AAGGGTGATACATTGTCTCTGATGTGA
A08	CCGGTAAAGAAAGAACCTCGTTGTT	TCTCGTAACTTTGATCTTGTTGATGTGAGT
A08	ATCATATTTGGTGACACACAAATGACCG	TGAGTCCGGGAATGTCAGATACTC
A08	TGTGATATCAAGACCTGCAAAATCGAT	TTTTTGTGCAATATAGGTGGTAGAGAACTTA
A08	TCCCAAAGAGATCTTAGCCATAGAGTA	CCAAAGCATTTCTTCATCAAGTTCAGAT
A08	GCGTCGAGTATACCGTACCAGTC	TGATCTGAATGTTATGTAAAGGAGGCATC
A08	CACCAAGGCTGCAAAGGTAAAT	TCTTAAATCTTCAGCAAACCTTCAACCCTAT
A08	CCTAGAGTTAAAGTGGTGACACTTC	GAGAAGTAAGTGCACTCCACTACAAGC
A08	CTTTTAAATGATCTTGGAACCTGAGCAAC	GGACCGGTAGATTAAATGTCTGAATGTTTTAA
A08	GTTAATTTAACACCCAATTACAGCCACAA	TAACGCGTTACCATTTTTGAACAAGTGT
A08	AGGGTCACTTGTAATCTATATGCCTCTT	TGGTAGAAGATCACAAGTGAATACAAGGC
A08	TACAGCCATGAACTTTGCCCTTG	TTTTTGTGCAAACCGATTTTCATTTAATCAA
A08	GAAGCTCGTCGAAGAAAGTATCCAT	GGGTTTTGATCGATTTCGGAAGCTC
A08	TGGGCTCTACCAACATACCACTC	CTCAGGAGACAAGAAAGAGACTCGTC
A08	GAAAGAGATTGCTGATGCCGAAAAG	AGGCAGAACATATTTGTCTGAAGAGAAGT
A08	TCACTAGTCATCAGGAAAACATCTCTGAG	AGATGAGAACATCCGTGCGTATTCG

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A08	TGTCTTTCCAAGGTCTTGGCATG	ACACGTCAATACGTTAGAAATTCGATTTAGT
A08	GCTGGTAATAGAAACGGTGCAAGAA	CTGTCAAAGAGCTGCAAAAATAGTAAACAC
A08	AAAAATCAAACCTTTCCAATCACTGCAT	GCTCGCGAGAGGCTTCTAAATCT
A08	GAAAAGATTTTCGTTACAGCCCAATCAC	CCAACATTAGAGGTGGTGTATTGGATTAAAG
A08	GCAAGCGAAGTAGAGATGGTCTC	GGTCTTCTAAATCTTGGTTTACACAAGCTC
A08	ATCTTGGTACATCGCTGGCAATT	TATGTTGTGTTTCATGCTATCCACGATG
A08	TATATAGCGTTGTCCAATGTTTTGGCTTCT	AGTATATGTTTCGAGCTCACTGTTGAATTG
A08	GCACTGTAAGCTCCCTCATGAAT	CATCACAGGACCAGCAGATGTAGA
A08	CAATAGCCTCCAAAACGTTATTTGGGT	CTATGAGGCATTTGATCAAACACATAGCA
A08	CCACATCAGCAAAGTTGTAAACGCA	CAAAGATCCACGAGATAACGCAAACC
A08	TCTTCCTCACTGCAACCATGAGT	TTTTTCAGGTGTTGCCTCTTTTCAGC
A08	CCACCATAGGTTGAGGAAATAGAGAGC	AGTATGAAGTAAATGCACACAGATAGTTGGT
A08	AACGGCTCTAGCTTTTGAAAACGA	CGACACGCATTGCTGCTTTAAGG
A09	AGTTTTTTGATTTTGCTTCGGCTGAAA	CAAGGCTTTCCAGAAGAAGGACTC
A09	TGATGGCGATAAACTCTGCAG	GTCCTTTAACCTTCTGTGGCAGAAC
A09	CGCGAGCTTTGATGGGAGTTTAT	CAAGCGCACATGCAGTTGATTAC
A09	GGACTTGAGGCTTGCAGCTATCT	GACCAAACCTTGTCTGTCACTC
A09	CTTGTCTTGTGCTTTAACAGGCTTG	GGTTGTAAACTGAGAGGAGCCTTTC
A09	CCAATAATCCAGCAAGTTAGTTACCGAA	AAAAAGGGAAGTGAATGTGTGTCTCTC
A09	AACCTCTTGATGATGTGTTTCAGGTTT	TTCTTGCCGAGAAAGTCAACGAT
A09	CGGATCCATTTCTATTTTGGTCAGCTC	TGCTCAGTTATTTTCAGAAATTCGTTGACT
A09	TCACATAATGTGCAAGGCTGGTTA	ATACAGTTTCACAGAATGTACAATCTGCTA
A09	GGAAAAGAAACCTTTAGTAGAGGAACAAGAG	TTCCGGTTGCGTGATATCTCTGA
A09	GACCCGAGACAGAACCATTGTTG	AAATCTTCTGTTGAAAAGATTCCAGATTGCA
A09	GGTTAAAGAAGCTAGGTGCTCTCAC	CAACCACAGGGACTTGATACTCGT
A09	CTGAAGCACAGTGGATGTGAGAA	CATTTCTTGCTTCCCTCGTCATTACT
A09	TAACATTGTCTTGAATCCAAGAAACCGAA	CTCATCTCTCAGTCATAGCAGGAATAAACT
A09	CGGCACTGGAGAACAACATCATT	AGCATAGAAAGATGAGATCAAGATTGTCCA
A09	TGAAGAGGATCTGATGGAAAACCTTATTCCT	CAATAGACGCCAAGTTGATTTCTTCCC
A09	TGGTGTATGATGTCAGGATTTCTTCCC	TACAAGCTGTTTGTAGTAACTTGTCGTG
A09	GCTGCTTCCATGGCGAAGATG	AACAAACCAAACATCACCAATACATCACA
A09	TTCTTTTCAGCGTCATTTACATTCTCTC	TCCAACATATGCCAAACGAATAAGAACAAG
A09	GCTATTGAACTCTTGCTCATCATCAATCA	AGACGGTGATTGGTTTGTCTCAGC
A09	TAAGCTGACGTGGCTAACACACC	GATTCATCGATCGGACGATACGAA

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A09	CTCACGTTATCCGACAAGGACAC	CGAACCGCAAGCTTTCAAAAGAGC
A09	TTGCCATTTGGAATCCGCTAGAG	ATGCTTGTGTGTTCTAGTAATGACTTCCTTT
A09	CCCATGATCTTCACATCACAACATCA	TCTCTTAAAACCTTGAGAGTGAGAGAGAG
A09	ACAAGATCGGAGACTTGACATTGCT	CAGACCACTGTTCCCTCTAACTTGG
A09	CAGGTTCCCTATCTTCCAGCAACAA	AGAAGCTTGCAGTTGAAGTTACTAGACA
A09	CTTCGTTCTTATCTCTGCTTCGTGAA	TCCACCATTCACACTAAGATAGAGACAAA
A09	CTAAGCTCGAGATCTCTCTCCCTTG	GCTTTCCGGAGGAAGAACTTCCA
A09	TGAAAACCTGAGATGTTCCTTTCAGACA	CTCCACCGCATGTATCTTAGCTTTATTT
A09	AATAGGATAAAATCTCTCGGTTCCGGTTTT	TCATGAAATCATAATCTGGCATCATCTGATT
A09	GTGTCAACGATGGCTCCACTTAT	CGAGATCGGCTTTGTTGAGCTTTAA
A09	ACACTCATGTAACCTATGTAATTCATTGCAA	AGGACAGAAACAAAACAATGCTTTGAGG
A09	GGAAGGAGAGACGGTGACATTGG	GAGGGAATGAAGTGGGTGAAGATC
A09	GCAAGTCATATAAGCCGAGAACCTAGC	AAGATAAGAATATCCGAAGACTTGTGTTCTA
A09	TCATTCAACGCAGATTTGCTTTACGA	TCGAAGATCAATGTATCCGCAACAC
A09	GCCCTATCACGTGGCTACAATAG	TAACTTATATTTAAAAGCCCCAACCCCACTA
A09	TTTTCTCATTTGTCTTACCATGTTGGTCTG	TCAAAGAAGAAGTGGTGATAAAACAATCGAG
A09	CTCCATGCTTAATTCACTATGCTTCATTTT	CAGAGTAATGCTTAACTCTTTTCGCTCTC
A09	GCGAAGAAAACCTGCAATAATCTGGT	GTCTCTCTTTTTCTTTTTCTTTGTTTTGTG
A09	CCCGTGAAGCTGAAAAATATTGTTGAG	GTGGAGCCATCTTCTTGCAAAGA
A09	CTCAAGTCTCTAATGAGGAAGCTTAGACA	CAACGTCTCTCTCTCTTTGTGG
A09	GCTTGGAATTTAAGGAATTCAGATTTTCGCA	CTGTTTTTCAATACAATTTACAGCCATGGTTT
A09	GCATAGGACACCTCGTGTCTTTG	CCCTTAACGGAACAGAAACGGTTAGC
A09	CATGGTTCGGAGAAGAAGTCCAG	GTTATCAAGAACAATTACTTTGCAGGTGTG
A09	AAAATTGAGGGCTCGAAGGGAAT	GAAACTGATCTGCGCATAGGATT
A09	TCATCTCCAACCTTGGTGTTGA	AAGACACATGAATCAAACTTGCTTCTTTTA
A09	TAAGCTGTGGACCGTTGTATGCA	ATCAGGAACCCATGACACGCAATG
A09	TAGCCGAGATGAGTAGTGACTCTTTC	GATAGGTATCTTGTATGGTCTTGATGCAG
A09	GGGAAATAATCATTTCTAGGTAATCATGTGCGTA	TCGACAATCAATGGTCAATCAACTCTTC
A09	AACGCAAACTGTTTCACAATTGTCTG	GAAGAAGTTGATAATCTTATGCCTTTTGCTT
A09	CTGATCTCTCACCTTTCCCTTTCCCT	GTTACACACCGTTTTGAATGAGGG
A09	GCAAAGTGTCCTCAATTTATCACATCTAAAG	GATCTCAAGACTACTAGTTTTCGAAGACATTA
A09	CTAAGTTGAACCGTCTCGGTGATT	AAAAATGAGAGCCTTAAAGCATTAAGCCT
A09	CCCACTCAGTACAGAAGCATAGCT	GCAGTAGCCTGATGTGATCTGC
A09	TAGCAAGCTCCTCCGTAAGCTAA	AATAATGGTTGCTACATTCACATCAGAG

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A09	CCGATCATTAGAACAACCACGGATC	GCAGGGTGATCTTTCTTGGGTTTG
A09	ACTCAACGCCAATCAAGATGATCTT	GCTGAGGCTTCACTAAGCCAAGC
A09	GAGTAAAAGCGCTCCGTCTAGTA	TGATTTTAGGGTAAGCGTCCAGATTCC
A09	TCTCAAACGTCTTAATTTGTGACTGTT	AATTGACATAGTTTTATGGTGTGGTTTTTG
A09	CTGAAGTGCTCATCTTCATGTTTCGT	TCGAAAACAAGTTTTAGTATCTTCCCAAGAA
A09	CTCCTTTGACTTGTGTGTGTGAAGA	TCATCTTTACCTGCTTAGGAGGAGAAG
A09	ATTCACGTGTTGTTGAGAAATGTATACCT	CGAACAAGTCCCGGAACCTTGAGC
A09	AATCACCACCTAATCTCCTCTGTTTCGC	TTTTACCGTTCTAGTCAAAGGCTC
A09	AGCTTTGGAATGGCATTAGGCAC	ACCAATGAAAACAGTTAGCCACTTTAGTG
A09	CACTCAGAAGCAGTAACAGGTGTT	GATATAGGTGTGCCATCTTCTGCAC
A09	GGAGGACCACCTTTTGTACAGG	CTACACTCAGGAGCCTGAGAGAG
A09	ACAGAACTTGGGTTCTGGTCTTCT	ACTACACAAAAATGATAATTTTATGAGCAACTA
A09	CGGAAGCCATGGTCAAAGTTCAT	AAACTGTTGATTACCATTGCTTCTTTAGCA
A09	TCTCGTCTAGGATGCTTTATGCACT	GCCTAGCCAAGTGTTACACAAAAAA
A09	GATGAGACTAATGGTGTGTGTATATGAT	AACAATCTAACATCAGGTGGATGTGAAAG
A09	GCCGGTCTCCAAGTATTTTCGTGA	GTCCATGTGACCGATCGGTATAAAGG
A09	TTGTGTGTGTAGAGTGTATGCACTAGT	GCCAAGACGTCTCTATAATCTCTTGATATCT
A09	AAAGCGTTTATCTACTGCTTTTTGTGTTG	CAACTGCACAATAACCCAATCACAAC
A09	AAGGTTGATTTTCGCTCTGCTTAC	TGATACACCTGTCCACCAGACTTG
A09	GTCACAACCAACTCCCTCACTTC	CCCGTTATCACACATGAACCGAATC
A09	CTGTTGATGACTGGTGAACCAGTT	GCAGGCAAAAGCACTGTTCTTAAGG
A09	AATCTTGATTTTGAGATTGGAGTTTAGGGTT	CCGTCAAAGCTCTCTCCCTACTT
A09	TCAACATGCGTTTTCTCCTCTCTTT	GCAAAACAATCCAAATGATATTTTGAAGAA
A10	GAGACCTCGTATTCGACTTTGTGTT	CTCCTTTGTCTAAGGTTTGTTCAAAGCG
A10	TAGAAGAGACGGGACTCAGCTTC	TCCTTAACGTCTCGTACACTTCCTTAA
A10	GACCAAGACTTTGTAAAAATCGTCGAC	TTGACCAATGAAATATCCCGACCAATC
A10	CGTGAAGCTTCCCTTCTTGACAA	GAAGTGGACTCTTTCCCTTTGATACTCTTA
A10	TTGGTAATCCATCGGAATCTCCAAGT	CGTTTGACGGAAGCAAGAGACTG
A10	ACAACAAGATCTCACTAACCAAAAAATTGAAAAAA	TGACACCGTGGTTTGTCTCTCTG
A10	GTGATCAAAGGAGAAGAGCACGAGGAAG	AAGGAGAGAGAAAGCTTCAACAATTCAA
A10	GTACGAGCTCCACACCACAAGAA	CAGCTTCGTATCCTCTGTAGAAAACCTCT
A10	CTTGGAATCCAACATGAGATGCTTTA	TGCTCACAAGTCAGAAGATATCACGT
A10	CGTGAAGCTCGTTCCGAACTGTTTC	AATCGACTACATCTCGCATTTGGTTC
A10	AACTCCAGTACTTAACCTCAGTCTATGGTT	GCCTCTGAGAAGAAAGGAAGAGGATG

表 A.13 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
A10	CCCAAGCAACTTCCTATGGTTCAC	GCCTCATCTTCCGATGACTCTCAC
A10	CTATCTCAGGGTCGTAGAGAGCAT	CAGTTCTCCTTCTCCTGAGATCCAA
A10	AAGTTCTTGACTTGAGCCATAATCTGTT	GCAGCTGTACAATCCATCAACACTC
A10	AGCGTTGGAGATAAAGTCTTTAAAGTAAGGA	AGACAGCTCCCAACATGGTTTACG
A10	TGATAAGTAGCGGTGATTATCAAAGCTGT	ATCCAGAACAAAAGCGGCATGACAG
A10	TAACTTCCTTACCAGAAACACATCAACGG	CGACTATGTCATCACTCATGACTTGTC
A10	TGGATTCAGAGTCATACCCGTTGAT	GCAAGTTGTTTTTCAAAAGGGAAGTGAAC
A10	GTTGAGATGACAAGACCAAACTGTGG	TTGCTGAGATGATAAATACTTGGTATGCTA
A10	GCTAGAGATTAGCAAGTATTCCTGCTG	AAAAAGAGTGGGAGTGAATCCCTC
A10	ATTCTTAGTCTGCAACTTCGATTGGTC	GGAAAATCATTAAGTCTCTAGAGACCACTTCT
A10	GGAGCTGTTCCATGAGGACAAGA	CCTTCTTTTCAGTGGAAATGCAATTTGAGT
A10	TTCAATTGTCAAAATGGGTACATTTCTTGGG	GCAGGAAGCGATGTTTATATCACTTCAG
A10	GCCGAATCAACCGAGTCAACTAG	CGACGGCGAAATTCGAATCCTAC
A10	GATATATCATCACTATCAGCAGCTGTGAAC	GGGATGGACACGACTGTGATTCT
A10	AGTCTTGTGTAAGTCTGTTGACGATACT	CTCTCCCAAGAGCAACAACAACAACAACA
A10	CCTGGAGAGAACATGCACTGTTG	CTGTTGTGCGGTGAGGACTGATCT
A10	AGAAGCTGAAACGAATCGCTACTC	GTACTCTCTCCGGAGAGGTTGTTAG
A10	GGAGAGATCTGGCGATGAGTTGC	ACTACCGGACCAGCTAGAACTCT



A.14 龙眼 MNP 标记引物

龙眼 MNP 标记引物见表 A.14。

表 A.14 龙眼 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold1	CAGCTATACACTTGAGAGGCCTATTTTC	ATCTTGGTTTTGTATTGCTTTGATGTCTATT
scaffold1	TTTTTCATGGATATACATGTAACATCAGCTC	GAATTGTTTTTCCAAAACAAAATGTTGGAT
scaffold1	CTCATACAGTGATGACGTAGCCAAC	GTAAGGCTCGTCCCAATATGGTTG
scaffold1	TGGATTTACTAAAGGGCTGCACAC	AAGGATGAATTGTTTTGATGTGGGTGT
scaffold1	AAATTGCTTTCACCTATAACTTCGGAT	CTATCTGATTCTACCAAAACAGCAAGTAGTC
scaffold1	TGAGCCCAAATTGTAACTCCACTC	AGTGTAGCTATGGAATCAAAGAACAGATCT
scaffold1	AGTGGAATTTTGTATTTCCGAAGAGATGAA	AGTTGCTTATTGTTTTGGTAGTCTGGAG
scaffold1	AGCTGCAGAATACTATGACAGAAACAATA	AACCATTTATGCTAAGAATGATGTGTACCTT
scaffold1	AATGTTAGATTTTAATGCCTGCAATTTGGTA	ACTTATCATGTGCACTGCAGGAAATC

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold1	AAGATTAGGAGAGAATATACGGAACATCCAT	CTTATGGACAAATTGAGGATCTTGTTTCAGT
scaffold1	TTCTTTTTTACCTTTTTTGAGTTTGCGGAAC	ACCCTAAGAAGCCTTGCGTTTAATG
scaffold1	GAGCACAGTTTTAAAAAGCCCTTGAT	ACGGTTCAGTTGTTCAACCGTAT
scaffold2	TATCGCGACACAAGACTCACGAC	AACCTAGACTTTGATGATGAAAACCTGAGTA
scaffold2	ACAATTAGCAACCGCAAGGTAC	ACAGATTTAATCAATGCACACTAAGAGGAG
scaffold2	AATCCTAAAAAGCAAGCTTAAAGGGAA	GCTGGTGGACCATTCTTTTTCTC
scaffold2	GAATTAACTTTTGGTGTGAGATTCATTTTGCA	ACCAGAAGTTAATTTCTTACTACCATCTATATT
scaffold2	TCATTAGATGAACACAAACAATGAGGTCAA	TCGTTGTGGTGGTTGAGTCATTA
scaffold2	TCAATCAATTCTGACATTGGCTGATTTT	GGAGGCACTCACAGAAGTTATGGC
scaffold2	AATTTGTACTGGATCAAGTCGTAAGTC	CAGTACTTCATCCACGCATAAACACC
scaffold2	AAAGATGTTTGTACTGGGCAAGTCTT	CCATCTTGCTTTGCCGAAAGAGT
scaffold3	TCATCTAAACACTACATGTGCATTCAAATCTA	AACTATTCCATTATCAGTCGATTGCTTAATTTAA
scaffold3	TGTCATTTGAAAAAGTTAACAAGTTCAGCTT	AGAAGAAGAAGATTCAAGAGAACATTTGCAT
scaffold3	AAGAGAGAGAGAGGAATCATCCATCTCA	GGAGATGGCTTCACCTACTTCAAC
scaffold4	CACTGAATATGGTGGATGCATTCATGA	GCTGAAGCATGGATTAAATAATGAATCTCGA
scaffold4	AAAGGCGAGCATTATCTTCTTTTTCTTTTTTG	GGAAGGCCTAGCTAAAGTATCCTTCTG
scaffold4	AGGGTTACAAGAGTTGTTGAAGAGCT	AAGTGCACTTGGGTATAGATAAACTTATGAAATG
scaffold4	GTTTTTGGCAAAGGAGACCCAAG	CTAACAAAGGAATTAGTCACACATGATCCTA
scaffold4	TCAGTCTCTCTCTTATCTTGCAAGGAC	GTAGGAGTTGATTGTAGTGGTTTTGAATCT
scaffold4	ATGGACAACTTTTGTTTTACTACTAACCAAGG	CCCAACTAAAGCCTAGCTAACATAGTAGTT
scaffold4	TTTTTAGATGTGAGGACTCAAAGGATCAA	AGTTTTCACTCACATCAGCTGCTTC
scaffold5	AGAGACTTCTATGAGCATACAACCTAGCAG	ACATGCACTTGGATTGTGAGGAAATT
scaffold6	CATAAGCTTCGTGGCTGACAGAT	GGAAGAAAATTGTGTACCTCATTTGCTG
scaffold6	AGAAGAGATCTCAGAACTGGTTCCAG	CTTAACATCTTTTTTACCTGACAACCGTTTG
scaffold6	CCTATAAATCTTGCGTTGAACGAAATCTTT	GCAGGTGAAACAACCTTGATTAAACGTTAATGA
scaffold6	GAGAATTGCTAGACTTGAACAAGTCATGG	CTAAGGTTTACTTGAAGAAGTAGAAGCTGAA
scaffold6	GGGTGTCACATCTAGCTCTAACAGA	GGTGGTTAATGGACTGCAGACTTG
scaffold7	AATAAGTAAAATCAGGTGTGATAACACAGCCTA	ATGTTGTCTTTTGAAATAAAAGGATTAGAACATT
scaffold7	CCATGGAGACCCACCTACATCTT	ACCTTCCATCCTAAATATGAACAATGGAGA
scaffold8	TCCTAGCGCATTTGATGTCAAGTTTTAAAT	CCGAAGGACAACCCAAACAATTTAA
scaffold8	CGATTGAAGTAACAAGTGCCACCTAG	ACTCCGAAAGAAGAGTACAAGAAGCC
scaffold8	GCGGGAAGACTAACCGTATTTCAA	GGGCTTCTCAAAATTTCAACTGTTAATACAA
scaffold8	TTGTAGCTCTAAACCAATATCTCTTTAGTTGTGT	GTTTTTCGAGCTTTCTCTAGGTGAATTTGG
scaffold8	GAGAGTCAGAACCTTGTAAGGAAATCTT	CACAAGTCCTTTACAACAACATTAATCTGAA

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold9	ATGCATCAGTAAGAACTTGTGACATCATAT	AATTGCTAGACCAATAAAAAACCAAAAAGCTT
scaffold9	CTCAGTAGCCACACCTATTTTCACAC	TTTTTCCCAAGGTAGCTGTTATAAATTGACT
scaffold10	TTTGAATCAACTGACGGTGGATGTAG	AATTTAGACACATTGACATTCAAACATGCAT
scaffold11	ATCTGTGGAGATCCCTAACAAATGTCA	TTGAAACAGAGCAATCCCAAAAAGAAACA
scaffold11	TCCTGTGAGTTGTGACAAACACAG	TGAGTTTCTTTTGGATAACTAACACAGCTTT
scaffold11	GACTGACCTTCGCTGGGTATCC	GCCGCATCGAGTCAGAATTCTATAAGG
scaffold12	TGGATATCAAAAAGGCACCTTGAGATTGAC	ATTTTCACATCCCTGATGCAAACAAAT
scaffold14	GGCACCATTGATGGAGAGAAAAGAA	ACAGTAATTGCAAGAAGTCCTTCCTTCC
scaffold14	TTCTTTCCACGCGTACAATGAA	TGTCAAAGATGAATGAAAGATCGAGCAA
scaffold14	CCATCTAACGGAACCTTTCCAAGCAA	ACGAAAACAGAAAGAATGAAAGAAGTTGCA
scaffold14	CATCCAATCAGACCCTGATTTCTCTTG	TATGTTAGATAGACGCTTACCTGGGAATG
scaffold15	CCTTGTAACACCGGCAATAATCAA	GCTTCTAGGGTTTCTAACTTTTATACGGTA
scaffold15	TTTTTCGTACATTTTTATTCATAGATCACACGG	AATTGTTAGTAACTTCTAATAACCGCTTGACTT
scaffold15	TTTATGCAAACATATAGTGTGGAGGAAATGC	ATCCCAAAAGGCCCTTCTCCATTG
scaffold17	TCTCCATGAAAGCACCAAATTTTTAAAGACC	GAATAGCAATACTTGAATTCATTTGGGCTA
scaffold17	TCATTTGGCTAACAAATTATGTGAATGCTCG	CACACAAATGACAAGCATAAAATAGTAGCAT
scaffold18	ACAATGCCAAATGTGCCATTTGAA	AACAACAACCTTTTTGAGGTTAACAGACTAAC
scaffold18	AGAGCGCACTATGTCATATCAATACAGT	GAAGTCATGGGCAATAATGATCAAGTTCA
scaffold18	TCATTTTCAAAGACTTCAAATGTCACAATCTCA	ACCATTTCTAGAAATTTAACATCATATCTTCACTC
scaffold19	AAAATCAACCAAGTTCTACCGAGCTAG	CAATGGAACCTCTGTGTAGATGGCATG
scaffold19	CCAGAACTGCCTTGGGTAGATG	TTAAAAGCTCTTGGAGGGCAGAAAA
scaffold19	CCAGGAGAACATTTTCCATCAAACACA	CTGGAAGTGGAGCTGGTAATCCT
scaffold19	GGATAAACAACCAATTTCTGCATCACAG	CCCGTTGTACTGACCATGGTAGATAA
scaffold19	AAGATTGAATGAGGCAATTTTTGTGTGAT	CACAACAACGCTTTTATCAACTCTAACAGC
scaffold20	CCCTATAGGGTAAACTCATGTTTTTCAGAA	GGGATCATTAAGCTTTTACAGCTGTTCAAGT
scaffold20	ACGTCACCTCAACCTCTTTGAAAGGG	ACCACCGTCCACCATAAGAAGAG
scaffold20	GACGCAACATTCATCTTTGGAATTAATCAG	CAAAATCTGGACCTAATTAGATTACCACCTT
scaffold21	TCTGCCAACCATTAGTACTGCAAAA	CTTAATTTACAATGTGCCACAACCACTC
scaffold21	ATTTTTCTTATTTTTATCCGTTGAATAACTCCCA	GACGCTGACGCACTAAACCA
scaffold21	TATTACATGTGCTGATTGGCATAACAGTT	CGATTTGATTTGCTTGGATTTCGGTTC
scaffold21	TGGCTGAAAAGGAAGCTTGGAAA	CATTTATGAGAACTCATTCCTGCAAAAAA
scaffold22	TTCCACGTCCCATTCACAAAATA	ATACACACGAAATTTAATGCACCGAAAC
scaffold23	CTTAATCTCTCTCACACCCACAACTT	TGCGATTGCAAGTTCAAATATCACAAATTAA
scaffold23	GCATGTGGACTGCCTTCAATTTCT	TGCTTTGGATTACAATTTGTAAATTGTGCTT

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold23	GAGGGACGAGAGTCTCCAATTCC	CACTCTCATTTCTCTCAGCGAACAT
scaffold24	AAACTGAGAGAGAGAGATCCACACAC	CGTAGGTCTGCATTTTAGGTAATTTTTCAC
scaffold24	GCACTCACACTTTCTCATTTATGCATCT	GTTTGCGTCTTGTCTTTTGAAAGGTAATC
scaffold24	TTCCATCGTCCACAGGTTTGTAATA	CAACCAGATAGATTCCACTGTTTTTCTGG
scaffold26	TCAAGAAATCATCAGAGTCAATCAGGATGA	ATCTGATGTAAATAAGTGCTTTGTCAGTGAT
scaffold26	AATCTTCAAGAAAAAGATCAGACACTACTTTTA	TCTTTGTAGGTGAGTTGCAACTTGTAATC
scaffold26	CTACTTGCTTTTGTGAATTCAACTCACAA	GTCATTAACAGCGCTGAACTCTTTTTTAATTT
scaffold26	AAAATCCATTGACATGTTTGCTGCAA	ATCTTGGTCATTTCTATGTTCTTGCTC
scaffold26	ACACATTGTTGGATAGCTTTAAAATCCAAAAT	GACGTAGATAACATTAGCAAGGCCAA
scaffold27	CCCTACTGACTTTCATTTGTTCCCAA	GGTGAATTAGGGCCATCCAATTTTGA
scaffold27	AAACTGGGTGTCATGTCCAGATAACA	TACAGCACTTTAGTCTTTTTCATATTCGAA
scaffold27	ACAACCTACAAAAATCAAGAGTCAATGGTCG	AATGTCTTGAAGAACAGTATCGTATGGAGA
scaffold29	ATTGAAAACCTACAACACTTTCACACACA	ATAGATGTTGCGCAAGCCTTGTT
scaffold29	CAAAACGTCTGGGTTTACAAGTTCAT	GCCATTGTAGGGAAGCTATAAGAGCTAA
scaffold29	ATATTCCTCCATAGAAATCCCTAGCAGAAT	CTGACATTCGCGTATATGGATACCTCC
scaffold29	CAGCTCACCCAACTCAAGAGAGA	AGTGGAGGTTTTTGGAAAAGCTTTGG
scaffold29	GAGTAACCAGTACAATATTGAAGCTTTTCGT	ATACATATCTTATGCGGCTTGATGCAT
scaffold32	AGTTGGTGCTGCTGTGGAATA	CGTGGAGTTGGCTCCTTCAAA
scaffold32	GTACAACATGACCCATTATCTCTATTTGCTC	ATCTTACTGTGACGTATTGAACCTGAATGTT
scaffold32	GGCACTCTGTCCCAATCAAGTTC	TGCACTTGTGAGGTCAACATAAAGAC
scaffold33	TCAAAACCACATCGTTTTGATGTTGTG	GTAAAATCTTCCACTAACCAAAGTCATCGT
scaffold33	CAGAGTTCGTCATCGGGTATATGTTA	GAGACAGTTGAAGCAATGACAGTTCC
scaffold33	GATGGCAGAATGTATGGTTCCATT	CGCAAAAATTGACCAACTTATTGGCAT
scaffold34	CAACTGCTACAACGGTCTGTAAAGT	GACATGTTTGCTTCAATTTGAGGTACTTAATT
scaffold34	TTTGATGACATGTTGAACCATTTTCATTCAA	TGGAATGGTCAACACTGAAAGCTG
scaffold36	AAATGTTACCATTGCTCCTCTGTACAC	TCCTTAGGATCCAATCCCTTTGGAAC
scaffold36	GTGGAAAAATATAACAGAACTTTGAACACAC	ATCCTAACTATTTCTTCAACCAATTGCCTA
scaffold37	GGAATGGTCGGCAAATAGTTTAGCC	CTGGTGCAGTGATCCACATCTAC
scaffold38	ATGATATGATGTTATTGGATTGGACGTGTA	AACAAATGGGTAAAGATTGTTTTCTTCTGGG
scaffold38	ATGTAAAATCAAAATATTAACCTGCCTACTTGACA	CCCAGAAAGAGAAACCAAAATGATCCG
scaffold38	GCCACGCCCACTCTTGTTATTATT	AAAAATTGAAAGAAAGTTGGGCAAAGAAGA
scaffold38	GCCAGTATTAGACCATGTTTGATCACG	CACAGTAAGAGATGCAATCAGGTGAC
scaffold38	GCATCTAAAAGACCGGACCACAAA	CGGAGTCAGACAGAGAAGAGTCTCT
scaffold38	TGCTTGATCTCAGTTAAGCTTAAAATTCAT	GATGCTTACCCTTAGTGGCGAATT

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold39	GTATCTCAACTGGGTCACCCAATA	TCTCTGACTTGTGTTTATGTTTTTGCAC
scaffold39	GGCATGGACCCAATGGATTTTTTT	GCAGATAAGTATGAGACAACCTCCGTTTTCT
scaffold40	CATATAAACGTAACAACATCAACAAGACGTT	TGGTGCTGTTTTGTTTTTGGTTTTTCAG
scaffold40	TAAATGAGGGAAAAAGGGTTTCGAACCACAG	GTATGTCTGCCAGTCTATGTTGGTG
scaffold40	TTTTTCCCAAATTCTATCGATTTACCCTGTT	GGAGCAAAACAGCTATCAGAATTGGG
scaffold41	CTGTGCCAAGTTTGGTTGTGAGA	CTGACAAACTCAGAATCATCAAGCTTGG
scaffold41	TGTCAGCAGTTGAGTCAGCAATC	TGTGAAAAGTGTTCATACTTGGCCTATC
scaffold41	GTCCCTCGCTACAGATAGAAATCCA	ACAACAATATTTCAAGCATAGTTGTTCATGTT
scaffold42	AATAGAAAACATTATTGGAAAAGCACTTGACAAT	TCCAAACATTAAACGTTTTTCTAGAACTCGA
scaffold42	TTCTTCTCCTTCAAGATCTCTACCCATT	CAAAACTGAAAATCAACAATCTGGTTTTCGA
scaffold43	GACCGATAATGAGTTTAATATTGACTAAGTTGCT	GCAACTTACAGCAGACAAAACGTGG
scaffold43	TGAATAAATCACAATAGAGTGATAGACACGTTTT	AAGTATGGATTATATTTAGTTTGTGCGATTGTA
scaffold44	CAAGGTTTCGTTTCCACTCCTTCAC	GTACAGGTCCCTGGTTACGAACC
scaffold44	TGGAAATTTGCTTTTTTCCATAATAGACTGCA	TTTGAGAGGGTTGGCTCTAATTTTAATCATA
scaffold45	GCCTTGCGGTAAAAAGTTAAACACCC	CAATGTTCAAATAGCAGGAAACAAATCTCAA
scaffold45	AACAGTTGCATCATATTATTGAGACGTAGTT	GGTGGGTAGAATTGCATGCCATC
scaffold45	AATAAATTCAACACACACGACCAAAATAATATT	TGCATTTACATGATCTCCTCTTCAACCA
scaffold45	GCTTCACGTCAACATCATTTAGCCA	GATAAATAGTGGATGTCATCGAGGCTTAGG
scaffold46	AGAAAGTTAAGTGTTTTGTTCCTCCTTT	GGTTAATTTAATTGCCTGTGTTGCAGAAG
scaffold46	AAAGTATCTGTACCAAGCCACAGATGA	GTCAAAATAACTTACAGACACTCAGGTCTC
scaffold46	TGCATACATCATTCATTAAGTTTGTGTGTGT	GGATTACTAGTTTCTTTTCATAGCACACCAAG
scaffold47	ATTGGTTTAGTTAGTACTGCAGTGTTGTC	AAGATCATTCGAGCTGCAAGATCAA
scaffold48	GCATTCCCTTGTGACTTGCATTGCA	GGAGAGATGTTTCAGACTTTACCCTTAAATA
scaffold48	CAAAAGCATCGAGAGCTTCACATAACT	TGTCTCATCTACTGCTATCCAAATTCCTC
scaffold48	GGGCACATCTACTTATAAGTCAATGGTT	AGGAAGGGTAGGGTGAGAGACTAC
scaffold48	AATGCACTTAAGTTGGCAACTTGAATA	CCATCTGGAGAAAATCACGTAGTAAGGC
scaffold49	GCCTCATTTATATGATTTGTTTCCTTCATCCT	GAACAAACATGTGAATAGCAGGAATGAAGA
scaffold51	TATTAACCCAGAATGAGCACAAGCCGACAAC	GAAGAGAAGTGGACTTGAGTGTGATG
scaffold51	GTGGGAGGACTTGCTATGTTCTT	GACGAAACCTTCTTATCACTCTTATCAACAT
scaffold51	ATTAAACTTAGATGGCAGCTGATGACAT	TGATCCAGAATACTGTCGAAATTAAGTGAAGA
scaffold52	GTAAAGGAGTGTAACAACAGGCGTAA	AGAATTGTTTAAGCAATGGGCAAAGAATTG
scaffold53	CGTTGGATTGAGCTAATTTTATAGTAAACAAGTT	TCAGGATGAAGTTCCATGTCTTATGAAGG
scaffold53	TACCGAACTTCTTTATCTGAATTTCTGATGGT	TCCAGCAACTAATGATATTATCAGGGTAGAT
scaffold53	AGTTCCGTCACATCATTTCTAGCATTGC	TAAGCACTTTTTGATGCTTCATGTAACGG

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold53	GTGCGAGTATGGATCAATCCCAT	GCTATAGCCCAGATCCAGCAATG
scaffold53	TGGCTCATCCAGCGTGATTT	ACAGAAGTCTAATGATGCAAATCTATCAATGAAT
scaffold53	CCCACTTTCTTTCCCTCTTTTTATCCA	CCAATTTTCACCATGGCTGCATAAGC
scaffold54	CCCAGGCTCAAACATATTCAAATTTATAAAA	ATCAAAGTAGAGTTTCCTTCTCAAAGGACA
scaffold54	ATGTGCGTGATAAGAGTTATTTTTGGTTT	CTCTACCAAGTTTCGACAATTTTCTTAACCA
scaffold55	AACACACAGAACTAGGTTGCAAAACA	TTTTTCTCTACTAAAAGCTGCTGCTACTT
scaffold56	TGCATCTTATACCTTTAAACTTTTGGGTT	GTAAATTTGGACTCTTCATTGGTCAAAGTTG
scaffold58	CAAAGTGTGTATGATCTCAAGCCTTT	TGAAGACTTCTTTAGGTTTCATCTGTTGGC
scaffold59	TGGCCAAAGCTATATATCAATTGGATATGGC	CTAGTCCTCATTGTTAATTGTTTTCCAGTGG
scaffold59	TTTTGCGATACATTCTCCATGGTCTC	CCATCAAGCCAATTGAGTCGATTGA
scaffold59	TTTTTCTAATGGCAAACCTAACGACAAAGGG	TTACACAGAAGCGGTAGATTATCTTAGGAT
scaffold60	GTTTAACTGACGTATTGGCACAATGACA	CAAATTAATTGAAGAACTCCTGCTGTGTTG
scaffold60	ACTTTTAAAATGGGTTTCTTACCTCAAACCA	CCGGTTGGTATGTGGACAATGAC
scaffold62	CGGAACGATTACCATTCATATCTAATGTGG	GGGTTTTTAAAGTTCATTCTCAATTGACAAT
scaffold62	ATTCACTTTGTGCATACTTCTGTACTTCCAT	TGGTGGCTGGGAGTTTTTCATTTATTG
scaffold63	AAGTGACTATCCAATTTACGATAGTTTCTA	TTTTATGCACTCCATGTGTTTGAAAAAA
scaffold64	ATTTATTGGGACGGCATAAGACTCTCA	TGTGATTTGATCATCTTGGAAACCTAAAGAA
scaffold65	ACTGACCATGATATATGAAATTTACTAATATGC	GCAAAAGTCCTTCTTACCAGCAATT
scaffold65	AAAGGCTTACCAAGAAAGGTGATGAT	TCTGTGTGGTTTCATGTTCACTCTGC
scaffold66	TGGGTTGACGATTGAAGAAGCTT	AGAAAGGGAAAACTTGTATGTTGTTCACT
scaffold67	TACTCATGCATGTGATTCTTTAAGGCTT	GTGTTTCTTGCTAGGACTAAATATGTTGACA
scaffold68	GGTTGTTTCAAAAATACATTAGTAACCAAGAA	ATTCTGATTAATAAAGAATTTCGGAGTCAGTTAAA
scaffold68	AAGCTCTAATCATCGATCATTGTGCAATC	CCCAAAACAAAGCCATTTTGGACC
scaffold69	AAAATAATATGGACTGTAGCCATTCTGCTT	TTTTCTCATCTTCTCGAGTTGAGTTGTC
scaffold70	AAATCCAAAAATTTCTTTGTGATCTTCACCAT	ACATCAGGACACTCAGACAATGTCC
scaffold70	AATCTGTATTTGTGGCGTTTTTCTAGTAGAC	TTATAGCTACTCATACAAGTGCTAGTTTCTTA
scaffold70	GGTGAGTTGATATTTGATCTCTTGTGGTA	GACTAGCTGGCACTAAGCTTAATTACTG
scaffold70	GTTCAATGATTTTGGCGTTGATGGAG	GTTGCAGCTATGTTTCTAACCTGTACA
scaffold71	TGCACAAACATAACTTCTCACGAGAG	CCTACCTAGGAAGCAAATACTTCTCTTGT
scaffold73	CAAAATCGAACCATAATCGTATCCGTC	GTTTGAGTTTGGTTTGTGTTGGTGCTA
scaffold73	AGTTACAACAGCACAACCTATGGTCTATTTT	CAAAATTACAGCTTAGCTTTAAGCCATTGTA
scaffold73	AGGATGTCATCTGTATGGTCTCTGTG	TTTCGGAATTTATCTCTGAAAAAGGATTGGAA
scaffold73	CGTTTTTCACTTTTAAAGAGTATACGCACAT	TTTTTAGTGTGAATTGCCGTAAACAATTTTT
scaffold74	CATGGTTGGAACAAGTGACAAATCCT	CTTGGTGGTAAGAGGTTTGCATCC

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold74	AATAACAAAATGATAAAGGCACAAGAACAATCAA	TATAAAAAGTCCTCTACACAAACAAATGGATGAA
scaffold75	GCGTTTGAACACCCCTAGAGCTTC	AGTTGCAAAATTGCAATTAAATCAACATGAT
scaffold75	GCCTAGATTTCGTTCCACAAATTTGGA	CAAAGGCCTTTTAAAGCAAGAAAAATGCC
scaffold77	GTGCTTCTAGAGAAGTATGACTTCAGTG	GAAACTCTGCCAATGGCTATATTTCCC
scaffold78	CGAGCCTTTGGGATCTGGTTG	ATCATGGGCAGTTGGACTAAATACCA
scaffold78	GGAGACCAGACTGGTCTCTCATA	GAGACCACTGGTCCCTTAGTCTC
scaffold80	GCCACTGTACCAACTGCCAAATC	AGTTATGCAAAATTTGGCCAACTTACCT
scaffold80	GCTTGGCTAGAGTGCTATATAGAATGACT	ACAATTCACCAAATGCTGAGGATC
scaffold80	GGAGACTGCCTTTTAAAGGCTTCAA	TAAAAAGGGTTATTAAAAAGCCCAACATTCGG
scaffold81	TGGA AAAAGATGTTGTCAACAAAGAACCA	AAATTTCCGAAATACAGGACAATCATGTCT
scaffold81	CGGTTTTATGCAGATGTGTTGTTTGT	AGGACTTAAATTTCAACTACACAGCCAAA
scaffold81	CCTTTTCTTCCTACTCTTTGGGCATG	GATCCCAGAGTCAATTTTGAAGAAAGGG
scaffold82	AAAAATAGTCTCGTAGGTCATTTGTCAAGTG	TTTTCTTTTTTAGGGTACCTAAAGCACAA
scaffold82	TGTTCTTCACTCAAGAAATTTAGATCATCTT	AAACATGAGAATTTTCTGTGCTTGCATT
scaffold83	CATACGATACCATGGAGCTCATGTG	AACTTTACCAACCTATTTGCCCAAACT
scaffold85	CCTTCATCATCCTGTTGCTAGAAACCA	CTCTCTCTTCTTCACTCAATCTCTTTTCTTA
scaffold86	ACCATTTGTGGTATAAATTAGTACACAATTAACC	AAAACGTTTGAAAATTTCCAATAGATACTGTTA
scaffold86	CCAAAGCAGCCAAATAAAAAGTCTTTGTG	GACATCTCCTCTGTCTACTTCTTTGCC
scaffold89	TCAGAAAAATGAGAGGCTGTGTCAAG	CCTTATTTGGTCACCTACGGCTTAG
scaffold89	AACATTGCTAACATAACTATCAGCCAA	TTATGAATCTCCATAGACAAACAAAATTTACGT
scaffold89	TACGTGGTTGTTCATCAGATAGTCATGT	GTGGCCTCTCGTGACCTCTATAA
scaffold90	AATCAGAAAAATGATGAGTTGCAATGAGGA	TTGGAATCCAAGCAAACAGCCATT
scaffold92	GGGCTTTACAGGACAATGCCTG	AAGTGGGTATACCAAAAATCTTCTCTTAAAT
scaffold92	GCGCATATGGTTGCATAGATGGG	CACACATCAGCGAAAGACATTCCA
scaffold93	GCACTTTGTTCTCGCTTCCTTCTT	GAGAAGAGATATCCAGCCCATGTTGC
scaffold93	TGAGCCAAAAATGAATTTGTCTATGCAT	TTAGCCACGAGAATGTGAATCTTTATTT
scaffold94	TTATTGCAGACTGACACTGCTTCAG	CATCCATACATTACAACAAGAGACTTGAAC
scaffold94	ATCCGCTTTCTACAATGGGCATT	CATGACATATTTGCATGTACGGAGACTTC
scaffold96	ACTTCTCAAGCCAAGGTCCTTGC	TCTACTTCAAAGATCTACTTAAAAAGTAGGGTCC
scaffold97	TAAGTTTGTGGTTGGGAATGATGATCAG	AAAAAGTCTGATGTGGCAGAAACAATTG
scaffold98	TTCAATCGAAGTGATGGGAGCATC	CCAATAGTCCAAGATCCCATTTTCAAATTT
scaffold99	CCCACATGTCAATTTCTTGATTTTCTTC	TCGTTTTAAGATTTAAAACCAAACATCCCC
scaffold99	GGGCTCCAGTGTATTTACTAGCT	GGGAGAGCGGAGAAGTACTTTTTTT
scaffold101	AAGATTCATAGGGCAAGGTCACCTATGC	AATGTCACCATTCAAACCCGAAAAATTG

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold102	AGGCATAAGCTCATCAGTTCATGGA	CTCAAATGGTCAATGAAGGATAAAAGTGTTT
scaffold102	CATGATGTTTGCCTAAATGGAGATGTT	ATTCCTTGATGAAGTTAGTGAAACTGTACG
scaffold103	CCTCTTTACACAAACCTCAATATGCACT	TGATGTGAAAATACCTTGAAAGATGGCAC
scaffold104	ATTCATCACTAGGTTTCTATCTTCATTTACAT	TGCCACTGCACCATTTCACTT
scaffold104	ACATTTATCCAAAACCTGAGGTGGCTTTAC	CTTTATGCTAATGTATCACGTAAGCCTCAT
scaffold105	CGAAAATGACTGCGACTTTGTATTAGTTT	GCTGGTATCTCCACTCCTATAAAAGAAATGT
scaffold106	TGCAATATCAAAATGCCAACTTGAC	ATTCTAATGCCTCTATACCTGTGACTAGTTC
scaffold107	GATGCGATTACAAAGTAACCTTTAAACGA	TGTTACACATTACATGTCAAGTGGCTTAC
scaffold108	TAGGGCAGTGTTTATGATGGTTTCTGT	ACATTTGAAGCGCAATCAATTGTGAAA
scaffold111	ATCAAGAATGTTTACTTCTTCCATTCCTAT	TCAAACCTTTTTCATATTTTCAGGGCCATATAA
scaffold111	AGCAAATCTGGATGAAGGCGTTG	TAGAGACCCACTTCATCACACCAT
scaffold112	GTTCCATCTAACTTTTGAGCGATAACAGTAA	GTAATAATTTTTGCCCCTGTAGTTTGCCTG
scaffold115	GGTGAAGTAATATACTTCAACCTCCTTTCC	GAAACGTCGTGACCTACTAAGAGAAAAG
scaffold118	CCATGGAGTAGGAAACAGTTGATTTGTA	TCATTTATGAATCCCTGAAGAGGATATTGCC
scaffold118	TCGTTACTACTCGCGACAAATCCA	TTTGTAAACATTCACGCACAATACCAG
scaffold118	AACTCAATCTGCAATGAATCATATCTTCCTC	GCTTTGAGGTGAGATATAGCATTTGAATTTT
scaffold119	TGGTCTAATTTAATTTGATTGACGATACCCAA	CTAGCTAGAGTTGCTACTTGTCAATTATTCAAC
scaffold119	TTTTTCTCTTTTAGGATTGAGACTGATCCAA	GTTGGTTTAAAGAGCCAACTATCCCATG
scaffold120	ATTCGCATAACAGTTTTTGTCCACTTATTT	AATTCCATTCCCACGACCACAAC
scaffold120	CTCAGGCTCGTAGGTCAAGTACC	CTTGCATACCTACAAATGTACGAAATCACA
scaffold121	GAAAAGTTGACCAAATTGACCAATTCGTAT	CTCTTCGTTAGTTAATTGTTTGGCCAATG
scaffold121	AGATCAACAAGCATCCAACATCCAA	GTGCCACACCTTTCATTTCTCTC
scaffold122	TTTCTTCCCTGACACCGAATCATCC	TTGGGTTTCAAGTTACAGTCCCAATTTG
scaffold122	AGTTGAGATGATTGAAGTGCTATAGAGGAC	GTTACAGCGATACTCACTCAATATCAACTAA
scaffold123	CATTCAACTTTAATGCATTGTGTAACACGT	GCTGGGATTTAACATTAGTTTTGTGACTTA
scaffold124	GGGTGGTATATATACTGACAATTAGCATCA	GTGGGTTAGGTTGGCTCCAAC
scaffold125	CGAAAAACCAAAGTTTAACGGATTGTATAATTGT	TTTGTGTTGGTAAATTTATATGTTTAGGGTCCTTCTC
scaffold126	CGGAAATCTATTTCCACAACAGGAG	GTTTACGTGTAGATATCAACGAATACAACCA
scaffold128	CTTTTCCATTTATTTCAACCTCAACACCAC	GGAAGCGTGATGGCAATACAAAGA
scaffold128	TTGAAAACCTTTCGCACAGAATGGACT	GGACAGTATCAAACCCACTAAGAAAATGAGG
scaffold128	AACAAATTGACTTACTACTTGGACAACAAAAGA	GAAAGATCTTGGCAATTCTTAATTACTTTCTCTGA
scaffold129	CTGCTTGATATTCATCAAGCTTTCTT	TTTTTGGCGAAATGCTGGATATTATAAAAT
scaffold130	AGTCTTTTAAATTTTCATTCAAGCACAGAGAG	TTTACAGGGTATTCACATGATCATGCTG
scaffold130	CCCATCAGAGGGAATAAAAATAAGGAAAGC	AGAAATATCCTGACTGGGCTACGAAG

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold131	CTCGGGCTCCACAACCTCTTTAC	TGCTCCATTTAATGATGACAGTGATGATAGT
scaffold131	CCTTCAGTTTAAAGTTCATTTTGTGTGCT	TGTCTCTAAGATGCCATTGATTATGCTG
scaffold131	GCACTCTTCAAATGCTAACTGGGTTT	GCTAGCATTAACGAAAAGCTGTAAAACTCT
scaffold132	GCAGATGGGATTAAATTTTGTGTATGCTC	ATTTTCAAGGGAGAAAAGAACAAAAGCCC
scaffold137	ATATCAACGATATTCAACTTGGGAAGCAC	GTGTGTTATTTTTCTCCCAAATTAAAGAGAAGGT
scaffold138	TCTGCTCCTTAGGTAAACTGAAAAACAGA	TTAATAGTTGTAATGGGCTTGATTGTGGTT
scaffold138	CGTCACTACTGATTTCTCTAAGTTACTCTGA	AAAAACACCTATCCAGTACTGAAAAGTCTTTT
scaffold139	AAAACCACACCTTCTCTCCAAACAA	TGTAGAAGTTTTTCCAACCTGTTTTACCTGA
scaffold139	AAAGTTTAGAAAAGCTTAATTACATAGGCAACT	TGGTGATCTAATTGATGTTGTAAGCTCGT
scaffold141	CATGCAATAGATATAACTTCAAACAATGGTCAAG	GATGGGAGGAAAAGTGGAGATGGT
scaffold142	TTTTTAGCTTTACCCGTCTACTTAAATCCAT	AAATGGAGACAAAAGTGCGGACTATC
scaffold142	GAGATTTTCATAGAGGATGGTGGTGTTA	ATTCTCAACCCTTGAACATTCCAAC
scaffold143	TTGCATTACTTATCTTTGTTCATCTTCTCGTT	AGGAAAAACGAGAAGCTACAATTAACTTAT
scaffold145	ACTCTCACTCACTCTTTCCGACTC	GCCGAGTCATGTTGCTTCATTGT
scaffold145	GTATTGGTTGTTGTTGCATGGACTG	ACATAACACAAACACTGCAGTATAGCAG
scaffold145	TGCATGTTACCCTATGCGTCAAT	GAAAGTTTAGGATAACCGACCCGTTATG
scaffold147	AACTCATTGGAAGCGCTTCAGAT	GTTTCATAAACGATGAAGTGTTTGACAAAAA
scaffold147	TTAGCGGAGAGTGCAAAGCAAGA	CTTCATGTTGCAGGTGTTTAGTTGTAAGA
scaffold148	GGCATTGCTCACATGATTGCATG	AGAGTTGTCTTTTCAACAAAGGAAGAAGTT
scaffold149	TTTTGTAGCTTTACATGGTCAAGTACATCTA	CAAATGAATGCTTTGATTGCTTTTCGAATAA
scaffold149	TACAACATTATCTTTTGAGTGGCTGGTTAT	AAAAACCCATTCAAAAGTTGATGTTGTACTT
scaffold149	TGACATGTAACGACAGCGATAAGATCG	CACAAGGAAATAGTGTGAATGCCTTTATTA
scaffold150	GCTTGGTTGAATCATTTATGTCATGGAAT	CGGGTTTTGCTAACAATCCAGAGG
scaffold150	GTCTTTGCAGCGCTATTTGAGT	GTGGACACCGAGAAGAAGGCTGAT
scaffold152	TGAAAGAGACTGCATGCATATTGACTA	TCCCATTCTTAGCACTCCACTAATATAACTA
scaffold156	GGCTGTTCTGTCTGCATTTGGAT	AATGCTGTGAAACAAATAATCAGTTTTAGCT
scaffold156	TAGGGCACTGCATTGAGTCAAAT	GAAAGTTGTAGGATTGAATGGAGCTTTGT
scaffold157	GGTGGTACCTCCTCTCATTTGGAA	GGATACCTGGATTGAATACTCTGAATTGCA
scaffold157	TGGTATATAGATCCCTAGCCTGACCATAG	CCTAATAATCCATCTCTTGAGCAATCTGAAT
scaffold157	GATAAAACGGTTGAGTAAAGAGAAGCAAAAG	TCAATGGGTGAGGACTCATCAGAC
scaffold158	CTTTGATTCTTAGAACTGTCCTGAAACATCT	AGTAACATCAGACTAGAGTTTGAGAGGATA
scaffold159	AAGCTTTCGGTTTAAAGAAAAGAAAAATGCC	AGTGGTGTTCGTTTAAATTTCACTTGTAT
scaffold166	AAAAGTGGAAGTTGTAGACGAATTTGTGA	GTGGTTTTTGAGTTTTTCTCTTGTGAGTTT
scaffold167	AACCATTTGGATGGATTATTTAGGAAACAAATGA	AATTAAATTAGCTAAGGGTACCATAACAATTGTA

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold167	TCAAAATGGGACGTTGAGATCTACACA	TCGTTGTAGAATCCAAATTTTCCACTCTAGT
scaffold172	GATAACTCAATTTTGCAAAGCCTCATCTG	ACTGATAGGTTTGGAAGAGAAACACCA
scaffold172	CCCAAGCCTAACAAGCTAGAAGTG	CAAGTACAGGTGTCTTAGTCTCCTTGG
scaffold176	TTCTACAACAAGCAAACATGATGAATATGCT	GGAGCCAATATATTGCTGGGACTAC
scaffold177	TATATAGGAAGCTGACAAGCTGTCACTAT	AAATAAATTAAACCCAGCAAGGAATTGACCT
scaffold178	TGAGATGTGGCAACTTTGGCTT	AGATTACAGCATATCGTAATCTTTTTCATGTAT
scaffold179	CAGCTAAGAGCTGACCACGTATG	GCACACAAAGCCATGTGTCAAATCC
scaffold179	CTAGAGGAGAGGACGTGGAAATTCT	CTAGTAAAGTCCTCAATTTGCAAGCCTATAA
scaffold180	CGGTAGGGTCAGTTTGTGAGCAGA	CTAAACTCACTACCAAGTATATCAAACCCAG
scaffold181	CCCTTTGGTTTCATTCTCTTACCTGTC	CGTTTTGGTGTGTGTAGGAGATCCTG
scaffold181	TTCAGGAGGAGGACCACGTGAAG	GTTTGTGCATCATAATCTTTGGTTCTATCCC
scaffold184	AATGGGATGTAAATATCGTTGCTTTGAAAGG	CTCAGTTGGAGTGGGACCATAACA
scaffold184	CAACAACCGCGTCATCAGAAATT	TGATAAGAGTCACTTTCTATGTCTCAGCTTC
scaffold186	GACATATTAATCTCTTCTTCCGAATTCTGATCAT	GCATGACTAATTGACTATCAAGGATTCTAGTTTTT
scaffold186	AACGAAAGGAAAGTTACTTTTCATCATTTCAA	AAGGTAGACATGGCCATCTCTACTC
scaffold186	TCAAGGACTAAAAAGCTTTTCCTCCAT	TCAACTCTCAGCCATGGTTTCACC
scaffold187	TGAGATTGAGTATAAATAGCACGGTTCAAAA	GAGATTTTATGTCTCAACAAATTCCTGATTTGAT
scaffold188	GTA CTGCAACTGAGCAGTACAATTTG	CGTGGCCATCCAAGTTACTAGGT
scaffold190	CACTATAGTTGTTGTAACAACACACTAGCTA	CCCTACAACACGTCTATCATCACTCATAA
scaffold191	GTGCTCTTTCTATGGTGAACATAGACTT	GTTTTGGCAATGTGTGTGTGTAGATACA
scaffold191	CAGTAACAACAAAATTTTCAGGCAGGATC	ACACAAGATTCCATAATATTGTCGTCACAT
scaffold192	CTCAAAAAGCAGATTCAAAGGCTCAT	AGTGATGCCCATGCCATTGTAAG
scaffold192	GTTCCGTCTCCGTAGCAAACACTAC	ACTAAGTTTCCACTAAGAAATTGTGGATGAA
scaffold194	GTGACTCAGCTTGTCTCACGAAG	CGGCATTACATCACCTCAATATTT
scaffold194	GGGACTAATTGGTTGCATAGAATTGGA	TCTTTTTAGTATGAAATCATCTACTGAAACACAT
scaffold198	GGGAGACAATTTTGATGGGTATCAATAACA	TTTCTTTGGGTCTCATAAAGCACGTAG
scaffold199	CATTATATCTTTGTACAGTACAAGTACAGGGACG	ATTTTGTTAATCATTTGGGATTGAGATCTTTTTT
scaffold201	CACACAAAACATGATAAACATAAGAGCCAA	AGAACTTATACGTTCCACAAGATTAGCAGT
scaffold203	TGTGCTACCAGATAAAGCAACCATG	CATTCTATGTACCTTTATTGGCAGATTGTGC
scaffold204	TGGCAACATCAATTACACTAAACCTCAA	ACCCTGGCCACTCTTTAAAGCG
scaffold204	TGAGACACTGTCTTCCGTGTCTT	CAGCTTTCAAATGCATCCAATAAACTCTATA
scaffold205	AGCTATGTTCAATTTTCTGCTCTAGGTG	AAAGGAGATTCCCACTACTTTTTGAGTCT
scaffold205	CTCTCATAATCGGGAGATAACAACCTCCC	GCCATGTTTATAACCACAACCTTGTAACCTTTT
scaffold210	TAAGAAGCTGGTAGACGACGAGATA	GGTTCAGTAAACTTAGTGATGAAATCTGCC

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold211	TTCTCATGTTGGAAAGTTATTGATGGAGTC	TATGCATGTGTCCCTCATAAATTAGACAAAT
scaffold211	CGCCAAGGTCTCTCTCTCTCTTC	AGTCAAAATCACTAACAGAGATCTAGAGCTT
scaffold211	GCTTCGCTTCTGAATTCTACCGAT	GGTTGAGTTTTTGAAAGCAAATACCAAGTG
scaffold213	AACAACACCAAGATCTATACTAATGTGGTGC	AAAAATAATCTGAATGAGTGATGCACCATG
scaffold219	CCCATTGTTGTTGAACTATTGTTCTAGTA	TGATAATGTTACATGAGCAATGCCGATA
scaffold224	TCACATAAGTGCTATGCATGTGATGTG	TGCTAGACATTCTACCATGTGTTTTTCAATT
scaffold225	AATAGACATGTTGCAGAACAGTGGAC	TGGCTGGACACATTTGAAAACATCA
scaffold226	TCTTTTAAGGGTAGAAGAGACGGGTAA	CTTCAGGGTTTGAAGATTAAGAAAGAAGCA
scaffold226	CCTAATATGTGAAGGATGAACTGGAGAT	ATCGAATTACTGATCGAAAAGTTCCATCTAA
scaffold228	ATCTAGGTTGTTATGGGATTTGTGGTTTC	ACACACACACACACAAAGCGTATATATATAA
scaffold229	TACTGACGAACTTCACTTTGTTTTAGATGTT	ATAGCTAAAGGAAATGAGTTGTGTGTTCTA
scaffold232	GAAAAACAGTTTTTCAGGAAGATGAAGCAA	CATAATCAACCATGTCTAATGTCAAGAAGCT
scaffold237	GATATATTCCTCATCAACACTGGGTTGAG	GCCATCCCTTGTTTCAGTTTATTCTTGATATG
scaffold237	CGCAGGATTGGCTAATCCCTT	TTTGGGCTTTCACCCAAAACGC
scaffold239	ATTTAAAATTTGTCTCATATTCTAATGTCGGTCA	GGGCAAAACGAAAACCATAAATAAGTGAATC
scaffold239	CCAAAAGCCACAGTTTCAATTTCAT	CTTGGCTAATGTTGTGAGTGGACTATATTAC
scaffold241	AGAGTAACATTACAGGCAAATGAACACAG	TCATGTGAAAGTCAATGCTTCAAAAGTGG
scaffold242	TACCTTGAGCCTGTTGCACAATG	CCCTTCTCCAATCGCAACTCATACA
scaffold246	CTCCACAACCACAAAATAATTAATGATAAGTGTT	TGGATTACATGTAGTTAGCATTTGTGGTATTTG
scaffold247	AGTTTTTCCTTTTCACGTGGATTCAAGTAA	GATTCCAACTCACTCACCGTTATACATAT
scaffold248	CAATGCTATAAACTACGGTTAGTAGGTCCG	TGAAGCAATTCGCGTCATTTCGC
scaffold248	ACCAGGATCAAACACGAGCAATAG	CATGCTTTTCGCTTAATTAACAACCGT
scaffold250	CCATAACTAAGCATTTTTGTGGGCTAT	CATCCCTCATTGAGAGTTGTAACTCTAACA
scaffold254	GGCGCACTCGTGACTCATATACT	GTAGATTCAATTCTCCAGTTGAGTTGCTT
scaffold255	TCAAGCAACATGGAGAAATGAAATACAACA	GGCCCACTAATGGTTTGATTTGTGTC
scaffold259	TAGAGCCTCAGTTGCATCCAAAGG	AGAGCCTGAGAGTCCTAGAATGGG
scaffold260	GCTTAGATGAAAGAAAGAGAAGACACGAT	GAAAGCGTGAGACAGGACATGAC
scaffold260	CGGTTTTCGTTTCGAGTTGGTTTTT	CCTGCGGATTTAGTTTCGCAGTAAC
scaffold266	CAGAACTGTTCCACATTAAGAAATCAAGGG	ATGAGTCAGATCGAGAAAAGTACACAAAATC
scaffold269	TCCTTCTCTTTTATTCTTCTTCCTTCTCCAA	ACATTTTGGGATGAGTCATGTTGGTATAAT
scaffold270	GTCGCTGTGTCACATTACCTAGGG	GTGATACCTGTTGAGTGAAAAAGAAGCTAT
scaffold272	GCCACTTAGCATCCTTTGGCAAG	GCCAGAAAAAGTAATCAAGATGACCTTCATT
scaffold272	GTTTGTTTGCCTGTAATTTTAATGGATCCAC	AATTGTGACTCTCAGTGGCACAAA
scaffold276	ACAATGAAAATGAGAAATTTGATGATACAACTA	ACGTTTCTTGATCAATCCCGAGTCT

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold277	TTTGTCTCTCTTATGTTTTGTCCAAAACGT	TCTCTCTCCATACCATAATAAATTGGACGAT
scaffold277	ACGGATTAATAACTACTCACGGAAGTGA	TCTGTGAACTATAGCTAGCATTTTCGTAATTTTA
scaffold277	GAAGAGAAGGATTTGAGAGATGGGTTG	GTACACATAGCCTGCAAATTGGAAAATATA
scaffold280	TAGTCGCTTTTCCCTCATTTGTCATC	ACAAACCCGGAACCATTAATACATATCATA
scaffold281	AACATATTTGGTACAAATCTACGTAGAGTGGG	CCCGACTGTCTTAGATTTTGGGAAGA
scaffold284	TTCTTACATAGAAACCTTTGGCTTTTTCTT	GTCAAAGAGGTAGAGAACACCGAGAAC
scaffold286	ACTGCAACTAGAGTACAGTCTCGAG	CTTGTTGACCAAGATTGGTTTGTTCAG
scaffold286	GAGGAATAAGGTTGTTCCAATCCCAA	GGGTGGCTCTATAAAATATTCATCATTTGCTT
scaffold286	AAACGCACAGAAGTGGAAGTAGTT	CTTTGCTTTATCCCTACTCTTTAGTGTGTGA
scaffold287	GCTCTTGGTACCAACTCATCGTC	ACTGATCGAACCAGAGATTAAAGTTGATACC
scaffold288	ATCAGTCCAAACAAAACTTAGAGGAGTT	TCTCTTGAGATTTTCGAGATCAACTTAATCA
scaffold288	GTCCACTAACCGCTGGTACAAAC	CGGAATCGGAGCTGGATTGAAATG
scaffold290	CACGTCGTCCTGTCACAATACAA	GACATTGGCATGGCAATTTAAAACAAAATTT
scaffold291	GTGATTTACACGGACGAAGGGAAA	CCTCGTTTATGCTTCACAACAGTACC
scaffold292	ATCCAGTGGTTAATCTGCAACTTTACAC	TTCATGGATGATGGAAGGCAACTA
scaffold294	CATGGTATATTTATTCACACAGCAAACAACAA	TGTAATGGAATAGCAGTATGGTGATTTTGTG
scaffold295	GCGGATCTGTTGGACATTGTGC	CAATGATAAAGTGGCAAGCAGGATA
scaffold298	CCAGTCTGCTTTACGGTGGATAT	ATGAAATTTTATTTCCATTGTTGGCTCCAAA
scaffold300	TGGAGTGATGAAGAATCAGATAATAACAGCT	CATGACGGTTATTTTTGTTCTCCAACAAG
scaffold301	GTTTGGAGACTAGGGATCTCTAATGAAGG	TTCTTTTCTCTATCGCTGACTATAATAATGGAAT
scaffold303	GACCATTCCTTCTATCAACCATCAA	GGACCAGTTTACTCAACTCTCTCAACC
scaffold309	GAAGAAGTTCGAATGTCAGTATACTCTACCA	TCGTTCAACCAAAAATAACATCAAACGACA
scaffold316	CCCAAACAGGACATATCCTCCTA	GTAAAGGAGTTGCTACGTAAACACCC
scaffold319	TAGTGTAGAGTGCTTTACTGGAGCTTG	CGTTCATGATAATCAACCAAGGAAACACC
scaffold320	GCGGAGGTTACCTGATGAATAG	ACCAGAGTTTCTTGTGTATCAGTATCATC
scaffold322	CTTGGTTTCTACTGCTGCCAACTA	CATATCTCGTTCTTTCTTGCAATCCAAGA
scaffold322	CCTGATAACTTGTACACAGTTGGAGTC	TAAGTGCATTTGGAGAATGAGCCAAC
scaffold325	CGCTACTCAATCGAAGAGCCATA	TTGATCTGTGTTGTTATGACAATCCGAG
scaffold326	AATCAAGATAACCGGAATGAAACCCAA	TGCTTCAATGCATGGTCGTTTTCT
scaffold329	TCAAAGTAAGTATGCAAAGAACTTGACGAA	TGACTCCTTTGGATTGCTTGATGTG
scaffold329	CGTCAACAATTTTTGACCATTTTAGTCTA	CTACCATTTGGTAAGCGTCACAACC
scaffold330	TTTTTATTTCTATCAAGTAGCAGCCTTTGAA	ACCTTAATTATCAGTCGAATTAAATTTCAGAACA
scaffold331	CTGCACACCCACCTCTATCATAAG	GAAAAACAACCGGAATAAATGAGATTGAATA
scaffold332	CACATGACAGAAGGCAGGTCAG	ATTGATAAAGGTACACATATTTTATGGGTATGAT

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold339	G TTCCTCACTCTTGCTGGAGTTG	CCAGCTATAACATTCATGGATTCTGGAC
scaffold340	GCGGTAATGGACATCCTGGATTG	GCGCACTCAATTGGTCTGTTACA
scaffold344	CAGCCAATTGGCTATTGCCATTGC	CAGAATCCCAAGTTCTTTTTATCCTAACTGA
scaffold344	CCTCTTCACTTCTACTTACATTCTCATCCT	TGTTAATTTTACCAAACATCGGACAGTCAC
scaffold345	TGTGTTTGGTGTAGCAGTCATTGAA	GGAACTTTTTTCGTGTGACATTAGAGCC
scaffold347	TCAATTGGAGGTCAAACGAAGGAG	GCGAAGTGAAAATAAGAAAAACAGACCATGA
scaffold352	TTTGTGTCTTTTCCACTCAAGTCCAT	TGGTCGATCATCACTCTTCTACGTG
scaffold353	ATAATTGATGATGGACGCTGGATTTCAT	AATTGCAATTCCCGATGTCATTTTTTA
scaffold361	CTGGATGAACCCGAGATCCTTCT	TAGAGAAGCGGGATGAGATTTTGCA
scaffold361	ACAATGATAGGGCACAACTACCATATTAA	GCGGTTAATGAGGGACATCTTCATGG
scaffold362	AAAAACATCCTGAAGTCCGCACTAG	GAAAAGTTAAACATGATTTGAGCACCTCTAA
scaffold363	TCTTGAATAGGGTAAAGAATGGATCTCTCAT	GCAATTTTCATCTTTTCTACCATGGAAGTC
scaffold365	TGCCTACAATCAAACCTATATCTGCTTTTG	TAGTACATCATCTCTTTTGCAAATACAGCAT
scaffold367	GTGAAGAAATGTGGTATAGAGGAGGTTG	TCTGTGACCATCTGGCAAATTTT
scaffold367	TGGTTACTTCTGTCACTTGCAAGTG	CGTAAACAATCATGACAAGCTCCATCTC
scaffold371	GAGAGACGAGTTTCGTTACGATGAAC	AAGTTGAAACACGTATCCAATGCTTGG
scaffold372	TTGATTTTGACAAATCCTGCATGAAATGAT	GCAATCAAGACTTACTGTTTTGAGGGTT
scaffold374	TAAATGCAGCGTGGTGATACATAGAATG	ACCATGCAACTATATATACAGATTCCATCAAACC
scaffold376	TTCAATCACACTCTACAGCAGAGAAAGA	GTAGCAATGGACCTGATAAATTGGGAT
scaffold378	TGGACATTGGTATCACATCAATTCTCTTTC	TGAGTAGCACACTTAACAGGTAAACTGG
scaffold380	CAGAATTAGGATCCACAGATATCCTTGACC	CCACGTAGGATGATGTGGTTTAGTTTTTT
scaffold381	TAGGTGGCAAATTGATGAAAATGTAAGCA	GCGAGGAGAGCATCCTATGACAT
scaffold386	AAAATGGTTGTCATCTATACCCTCTTCAAA	CTAAGGTTGCCAAGACCATTTTAGAGAT
scaffold390	TATGGTGTGGCTTCAATCACATACCT	ATGTATACACACACTCTAAGTGCAATGTATT
scaffold392	ATCAGCAAATGTTTCGCTTTTCAAAA	CCCGTAAGTTACTCTTTACTCGATTCAAATA
scaffold394	CATGGTTGCAGCTCATCTTGATATGA	ACAAACAAGAGCTTACCTCATAGTAAAGTTC
scaffold396	GTATCCCGATCACGTTTCCCTTA	TAGTAGGCTAAGACAAGTGTGGACAG
scaffold405	GTCCCAGGAAGAGGACATATGTTTC	TTCAGTATTTGGACCAAACCAATCTC
scaffold407	GAGAGTCGTAACACCTGTATACCACC	GATTAAACAGATTTCTTCGATCGGAACATCC
scaffold409	TTGGCTAGAATAGAACATTGACAGTAGTTGA	GGTTGTGTTAAAGGCAATTGTACGAGC
scaffold412	TCTGGGATAACCTGTACTTCTTATAGACGT	CCCACACCATGGGTTTTTAATTTTTTCAGT
scaffold415	ACACAAAATTTTCCTTATATGTGGAACCCATG	AGCCTCAAGCAGATGATCCAAAAAG
scaffold417	AAGGGACAGCTTTTTCACACAGAT	AATTCTGGTACTTAAGTGGGAATTGTGATTA
scaffold418	GGGTGCAACCAGTGGTACTTAAC	AAGAATTCGACGAAAATAATCATGGAGAT

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold420	CATTTCTCTCCCTCAAAGTGCCTTC	TGCTTCCCTATTGATAATGAAGGAATAAGTA
scaffold422	GACTAAGAATAGTTTATGATTGAGGCGACAT	ATGTTTCTAGAAGGCAATTGATTATAACAGATC
scaffold424	GCCACTTCTATTTCCACATTTCTAATCATCT	GGTTTTGTCTTATGTGTGACTAGAAAGGTG
scaffold426	GAAGGTCCACAACACGAGCATAA	CTTCGAAGCTTCTTTTTCTTGTCTAACAAC
scaffold433	TCCACCCATTTTCGTAAGTCAAAGAAT	GGGATCGAGTCTATCATGTCATCCTC
scaffold435	GCAAAAGACGGAAGAGAAAAGTTGTCT	CAAAGATCGCCACTCTATATGTCATCTTC
scaffold435	AGTTGGACTAATGCAGGCAGTTG	CTACAGAGTCCATCTACTCTTTTGTGACA
scaffold440	CATCTCTGCCAGCCTTTGAACTC	TCTTATTAATTGATATTGGCCTGAATCTTCACAT
scaffold442	CAGAACAGCCATCATCAAAGCCTAA	CCAAAACCTTGCTACATGCATGTAATTGTAAC
scaffold449	CAAGTCAAGAGCGAGTCAACCTG	CATCCACATAAGGTAACACAATCAATGCA
scaffold450	ATTCAAGCTTATTAAGTGTTTGGCTTCAAAT	AAAAATGTTTTATTCAGAGGGTGTTCATT
scaffold450	TGTGAATGAGAACAATTATTACGAGGAATAGAGC	AAGAAAACAACATAGAAAATGAGATCTAACCTTA
scaffold451	GAACGACGCCGAATCCATAAAGA	GATGACGGACATATCGAATCCGTAC
scaffold455	AATTAGCAAGTCTCCTCATCCAACTTT	GCAAAATCAAAGTTTTCTGTAAAGGGAAAAA
scaffold456	AAACCTTTTCTACCTGGCAAGTTAAATTGA	TCTAGAAACTGAGAGACTCTTCGACAAG
scaffold459	AGGCATATGAAAATTTTCAAAGGGTTTGTT	TCCATCACTGCACAGTTGAATAACATG
scaffold463	CCACGTCAAGCTGTCTGTC	CTTTTCTATCGGTGCGTTTCACCG
scaffold464	GTGGGAAGGATATCTTGGACCATTC	AATGCCCAAGTCTCACATCCTTTC
scaffold467	GCATTTCTTATGTTTATTTACCCAGACATC	CGCTATGGCCTTTCATGAATGGTC
scaffold469	ACTGGAGCAGTATTTAGATACCCTAGATCA	CAAAGGCTTACTGAAATTCCTCCCAATTTCT
scaffold477	TCATCCCTAAATACAATAAGGGTGATCAT	AAATAATCATTTTTCTTATTTGGGATGATTGCTT
scaffold480	ACGCTAATACGACACGAGATTTCAAC	GCCTCAGGTTTTCTAGTGTAATCATAGTGC
scaffold481	GGCCCTCTCCTCTCTCTTATC	GGAGTTGTTTTGAGTGAAAGCACTTTTG
scaffold485	CACCCAATTTTCATTACTCACTCTTTGTTT	TGCCATCTGATGATTGATTGCTTCTAA
scaffold488	ATTATTGACTTAGTGACGTGATGCTGATTA	TGACATCTGATGGAAAGAGATGTAGTAGTG
scaffold492	CACCAAACATCATGTGTTGATACTCCC	TTGTTACGTGTGTGAGGATGAACATG
scaffold497	AAAGCTGTTGGATAAATAACTCCTCAACTT	GTCTGTAATTCAAAGCAGGAACAAAATAGAT
scaffold502	ATTTTAAAGTGTTTGAAGGTAGAGTCAAGGTG	GGGTTCCACCCAACAAATACAATCTG
scaffold504	TTTATTTACGGTTGAAATTTGCAGGAGTTTT	GGCTTGCTTTTCTTTAGTTGAGGG
scaffold505	AGATGTTGGCATCATATAATATGACCGTGT	TTTTTATTGCATATTGTTGAACACCCAAA
scaffold507	ATAGCAAACCTTGAGGAACCATATATTGTTG	CTCCCTCACAGTAACTTGTCAACAATG
scaffold508	TGTTACATATTGCCTGTGGATGAC	CAATCAAACACACCTTAAACCAGATGAAAAA
scaffold509	GCTTTGCAAAGTGCAAAACCTT	GAGAGGGTGATAGTTACAAAGTTGTTACTA
scaffold510	CCATTGCATGTGACTTGGGTTC	AGAGCTATAAGTAACTGAATCTACGAAGTTG

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold511	TGAGTTAATCATCGAGACGATTGTTTGAC	GACTGGTGAATGATGAATTTCAAGGTTGG
scaffold514	CTCCTTGTCCTGTCAAAAGTTCT	CTGTAGCAATGATGTGTCTTTGCAGT
scaffold515	TGTGGAAAAATTTTAAGTGCTGGACAATGA	GAATACCAGCCTACAAACAGGAGATA
scaffold517	TCATCCATTTGTGTGTATGCTAGTTGTA	CTATGCGTGACTCGACATATAACATGATATA
scaffold527	CGATGTTAGGGAAGAGGAGCAAA	GTTGAGCGTTTGTGTGTCTCTTGTG
scaffold537	CCCTAGGAAGGCGAGTATGGTTG	CTTGACTCTCTCTTTTGACCAACAAATCA
scaffold543	CTTGAACGAGTCCCTATGCGTTT	GGGAGACGGAACATATAAGACTGGTG
scaffold544	TAGAATGAGACGAATATCAATATTTGTGCTGAAT	CACGGAAGATGAAATATCCTACAAAGTGAAA
scaffold546	GTAAACGTGACTTGTGGTATAATAAACTTGTT	CAAAATCTACACCTTCTAAGAGTTAATTTCTCTAT
scaffold547	GTGTTTTGCGATCATGCCAAACA	TGAGATTCTCGTAGAGATTTATCGCCAG
scaffold550	TTCTGTTGACAATATGTATGCTTTCCCTC	GCTGGCAGTTGCTACATTAATTTTAGTGA
scaffold551	TATGCATGCACTACAAGAAAATTGTGCC	GAGAGTTTTGATCTCACTTTCTAAAACGGG
scaffold552	TCCTTACACTAGGACAAAATCATCTAAACCT	TAGAGAAAAGATAGAGAGCGAGGATAACAAA
scaffold553	GCCTGCCAGCTCATTGATATGGG	TCCTGTAAATGTTCTGTTTTCCAAAAACCA
scaffold556	CCACAGCAACAATATATCTGTCACAGC	GCTTCTCCCAAAACTTGGCAACG
scaffold558	TTGGTTACTGAAGTGCCAGAGTTG	CAATTAGAAGTAGATTGCGATAGATCTGCTT
scaffold559	TCTGATTAGTGACCAGGGTTCTCTT	CACTGTGTATTGCATTACACTGAAAGGA
scaffold568	ATTCATGTCAAGATAAAGACACAAGTGAGTT	GCTAGTATTTTTGGTGTTTTAGTTTTGTCGG
scaffold570	GTCCACGAATTGTCTGGTATTAGTTTTAGTT	CGGAGTTTGGTGCACTTTTTCATTATTTTTAT
scaffold571	ACATCTTGGTTTACATATGAAAACTCAGTA	AAGATCATTTCCCATTTATGTCAATTAAGACCTA
scaffold576	GCCTCTTTCAACAAGCTAAAGGTTT	TAGAGCATCACTGCTTTCTTTTCTTCTTT
scaffold582	CAACTTACCCATGTAGCAACGGATA	CTCCGGAGGAGGAGTACTACACG
scaffold583	AATGAGAAAAGCACCCAACTTTTCGC	GAGGAGTGATGAAGGAGAGATTTGGA
scaffold584	ATTACTGGCTCCTAGAATGGAACTTG	AGCAAACAATTATCTGGGCAGACAAATATAG
scaffold587	AAAAACATCTAAGCCAACTATAAAGAGATCAT	GTCTAAGATCCATGATTTGTAATTGCAACCG
scaffold592	CAAGAACCGTACTTGACCACCAAT	GGTCAGTGGTTGAAATCCCTGTA
scaffold594	TGGTGGCAAGTGGTTGTTAACAT	GTGCACAATCGCCTTAGCATACG
scaffold597	CCCAACGTAAGGGTTGGGATTCC	TCAATTTTCAATTGGGATTCTCATCCCTT
scaffold599	GCTAATGTTTCCACCACAAAATAACCAG	TTGAGGATAATTTGATGACTTGAATGGGTT
scaffold605	CTTTTCATGACCAACACCACACAA	ATGAGGTTTCATAGATGATGTGCTATTTTGAT
scaffold608	TCGTCAAAGTAAATGGATGTTGAAAAATCGG	TGTTGGTAAACGAAGGGCTTGTC
scaffold608	TCATATCTGTTAGATGATGTCCCTCACATC	TGAAAATGATGATTATTGCTGGTCAGTCTG
scaffold610	GAAGTTGAGGACTCTGTAGAAATTGAGTT	GTTTTATGCAATGCCTGTGGATCAAG
scaffold613	TGGTAATTCAGGACGAAAGGAATGAGG	CTTAGGACCCAGACTCACCATTGC

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold613	TTTTTGGTTTAAACATTGTTGACCACATTTC	AAAAACACTCTTTCAGTTGCCAAGAG
scaffold616	CCCTTGATATTGCGGAGTTAACAGTA	TCTTTCAATTTCCCTTTTTCGAACAACCC
scaffold624	TGTCTCATCTTGTGCATGTACTTGGT	ACTGAGGATTTATTGATGTATATACAGAAAGTCT
scaffold625	TAGTGTTCATGAAATTAAATCAAAGACGCTCA	TTGAACCAAAAATAAAGTTTCTATTTTCAGCATGTG
scaffold626	TGTGTAGTGTTTGTACACTAATGTCATTGAT	CAACCAAGAGGTCATGGGTTCAAA
scaffold628	TTGAAGCAACTGATATCTGTATAGCAAGGA	CGGATTGTTATCTCAGGACGTGTTG
scaffold630	TACGATAATTGACAGGCTAACAATCAGTGG	TGGTTCTGCCAACATTTATGGTGAA
scaffold631	AACAAGGTACTGTTAATTTATGCCCTTAAGA	CCGGTCATTAATGCCAAAGAATTTATACGA
scaffold636	AACATTGTCACGCGGTCAAAATC	TACCCTTCTCGTGTATGTTTGGTTGT
scaffold637	TTTTAAAAATTGGCCAAACCCGCTAAC	TTTAGGCTATGCAATCATTACGTTAGTGT
scaffold642	ACTTCTCTTGTTTAGAGCCAAGTTCTCC	TGGTACTTCCAATTTAAACTTGGTTTTGGC
scaffold647	GTGAATTTTCTGGTTTCAAACAGGGAA	ACAAAATTGGTTTACTCCTTTTCAGCAATTA
scaffold648	ACAAATAGCTCCTAGCAGGCTTTTT	TTTAGCTAGGATCTAGGAGCTAGAAAGTTC
scaffold652	GGTGAATTAGACTGAGCTGACGAAA	GGATAACTACGACCATCCTTCATTTTACTTA
scaffold653	TCCACTATTTTTGGTCTATGTAATCTTTGGTCA	ATTGTTCTCATTAATAATGTGAGCTAAAAGTACT
scaffold661	TTGGTTGCAATCATAAACAAGTTGCAA	TTTTACTTAAAGCTCACCTACAATTCCAC
scaffold665	CTATCCTCACTTTTCAGCATTTGACTACAG	TGGCCTCACATTACCTTATGGACTG
scaffold667	TCATAAGTCCGTGACTTTAATTCGCAA	AAAAACCATTAATTGCACAAAATTGGTTA
scaffold668	CTACGTGTCATCCTCCATGTCAC	GAAGAACAGTAGGACACTCTTATTTAAGGAG
scaffold669	CTAAACACATGCGCACACACATG	GTATAAACACATTTTACATTGCGCTTAGGTA
scaffold671	GGCTGTTGGCCTCCATTACTTTC	TGATAGCAAAGCAATGAAGCTAAGGAA
scaffold676	AATACTTGTGTGTAGACCTTTTCAAACAGCT	AAACAGCTGCTCCTATGAACAAATACTC
scaffold677	CCGCCTTCAAACTAATTTCTGTATCAT	TTCAAATAGTTCCATATTCGGCCATAACTC
scaffold678	TTGTACAAAGTTTTTCGAGCTTTTCAGTAAAT	GGTTTGAAATATAATTCATGTGCACCATCAA
scaffold684	AAAATCGTTTTGAAAACGTGTCTCCAAA	CAGGATTTGAATACAATTTCTTTGCATCAGAA
scaffold685	TGGAGGGACTCAGATAGGCAAGG	GATGGACAAGCGGTCACTACTCA
scaffold686	ACCTAAATTGGAGGGCGTTCATG	ACACCAAAAAGTAGATTTGTATGCAAAATCCA
scaffold687	GGGTAACGCCAGAAAATCTTAGGTA	TTGTGTATGTTTGCCTCGATCTTATGTG
scaffold700	CAACCCAATTACTAACATCTAAAGGAGCAC	ATCGTACAATACCTTATCCACATCTCAAACG
scaffold705	ATCCATAAGTGATACAAAATAGATCTCCATTGG	GGTAAGTAGATTGTGACGATCTAGTGCTATAC
scaffold707	TATACATGAGACCATAATGGAGTGGATGAT	GGTCCCAAATTCACAAGATAAATCCAGAA
scaffold708	CTAGGCATAAGCTGGGCTCAAAA	TTCTTATACATTCCTCTGAACAGAGTGTAT
scaffold709	GTCCATTGACCAAGTCCATCAATGA	AAAGATGGAAACAAATCTCCATTTGGTG
scaffold710	AAAAATGGTTGGTCTCCATCCCATATAT	GTCATTAAATCGACCATTTATCACGAACAATG

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold713	ATGTAGATTGTTGGGAGAAATGACCTTTA	CCATCCCAGTTGCTCTTACGTATTGT
scaffold715	GGGCCTCCTATATGTTGGTTAAGCT	TTAAACGTCATGCTCTGCAAGGATATT
scaffold717	AAATAAAAAAGTTGGTGAGGTGTTTGTGAG	GATTGCTTAGGCTAGATTCAAGTTATTTCCG
scaffold718	CCCTCTTTGACCGTTGCCATATT	TGAGGTGGCTCAGGCTTAGTAATT
scaffold719	TGGGTCATCCTGAAGAGTTGAGAT	TGCAATGGAACACTTTTCATAGAACATTTTA
scaffold721	AAGAAAAGAGCGAGTAATCCGCTTC	TGCATCAAAGGCATGACATAGCTATTT
scaffold723	AACCAATATTTTGCACCTCATTTTGCCTA	TGTCTTAGGACTTGCAATTGTCTGATATTTTA
scaffold725	CAAAATTGGGTGGACGGAGTTTT	CCCTGGCCTTTGGTTGGATTATTG
scaffold733	TTCAACCTCACAACGGGTTCCTTC	AGTTGGCTAACAATGAAGGTGGTG
scaffold735	CAAATACCAAATACCAACCAACCAG	TGCTGGATTGTGATTTTCTTTTCTTCAAAAA
scaffold743	TCTTCTTGATCGGTTCAAGATAAATACAAA	GTAAAGTCGCTTTTCGTCTCAGATGG
scaffold746	GATTCAAAACCAAGAAAATAGTTGACCGAAC	AAAAAGCTTTGTATGGTCTAAACCAAGCT
scaffold748	AAGTGGATCTCAACTATTCAATTCATTCTAATCT	AATGAACTAATCAAGAGTCAATTCATCTTAGTTT
scaffold754	GGGAGGTGCACAACCTATTTATTTATTTATTTTT	GAATATTAATTGACCTAATATTGTGGGTGATT
scaffold757	CTGTTTCTCTCTGTTTTTCTTCTCTCTCTT	GCTTTGAGTTCTTATCTCTAACCTTCCTA
scaffold764	TTTTCTCATTTGGAGGCCTTGACTG	GCAATTGCAGAATGAAGAAGTTACAGAAAGT
scaffold767	TCTCTGGTTTACTGCCTATGCAATGA	GTCGCCATTACCGAAGCAAAAAAC
scaffold770	CTTGGGTGGATACGTGGCTC	AGACTCAAACCTTTTAAATTGATTAAAAAGAGCT
scaffold771	GGCAGTTTCAGAGTTACACTTTAGTCTT	CTCATGTTGTCAAGCAGTTTGCTA
scaffold779	GACTGCACGCGTCTATAGAAAA	GAGGTCCGCTGCGAAAAATTACG
scaffold781	AAATAGTAAGCAAAATCCACCAAACTGT	GTGTTCCGTTTGTGTTTCGCTAGT
scaffold782	TCTAGGTTTCTAGTGGCCCAGATTC	AGATATCCACAAAAATTGGATCTCCACAAC
scaffold783	TCATTAGCAGACACTGTTGTCATCATTT	ACACCTCAATCTCTTTCTCACCAAAATAATTA
scaffold789	TCCTCCATTAATAGTATGGATGATCTGCTC	AATTACACCTCATAAAGCTACAACGTGAG
scaffold792	ATTTCTGTTGGTTTACGTTGGAAAGAAAA	AGATCCCAACATTTTTCACCTACCAAG
scaffold793	GCATCTCGTCGTCACCTCTGTTTC	GGTGTGACATGTATGGAATGAATAGATTGAT
scaffold797	GACTTAAGCTATGTCACGTCGTCTTT	GCCCCAAAGCAACTCTAAAGATGT
scaffold799	TTGATGAAAATGTTTGGACAAGCATTGAC	ACATTGACTTCTTGACAAGAGATGTATCTTT
scaffold805	GTTGGTGGTTCAGCAGTTGTTGT	GAAAACTAAGTGAACTCACTGTTAAGCAA
scaffold807	TTCAATTTCCAGTTCAACTTTTTTCGTCA	AAAAATAGTTTCAATGGTTGGGACGTATCT
scaffold809	CAACCATTTCTCAAGACTAATCCTTCTTTGG	CATAAATGGGACTCTATGCTTGTACCAG
scaffold812	GTCAGCCAATGATATGGTCACTAGATT	TATAAGACAACCCACCAACGGGATCAAGT
scaffold821	GAAATGGTATTGACTTGTGGTCTTGATAT	AGCCCATGTTCTCCCAAAACATG
scaffold827	AGTGAAAAATTTTACCACCTCCACTAG	GAGCTGAATGAATACCTACAACCTCTTTCAG

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold833	CATGCATAGACTTTGTTTACAAGGAACA	TACCTTTTTTGCACGTGGAGAAGTG
scaffold835	GCAAAATAGGTGTGAAAAGAAATTTTTAGTGCA	ATTATATTCGAATCAAATGACATGTAATGAACGG
scaffold837	CTCTCAAGTTTTCTTACAAACCAATAACTTCAA	ACCAATAACATAATAGGTTCAGTTGCCTTTATA
scaffold839	TGTGCACAAGTTGATTGAGGCTT	AACCATTATATACACTATGCAATGATATGATGAT
scaffold841	TTGATGTAGGATTTTGGATGATCCCAAG	AAAGTATGGTGGTGAAGATTGAGAGTGG
scaffold852	GAAGTTCTTTATCTGGGTTCATTAGATGAA	CCATCAACATAGATGTTTAGTGGGCAATT
scaffold859	CTTCCTTTGCTTGAAATTCATTTCAGAG	AGCAAGGAAGGTCTTCAAATGGAAT
scaffold871	TCATCGGACCTCGTCTCATTAC	GGAATATGCTCCATCTCGCTGATG
scaffold875	TTTTATCATTTAAATCGAACCGAAGTGAAGTCT	TTTTTCGATTCTTGATAGTACTTCTACTACTTCA
scaffold878	GATATGTTTCTGTATTTTACCGTTGCAAGTC	ATTCTACTAATTTAAACCACGCTAGGAACAT
scaffold886	ACATGAAATATGTCGTGGATAATATCTGTTT	CTTGCTTGTCTGATGGTAACTTGGT
scaffold887	TCCGTTTCTAACAATCTTGCTCTCATCG	TTGAGTTGTGCTTTCTTCTCCCATC
scaffold892	TAAAAACATCTAGGCTTTGAACCATATGGTT	CATCAACACAGGCTCATCGAAGAG
scaffold895	AAGTGATTTAGCAATTCATTTAAATGACACTT	CCCAAAAGTTAAATCCTCTCTTGCTAGTTTC
scaffold897	GTTACAAATAAACACTCTTTTCCCTCTCTGCA	CATAATAGTTTTTCCACTATTAGTATGGGTGAC
scaffold905	CATTTTCTCTCACCATAGCTAGGCTTT	GCAGTAGGATTGCCTAAGTGGTC
scaffold908	AAGAGGAAACCAACATTTTAAACAGAGCC	CACAACCTAAGCTCACCCTCTTAACTTT
scaffold917	GCAGCTGTCTGTAGCACTTGTTT	TCCTTGTTTCATTTTCATTGATTTGTACGTGT
scaffold920	AAAATAAAATTACACCTAAAAGTGCCATGCAC	ACCAATAAGCATACGTATAATATCAGTAAGACGT
scaffold921	AAAGCTAAAACAGTCGTTATTTGTGGTTAAG	AACGTAGCCCATATTATTTGAAGTCCAAC
scaffold924	CATGGATCATGGATCATGAACGGTG	ACGAGCTTTGTGCGAGTAGATACA
scaffold925	ACTGAAGTTTAACTGAAATCAGAAGTTCTA	CCTCCAATGCCAACTTTTACTGTCAA
scaffold930	ATTTTTTCAGTGGGCAATTATAGGCCTAG	AGGCATACCAATTTTTGTTTCACATGGT
scaffold936	CATGAGAAATAAGAAGCAAAAACACATTGCA	TACAAGGTTTTAGTAGGTTGAGAGTCATCTA
scaffold953	GGTTACTAATTGTCAATTTGGTAATGTTTCCATC	TGTGTATGGGTTTGACACCCTTCG
scaffold958	GCATCACTTTCCCTTCGGCTTTAACT	CTTTGTAACATGAGGCAAGGGATAAAATCT
scaffold962	CCATGTCTTGCAATTCATGGCAAC	AGTTACTCTGGTTTTTCATTTCTCTTTGGAAT
scaffold963	CCCAATCTTCATACCAAAACCTTAAACCA	CGACTCCTCTATTTCCCTCTTTTCTCTCTTT
scaffold967	CGTTTATGTGTTTCTATTTGGAAACCCAT	CACAATGATGGATGGTGGTCAGATT
scaffold971	GAAACACTGCAAAGGTTAAGATATGCAG	TGTGGTTCCAAATTAAGCAGAACTAGTT
scaffold978	AGGAAGATCATGTTAGTGCCATTAATAACAG	ACTTTTAGGGATAATAGTTGAGCCTGTTATTTT
scaffold981	CCGAAATGAGCTTGATGTTTGCTT	AAAAATTGAATTTTGCGGGTCTCAAAAATAAT
scaffold983	TACTTGCCACCACTTGTTCCATC	TCCCTCTTCGCAAACTAAGAATGGC
scaffold995	CCACATGAAATGAAACACTAGCAAGTG	CCAGATAAAATGGAGTTTGTCTTCTTGTAGT

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold996	AGTTCCATCGGTTGTGTTCCATATCT	GAAATAAAATGAAAAACCCAAAACCCCTTGTT
scaffold998	TGGGCAATGTCTTTGTTCGGAT	TCTTAACTTAAGGGTACAAATTAACCGTTCAAT
scaffold1014	CAACCTTGAGTTTCTCAAACCTAGACGC	TGTTCAITCCCTTTCTAACTTTTAACCCCTTA
scaffold1035	AGAACGTGCTTGGATAAGCATGAC	TCAATATCGAATCATATTAATGTGGAGCCAA
scaffold1045	GATTTCTTTCTTTGTATCTTTGCAGGGAAT	CAATATTTACCTTTTACCACAATGTTGACAC
scaffold1046	CCCTGCAAAAACAGTGGTACAAT	GTAGAAAATGAGAAACAATGACCTGCATTAA
scaffold1049	GCTACTCCGAAGCTATTGTCCCTT	ATCAAAAGGTAAGTGGATATCCAATCCAGG
scaffold1056	AGCTAGCTAGGCCTTAAATTTGAAAGTC	GTGATGGACCGGTAAGCCTAAAT
scaffold1061	TGAAACAGAAAATCCCTATAAGCTGCAT	GTAAAATCAGCAAATTTGGTATCAAGGCTTT
scaffold1068	TGGATGGCTTTTCAGCATGCATAT	TGGCATTTAATTGACAAATGAAACTACGATA
scaffold1069	TCGTGTGGTGCAGTGAAATCAT	GTTCAAAGGCCCAAAATTCAAACCTTATT
scaffold1077	GTTGAGTAGTCAAGCGCATAGAGTT	CCTCACATCATTTGATACTTAATCCGATGAT
scaffold1080	TTCAAGATCCATGTTTAGGCCCAATT	TGAATCCTTTGGTGGACACCAAAA
scaffold1082	GTGGAGACACAAAATAGAGTCTCATTTGAT	CCAAGTGTCTATGATCTTCAACATAAATTTT
scaffold1095	GGACCGTTCTTCATTATTTTACTTTTTAGGGT	TTTTTCTCTGTAGAAATGTCTAGTCTGGTTCC
scaffold1096	CCTTCTGGATCGGCAGGTTATGT	GTATGGTTGTAAGCAAGTAGTCTAAACTCTA
scaffold1098	GAACTGATGAGGAACTGCCAAAAGA	CCTCCTTGGACACATGTCTTCTGC
scaffold1101	ACAAAATGCATGTCATTTGTTGAATCAC	TGGCCATATATGGTGGTGGTAGTA
scaffold1102	AATAATCACTCTCAAGTCTCACCTAATCTA	TTAACTGATCAGAGTCAGACCAGCTAT
scaffold1105	GACAACCCGTACCTGTCAGAAAA	ATGAAGCTGCCAGATATCTTAATCATCTC
scaffold1106	GGGAAAGAAATATAGCTTGAATCGCCTAA	AGACAAACCCAAAACAAGAGAAGGATAATAA
scaffold1111	CCATTTAAAAAGAGATTACAAAGGCACCTTG	GCAACAGGTTTGCAACTAAAGAGGT
scaffold1115	TGAGTGTTTATGGTTTTGTGACTTTTGTCA	CGTAATCCTCATTGATTTTTTACAAGTCAAA
scaffold1121	CCCATTTATTTTCTATGCTTAATTTCTGTTTCCAT	TGATGCTTTAATCTCCAGTTTGTCTTTCAA
scaffold1131	TTTCAGCAATCTTTTGAATCATACATAGAGAGAG	ACAATCATAATAGGATCACAGATTTAGATATGGA
scaffold1135	GGCTTTTCTCTGTCTAGATGTTTAAAAGCA	GGCAAGAACATGCATTAGAATACTTGCA
scaffold1137	CTGCTTTCTGGTTGGAGAAATTCGT	GATGTTGCACACATATCCGAATCATGA
scaffold1141	GTGATGAACAATATGACAACAATTTAACAAGCA	AAAGGTGTTTGAAGATAGTATGGTCCATTTT
scaffold1148	GAGTAGAGTGGTTGGGTTGCTTT	GCTTTTCTTTGTGGGTTGTGAGTG
scaffold1152	GCAAGGTCAACAACCTTTAATACCAAA	GGGAGAGAGAACCCTATTGAGAAAAAA
scaffold1162	AGTTTTGTTTCTCCACCATTTGAGCTT	TAATGGCAGCTGCCATTGACTTT
scaffold1174	CATTTCCAGAATCAGCGCAAAAT	TTTGGTCAAAGTACTGTTAAATGGCCTAC
scaffold1183	ATCGTAACGAACCTTCATAATACCTCTAAGCA	TCAAAATTACGTGTCGTAAGGTTCCCTC
scaffold1191	ACCTTAGCAACCTTTCTTTTGCTCAA	CCAAGCATGATTAGAATGACATAAGACCATT

表 A.14 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
scaffold1192	CTAATGCAGCCATGCCTTTGTCA	AAAGTTGGTAATTCTGTGCATGGTTGA
scaffold1193	AACCTTTAATGCTGTCATATCGATCGATC	ACATATTTTCAGCCAACCTGAGTGCCTTAA
scaffold1195	GATCAAACATTTAGTGGCTTCTTGCAA	ACAATATTACCTCTGAAGAGTGTAGAGCAG
scaffold1196	CTTTCGTAATCGAGAAACAACTATTCCCA	CGATATAGAGCATCATAGCAATTCTCAACAA
scaffold1207	TGTGAACTCTATATTATGGATTTGACTACCTT	GGCCTTAATAATTACTTTTACAAGTTACGAACAA
scaffold1208	GACAGCGGTAAGGTCTCTCTTTT	GCAAAATCAGGCAAAATGCTATTAAGTGAAT
scaffold1209	CTTACTTAATGAGTGTCTTTTTTGCTTTTGT	ACACATTGGGCCATTACCCATTTG
scaffold1210	TCATCAACATCTCCATTATGATCGGAAAAAG	GCAGTGAAGAAGCTCAACTTCGTAGC
scaffold1211	TCTGATTATTAGGCACCTATGGAACATGAT	GAGAAAGGCAATTGAGGATTCGAATGA
scaffold1212	TTGAAATATCTGGAGGTGTTTCAGTTGAG	CCCAACTTGCTTTGGCTTATGCA
scaffold1215	GAACAAATTTAGGGTGCTCATAACAGATTTT	CTTGCTCTGTTTGCTATTGTTATTGCTG
scaffold1217	TAGTTAAATAAAAGAAAAATTTGAAGGGCGATGGC	TGAGAAAGAATCTTCCAAAGTGGGAATT
scaffold1221	GTTTCGAAACTTGATCAGCAATTGCTC	CTTTATCATGACAACCCAAAAATGGATCAAA
scaffold1238	CCATACATAGAAATGAATGCAGTGGAACCT	ATTTGGAGTATCCCAAAACCAGATATTTGAC
scaffold1243	TGAGTTTTATCTACATTCGTCACCTCTTCAGA	ATTTTAGCCAAAAGTTGGTACAAGAGATCC
scaffold1255	ATTCACCTACATCTCTTCTCTGTTTGATGTG	GGAAATACCATACAGCTGTGATGGTAGC
scaffold1272	GAGAATGGCATTGCAACGCATTAA	TGACCTATAGTACGCTCTAACCATTGAAAA
scaffold1275	TGCTAAACGTGGAGATAGACATGCT	ACGGGTTTTCTAAATCTCTGGCATACT
scaffold1284	AGATATGTATAGACTACATCCACATGAGCTTA	GGAACAGTCTTTTGAAGATTCATTGTCTTTTAA
scaffold1288	CTTGAATCATGCACTCAACGCTAT	CCTTAAGGGTAGGTTACAAATCTCCCTTAA
scaffold1301	TGAATACTTGACCAAGAATTCTCAGTGAC	GATAAGTAGGGTTCAATTAGAGAGCTTTAGCT
scaffold1314	AAAAAGTCGAGGGCTTGTAACAG	GAGACTTACGTATGGTTATTGTAACACCAAC
scaffold1320	CCAGCCAAGTCACATAGAGGATG	TGTGTGTGGCTTCAAACCTTATTG
scaffold1383	TCATCATTCATTCAATCTTAGCCGTCATG	GTTGTAACGACTAAGGGTTGATGGATTAA
scaffold1414	AGAGGGATCTATGTTTTTCATGATCATTGAT	TGAATGCAAAATGGTAGACCTGACAAA
scaffold1424	TCAAGATTGCAAGTTCAAATCTCACTTCAA	CCAATCAATACTGACATTAAACAAAAACCCAA
scaffold1591	ACTGTGATACATTGCACCCTGTT	AATTATGCAATAGGATCCATGGATATTTATCAT
scaffold1601	TTCAAATTTTGAGAATGTCATCTTGACAGAT	CAATGATGCATCTACCTCTCTACCTTTATGG
scaffold1633	TGGTCCAAGAACTTTGAGAGCATAATGA	ATCAACCACAGCATGTGAGGAAG

A.15 荔枝 MNP 标记引物

荔枝 MNP 标记引物见表 A.15。

表 A.15 荔枝 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	TTAATTTCCGTTTGTCTCTCAAAGTCCTT	GCATCCTGCCACTGCATTTAAGC
LZ01_spades	TATATAAAGTCGATTTGGTTGGTGGCTATGT	AAAGTCAGCAGATTTTCAGAATCGGTT
LZ01_spades	CACTGTCCTAAAAATTAGGCCTTTCACC	TTTATGGTGGTTACGTTTCATGGGTTG
LZ01_spades	AGTAAAAGCAACAAAGTATGATGTGACTTA	GATAAAGTTGTTGCGAAGAAATCTACACTTG
LZ01_spades	TGAATTTTCAGTTTAGCCCACTCTCATTT	GATCCTTGATTATCACGGTAGCCAATTG
LZ01_spades	TTTTTCTGCTAGTGATCCATTTCTCTCAA	TACCACCACAAAACAAATTTGAGATCATTTGT
LZ01_spades	TTTGAGTGATTCAGTGGCTAGCATA	GAGCAAAACGAAATAGAGTGGTTGTG
LZ01_spades	GCTCAGAACATCCCTTACCTCTAACC	ATCAAGCACACCAACCTTCAAAAACAGGA
LZ01_spades	ATCAAATGGGAAGACACGAGTTTAGAAC	ACAATAACTGATAAAGTTAGTGAAATATGCCCT
LZ01_spades	GCTTGCATCTTCATTTACTTTTCACAAAACA	CAGGAAGGAGCTGGAGTTGATTA
LZ01_spades	AATGCTTATGTGTGTAAAGAATCTGGAGAT	TCCAACCTGGACAAATATTAATATGGGCTA
LZ01_spades	TAAGGCATGATATGCCCTCAGATTGTGA	GGGTCAACTAACTGGATTCTTGCTAATG
LZ01_spades	CCCATGCGTTGTGTATTTAGTCCG	AATCTGATCTTTGGTCTCCATTAGACAACC
LZ01_spades	CTTCAACATGCTTGTATAGCTCAGGAG	AAGAAGTAGAAGTACTATTCTTTGCATTGT
LZ01_spades	GCCCAACAATTGTATTTTAGCTCTGAT	GTTGTAGCTAGTGCTATGGTTGGAC
LZ01_spades	TGTTAGATTTCCATGAAAATGATTACTTCTTGCT	CCAATCTTTGAGTTATCTGGCTCCATACA
LZ01_spades	TTTTTGTA AAAATGATTTTCGAGGAGCTGTTC	TCACAATAAGCCACACGTCGTAAC
LZ01_spades	GCTTCCATGTCCTTGTGATGTTACT	TCTGCATATTCTTCAAGAGAACTCAGTGC
LZ01_spades	AAGTAAAGGTTACATGAAAGTAAGAGTGTT	GCCAAACATCTAACCACAAAACCTGC
LZ01_spades	GAATTTTGGGTCAAATTTGGGCCTTT	GGGTACATACACAAATGGTTGAAATTTACAAT
LZ01_spades	GGGCAAGTAAGCCAATGATGAAAA	CAACTGTGTAGAAACCAACAATCCACA
LZ01_spades	GGGAGACAATTGCTGATAAAGCATCT	GGCCTGCCAAGAAAATTGCTAAGC
LZ01_spades	TCGGTAAATCTTAAATAAGCCATGCATACTA	CAGTACATATCTGGGAACATATTCATCGTTG
LZ01_spades	CAAAGTGGATGCTCAAACTGAAGGT	GCTTGAAAGTAAGAACAATGGGAATACAAAG
LZ01_spades	CCTCAGCCAACGATGTATCAGCC	ATCAGCCTTTAGAGGTGGGAAATGC
LZ01_spades	CCGGTACTCTTCTATAGCTTCTTTGTA	GGTCGAATGAAGTCAATTCTGGGAC
LZ01_spades	CCTTGTAGATTTGTGTCTTTTCAGGTG	CCATAAGCTTACTTTGGCGTATAAATCCTTC
LZ01_spades	GTGTAGGGAGGGTATGCAACTTA	ATTCGGTACACATGTTTGTAAATGTAAACGG
LZ01_spades	CCATTTGCAAAACACTCATCTGCAC	GGCTTCTGCAGATTCATTAATTTGTTCTACA
LZ01_spades	TGCATCTAGGCCGATACTACCAG	CTGAAACCAACAAAGGGACAACCTCTA
LZ01_spades	TTGCAATAATGCTACAGCTACCTGAA	ACCACTGTTAATGACTGTTTCAGCAAAA
LZ01_spades	TTTTGTACGTTATTTTGGAGTCAAAACGTT	CCATCTCAAAATAAGCTCCCTAATCAACCT
LZ01_spades	CTTTCTCTCTAACTGTGCTTGGGAAC	AATGAGAAGCCAACATGAGGCATAC
LZ01_spades	CATCTATTCAGGCTAGCAAATTCATACGA	TTTATTCTCCACAAATGTGAATTTCCATGGC

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	GGTCCATTCCCTAGCCAAATAGGT	TTTAGTGATGGTAGTTCAAGTTTCAACATACTC
LZ01_spades	GAAACGGTGCCTTTTCAGTCATTT	CATGGAGGGACAGAAGAGAGAGTAAC
LZ01_spades	GAGTATCAATTGGCGTCAATCATCTTGG	GGTTTAAGTACCTTTTGATCCTCAACCTA
LZ01_spades	GGTCCCTGCTTCTCTCTTATATTCCT	CACTAGACTTCACAGCTTCTGCATTAT
LZ01_spades	GATTTGACTTGGTGATTTTACGAAATCTAGCT	ACCATCACAAAATTTATAGGTAAAGAAGTGACTT
LZ01_spades	ACGAACCACTCTCAAGTTAGAAAGCC	GTATCTACAGAGTTCTGGTGCTTTTGAAG
LZ01_spades	CTCATCTAAGGTGATTATAGTGAAAGTGCAA	ACCAGTGAAGGTAAAAACCGTACACA
LZ01_spades	GGATTTCTTTCCCTGTAACGCCATC	GTCATACATTTGCCCTTACTTGGATTAACA
LZ01_spades	GAATCGACATATTGCTTCAGGGTATCAA	AAATAAGTCAATCCAATTGAGCTTTCTTGAG
LZ01_spades	ACAAATTGATGAAACCCAACCCAGTAA	TATTGGAGAAAGGTTGTATCTGCATCAAAT
LZ01_spades	ACCCTTCACTAGGCAAATGTTCAC	GCAAATCTTTCTGGGTTGAATTGGTG
LZ01_spades	CCAAACCACCAATTCTGTTTGATTGAG	TCTGAAGTTTGTGATTCACATCGGTG
LZ01_spades	TGCTTGCAATGTTTGGGAGGTTAT	ACCTTATCATTATTTGACTGCACATTTGTGA
LZ01_spades	GCAATTCAGGACCAGACACCATTT	GGAAGAATGAATACAAAACAAAAGGGAACAAAA
LZ01_spades	GTAGGCTAACAACTTGTTTCTGCTTA	AGAAATACCATCTTCCATTGTACAGTTGACA
LZ01_spades	CCTCTGATTTGTGGTAAAGTTAAACAACAAA	TCACTATACTTCATAGGTAATGCGTCAGAC
LZ01_spades	AACTGGTTTCAAAACCAATCAATATGCAC	TAGTCTTTTCAGGATTCAAGGGTGAAACT
LZ01_spades	TCCAAAACATGTTCCCTCACAAGAC	CACATCTTCTTCCCTCTAATATCAAGGATTG
LZ01_spades	ATGGAAGGAAGCTTCAATGTCTTCTT	ACTGAAATGTTGCAGGTTTGCAG
LZ01_spades	CAGAGAAGCAAAAGAGTCACTAAGCAA	ATCTGTTTTTGGCAAGTTGGTTAATCTTG
LZ01_spades	AATAAAAATTCACAAATCTCGAAATCAATCGGC	GAGAACCTTACATGGACGTGCAA
LZ01_spades	GAGAATGATTTGGAAGAAAAAGCAATGGAC	GCTAATGCAGATTCTAATGGAAGTGGTC
LZ01_spades	ATGAGCGCAGCCAAGCACATTTT	AAAATTGTAGTCTAGCTTGGACTCTTAGCC
LZ01_spades	AGACTAGGAAGGTACTATTAGTAGTGTTCAT	ACTCAACAAGGGCAAATCTACCAC
LZ01_spades	TAAGCATTTAGCGAGAACTAAAGGGAAAA	TGATCAACTTTGCTAAACATTTTGGATCCA
LZ01_spades	CGTTCTGTCAGGGAAAATGGGTG	ACCTATAAAGGTCACATTGAACCATGACT
LZ01_spades	AGTATTCACAATCCCAGTAAAGAAACAAG	GAGAGGGATAAGTGTAGAAACCAAGAAATA
LZ01_spades	TGGATATGTTTTTATTTGCTGCATAGCATGT	AGAAGATGAAAAGAAGTTGATTTTCCCTCAT
LZ01_spades	TGTGTTTCGTTAACATGCATTTCAAATCG	GGCTTTCCATTCTCTCATTTTGCATCT
LZ01_spades	CGATCTTTGATTTCAAATTGAACCTGGAT	GGGTGCCGTGTAGATAAGCTTTG
LZ01_spades	ACAATGGAGGGACTCTATCGTAGAGA	GAAGAAGGGTCTTCTTTTGTAAACCAAAAAA
LZ01_spades	TCAAGGGTTTACAGAAATTTTGAATTTAGAAA	CCTATGCCACGAGATTGTAGATCCG
LZ01_spades	AGGTCATTGGAAAGCTTAATGTTCTAAGTT	CTAAAGAATCAAGAGATGATATGGTCCCAAC
LZ01_spades	TGAAGGGTAGTTTAACCTTTCAAAGTCAA	CGATGAAAGTCCACCAACAACCTTTATC

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	AGAAAATGTTAATGCATTTGAACTTGCCAT	TGGATGCTGTACTAAACCCTCACTG
LZ01_spades	TTTTACACTAAATGCCACCATAACAAGCA	GAGGATTTGGCAGTGTTTACTGGG
LZ01_spades	TCCTCTTAGCATCTGTCCATTATTATTTGCA	ACTTTCTTCACATTCAGAAACCAACATCA
LZ01_spades	GGTGTCTCCTGAAAGCCCAT	TCTTTCATTTGCAAATGTAAGTATTGTGAAT
LZ01_spades	CACTAATAAAAAATGAGTGGGCGTTTTTAGGT	CCCAATCCATTAGCAAGCCAAAAATCA
LZ01_spades	TACGACCTAGTGTAGATGCCCTTG	ACAATTCCAACATCAATGGCTCAACT
LZ01_spades	GCTCCTGCCATAGCTTTAAGTATTTCTT	GACCAGCTATGTGCCATCTTCAC
LZ01_spades	CAACATCACTAGGCAGCTCATGAA	TGCTTTGATCATGGCTGCATATCTC
LZ01_spades	CCAACCCAACCTGGAGTGTGATG	AAACTCTCTTTTAATGGGATATTGCACTCAA
LZ01_spades	GCCTTTCCTTGAGAATTAATGTCAATGGG	TCCTCCAGCTTCTCTTTCTTTTCGG
LZ01_spades	TCACATTATTGGTTTCGTTTCGGGAAT	GTCCGATTCCTGAACACTGAAATGAC
LZ01_spades	TGCCTTTCGTATACCGGTTGTTC	ACAAGCTAGATAAGCTGCACAACAC
LZ01_spades	TTGCGCTATACATAGCATCTCCCA	AATAAAGAAAAACAGTTGCCGAAAATGAGAG
LZ01_spades	ACAAAATCACAAATCTAAGAATTCAACGCAC	GCAAAGTAACTACCAAGCCAGCATAC
LZ01_spades	CCTAGAAAACTAGATTGAGATCAGGAATCGA	GTCTTATTTGACATATAAATATGTCAGTCCCAA
LZ01_spades	TATAGAGTTCCAATGGAAAGACCAAAAGGA	CATTCACCACCAAATCGCTATCTTCA
LZ01_spades	TAATGTTGGACCTTAATATGGAATAATTGAGCAA	CCCATATATAGACAAATAATGCCTGAGCT
LZ01_spades	ATATATATTAGATCTTCTCATTTGTCCATCGGTG	AACAAATTGAGATGCATCTTTACATTTACTTAAT
LZ01_spades	AAATCTAGAGGAAATGGTCTCTAGTAGTAGG	ACAAAGGACAAAAGAAAATTATAACACTTTGAAA
LZ01_spades	AGTAGGACTCAGGGATCTAACTATGAAAAC	CAAAAATCACAAAGCAATGAAATCGTGATTT
LZ01_spades	GCTGGCATGCAAAAATTACCAATCA	GACATGCAACCTACCTACATCATCAAG
LZ01_spades	GCTTATGAGTTACTGAGATGACTTGATTTCTT	AGGAATGTTCTTAATAACATAGAAGAGAAGTGCA
LZ01_spades	GAAGCAATGCCAAGGCTTGTTAA	AGAAGTGGATGCCCTTTATCTTTAACCA
LZ01_spades	CATGCCAATAGTTGTTTCCATGCTT	GGTTGATTTCTTTTCAAGGATGATGAATGGA
LZ01_spades	GAGCATTGCATGGAAGAATTGACCA	CAACATTTGCTTCTTCACTCATCTACAGC
LZ01_spades	GCATCAATAAAGACCAGAAACAGAAATGTT	TGGAGGATGTTAAGTTTATAGAGTCTGGTA
LZ01_spades	GGGAGGACATAAGGATTTCTTCCAG	CATTTGACATGATAATATCCCACTGGGATTT
LZ01_spades	TCTATAATAGGTTGATCGAGCAAGGGAAG	TGTGATGTGAATAAATCTAATGCTAACGGAA
LZ01_spades	GAAGGAACATCAGGGATTGACAACA	CTAATGACCAAAACAGATCAGCTCTTGC
LZ01_spades	CTGTCCGTTGACACCTGAAGAAG	CCCACTAACTGCATGGAGAAAAATATGC
LZ01_spades	TCGTGTGGTTGGTTGGTGTAAT	TTGGGTGCATGTAATTATTCATAGGATTGAT
LZ01_spades	CTCAACTTTGAGGTCAAACGATTGAC	GTAACGCACGACACGACTTTTCC
LZ01_spades	ACCTACCTCAATTACAGTCCGTAA	GGGCATTCATGGGACATTTGTCA
LZ01_spades	AAAGGCAAAAAGAGACGTGAAGAGATAT	ACATGACATATTTCTATAGTTACTGGCAGGAC

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	CCATCAGCTCCAACAAATACCATGC	CAAGACGACGAGGATCCTGAACA
LZ01_spades	CTCTCTCTCTCTTTTCACATGAATCATGAT	CCGAAGAATGCACATATAATTTGATTCTCAA
LZ01_spades	AATTACAAACCTTATTTTCAGCACGTAAGTGT	TTGCTTGCAACAAGATCCAGATTTGG
LZ01_spades	CTTTCTAGTTTTTCTTGTCTGGGAAACCA	AAAAAGTAAAAGAGTGAAAAATGCTAAACAGAAAT
LZ01_spades	ATAAGTTCAAAAACAAAAACCCAAAGAGCTA	TATCTCCTGACGCAGATAGAAGTGTTTC
LZ01_spades	CAAGCGGAGCAGGCTATCTAC	GCATGTGCCGATACCCGTTTTTC
LZ01_spades	CATCACTTCTCGAAAACAATTCTGAACCA	ACGGAGGGTGTATTTCGGATTTGG
LZ01_spades	GATAATTGAGAGGCCAAAATGATGAGAGGAA	GTACCACTGATAGCTAAAGTGGCTTTTT
LZ01_spades	AGCCAGGTTCTTGCTATTTACAATAAAAAAGA	CTCCTTTGCAATGACATCTTCTTATTAGGAA
LZ01_spades	ACTGTTGGAGATGTGCTTTCTTCAT	CCACTACTGCATGCATCATGCTC
LZ01_spades	AATTCCTGGAAAGTGCTGAGATTGGAATAT	CCAAGACATGCACAAAAATCTAGCCA
LZ01_spades	GACAAACATACTTGCACATAACTAAGGCT	GAGCATGTTCTTAGAGTCAGGATCATTG
LZ01_spades	TCTTACCATTATGTGGGTAACTTTTTCTTGAC	AGGACTTTAAAGTAAAACTTAGATCTCCATTTTTT
LZ01_spades	AGGCAGTTAGGACCTGATACAAAAGT	GACATTCATAAAAAGAGAGCACAAAAGGATT
LZ01_spades	TGCTGAGCTTGGACAAACAAATGT	CTTTCTTGGTCTTTTCTTCTTCTTCTTCTTGC
LZ01_spades	TTTGAATGACCATAGATTGGAATGACCAT	GATTGCTTGGATTTTGGCTTCCAC
LZ01_spades	GAATGAGGCAGCGAGAACAATGT	TACTAGACATTTGGATTTTTCAGGTTGCAA
LZ01_spades	TCAGAAGAAAACTGATGAGATCAAGCAG	ACATTTTCAGCAGAAGTGTGTAATACTTGG
LZ01_spades	GACTTATGAACCTCTTGGGAAACCAGAA	GGCACACAGGTAAACCTTCTAAATTTTAATGT
LZ01_spades	GTTGTGTTTTTACCATCCAATTTACCCAATT	AGCTGAATGATAATTCTGGTTTTTAGAACCTT
LZ01_spades	GTTGTTCAAACCTGTTGTTCAAATAAGAACAG	TGACTGGTTTGAACGCAAGAGTTG
LZ01_spades	TGTGGAGATTTCTCTTTCTGTTTATCAACAC	AAAAAGGTTGAGACCAGCTAAATAAGCA
LZ01_spades	AATGGAAGCCACGTACTATATTTGTCTAAGA	AAAAATAGCTTATAGATTTCCACAATGCCTT
LZ01_spades	GAGTTCTTAAAACAGCCAAATTGGCAA	TTACATGTCTTACAGGAGTTACATTTAGCGT
LZ01_spades	TTCAACTACAACCTCTGCTGTTGGAAA	TAGTGGACCTGAAATGAATAACACACAGA
LZ01_spades	AATGAGAACTTTGTAGTGCTTCATAAACTA	ACATCCAAGACTCATCCATTGTTTACAA
LZ01_spades	TGCTTATTTTTTACGCCAGATAGCAA	GTTTTTCTCAGTATTTTTGTTTGCTTGAGCT
LZ01_spades	AGATACCTACCTAAGCTCACATTAGAACCG	TGTGATTGGAAATCCCATGAAGTAGGT
LZ01_spades	CCCATAAAGATCACAAAACGGTATGCC	AATAATGTGAAGTAATCTCCATATATGAAACGGA
LZ01_spades	CAAGTCTGCCTCTATACTTATACGACACG	CTCTCTCTCTCTCTCTCTCTCATTTTCTCC
LZ01_spades	TTCGCCTGAAGGTAATTACTTATTCATTGAA	GGAAAACACATCTCATGCAACATTAATTCAA
LZ01_spades	GGGTAGTGTGTTTTCTTTCACTCATGT	GCAAAAAGTAATCCAAATGGAATCCGAATAGA
LZ01_spades	CTAAGCATATTTCAAAGAACACGGAGAAAAC	CTAATTCATAAATTGCAGATGAGCTTGAGT
LZ01_spades	AGTTCTATACAACGTATTGTGCACCAG	TCTGTTTTTGATTTAATATCCACTACTACAGCCC

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	CCAGGTTCAAAACGGTGAGTTTT	CCGATATCTCTCTCCGAGGTGAATC
LZ01_spades	CTTCAACCTTCTCTGAGGATCCTTTCT	AAAAGAAAACAAGTCGAGTGAAGACAATGA
LZ01_spades	GCCAGCTGGTCCAAAACCAATAG	TGGTAGACTTTGCTCCAACAACCTCA
LZ01_spades	TTGGACGGCGATTGATGACTT	AGGACAAGACCAGATCATAATTTCAACAAAT
LZ01_spades	ACATAATCTACTGCAGTTAACTGTTCTTTAGT	ACCAGGAGATTGAAGCTGTGCA
LZ01_spades	GTGCTCTTATCAAGCACAACCTCAAAAT	TGAATGGCTGCAACTTGTGATTATCT
LZ01_spades	TTCAAGATTCCATTTTGAAGTATTGACAGT	AGCCACATGCTATACAGTCCATTGC
LZ01_spades	CATCACCTTATCAAGCTCTAGCTTA	ATGCACACACATTTCAATCTCTTCATAATCG
LZ01_spades	GCTTCTCTATTAGCCTTTGAAATGGATCTT	CTTGATTGTTTGCTCTGTCAGAATTCCA
LZ01_spades	GAGGAGACGTGGGCGTTTA	AAGTAGCTCATATACATAATTGCTTTGTTTACA
LZ01_spades	GTGGCAGCATCCTTGTAAGAAGT	CCAAAAGTGTGGAGATAATGCAAATGGG
LZ01_spades	TGCTTCTGCTTCAGAAATTGATGAAGAT	ATGAGACAGCTTAACAAGGCACCAAAAAGTA
LZ01_spades	ACCGAATACCATACATGATTAAACTACACAAC	ATACTCTTGAAATTCTTCTTGCACTACACAC
LZ01_spades	ACTCAAAGAAGATATGGTAGCCTTTCAAAAA	TGAGGGTATCCATATCAAACCTTATGATCCAT
LZ01_spades	CCAAGTTTGGTCCAAATTTTGTCTAAAGAG	ACCTAGCTGAATTGAACAAAGCCTC
LZ01_spades	AGTGCAAGAAGCTTCCCTTCTTCA	CAAAGCATGCTCTAATCCTTCAATAATACGC
LZ01_spades	CATTGATTCTTCGGTTTATGGTTTGACAG	GAGAATTTGCTGGTGCAATGGTTTC
LZ01_spades	TTTTGTAAACAATATCCCTCCAAAGTCCAA	CCCACATTGTTGCACAGTGTATGC
LZ01_spades	AGCTTTGTTCATATGGTCATATTCAGTA	CCAATTCAACAATACTTGCGTAACCAACA
LZ01_spades	GTTGTGAACTTAGTAGACTGCATAAAGTTGG	TGTTTAAAGCACTTACTGGGATTTGCT
LZ01_spades	TTGGTTCCCTCCTGTTAATTTTCATGTACAA	AGAGGTTCCCTCCTGTCCCTTTT
LZ01_spades	TTTTTCCGTGAAAATTCATTTTCTAACATTGG	ATGATATGAATTCAATTAAATCAAAACCACACTC
LZ01_spades	CCCTCATGCGCAATGTAGTTTGA	ACAGAATGCACAGAAAGTCTCCAA
LZ01_spades	CTGGTAACCTTAAAGTAATGTAACCGCATG	ATCCGCACTTGAAGTGGTTGTATAAA
LZ01_spades	CAAATTTCACTATCTGCCCATGAATCTGT	CATTCTCTCCGCTTATTCAAAATCTGGG
LZ01_spades	TGATGAAAAATGGGCCTCTTTCCCTT	CCTTTATGCCTCTGTTTGTCTGTTTTATT
LZ01_spades	AAAGATAGGGAATGAGGGTCATTTTCTGT	TTATTAGGACTTTCAGCATTTGATGACCAT
LZ01_spades	GACAACTTTTAAAGAGATGTATTGCTGCAA	AAAGCTACAGCAGCAAGGGTTATC
LZ01_spades	CAAGTTTTACAGGTCACATATGCATCAAAA	AGCTAAAAGTAACTTCATGTTTTTGTGGTCA
LZ01_spades	TGTGGGACTGATCCCATACCTT	CAACTCTTAGAGCATCCCGGATG
LZ01_spades	AATTCTTGCTCTGTCAATAGTGATAATCCAT	GCTTGATACATCAAGGTAGCTTGCAAA
LZ01_spades	TGAATTACAAGATCGCTTAGAAGATGCAG	GTCCAAGTGCCTCAGTTGATGTAG
LZ01_spades	GATGTCCATTTTAAAGTTAAGGAAAGGAAAATAA	CACTTTTGTATCTACATGGCATTTGTTAATGTG
LZ01_spades	GTAACATAGCTCAAAATCAAGTGCCAATT	AAGAACTTCTGGGCAAGAACTGTAA

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	AGAGATTTGTGTCATCAAAGAGAGACAAAC	ACTTCTCAACTTATTTTCTGGCTTACTTGTA
LZ01_spades	TGCCATGACAAGTTAAATAAGCATGCA	TTTTTGGCTCTGACGTTGCAAAC
LZ01_spades	CGAATATATGCTTACCCTCTAGAATGAGTAACG	ATGATATCCATGTCATATAGGAAGTAAATCCTTT
LZ01_spades	CTTTCCTTTCCCTTTATTCGATTTGGTAAGTATGAA	AGAGTGCCTAAATTCGAGTTCAACCT
LZ01_spades	GTCTTAGAGAAAAGTCCAAGAAGATGAGTTA	TCAAGTCAAAAGAGAGATTTGACACAAGTA
LZ01_spades	TATTCGAATTCGTCAAGGGCATGACAT	ATGTACTTCGATCATACAATGTAGAATGCAA
LZ01_spades	AAAAATAAATTTGTATTTTCGACAAGCAAAGTTGA	TCCCATGTATATGATATAAGTAACCCAAATGGC
LZ01_spades	TGACTCTTTGAGTGGAGGAGGAAT	GCATAGATACTGCATCAAGCCCTAA
LZ01_spades	AGAAGAATTTCTATGAGATCAAATCTTGCAT	TTAAGTGATTTATGATGGCAGTTGATCCAC
LZ01_spades	GTATGACTTACAAACCAAGTAGATCTGTGTG	GGTCCTAGCCTTAATTATTTTCTCTTGACAT
LZ01_spades	ACCTGATTTAACCAGTACAAGCGAAG	TGAGGCCTTCTTCTATTATCTGTTCTCTT
LZ01_spades	CCAAGTGTTTGTACACTGTATGACCAA	TTGTAGACATAATCATGCTTAGAATGAACTA
LZ01_spades	TCCCAAATTTTCGTATTTGTGATCATAGAGTA	TTTTTTCGTTGAGCAAATTTGTGCAATAATTG
LZ01_spades	ATAATGCGACATTTCAAGTCTACTTATGTTG	CATTTGTTTCCAAATGACAAACATTGGTCA
LZ01_spades	CAAACCTCCAAGATTTTCAAGTTTTTGAGG	TCCATATTTGAGCTTTTTTAACCTCCCTGTC
LZ01_spades	TCCTAAATTTCAAACACATGGAGAAAGAAG	GAAGCATGAACAAAGTGGCACTATCA
LZ01_spades	CCAATTGCATCCCATGGTCTTCC	GTACAACTTATGTGATTTGGCATTTGAGTTT
LZ01_spades	ACCTTAGCATCTCCAAGAAAATTGTTTCTA	TAAACTGAGTCCTTGAAGCAAAGTGATG
LZ01_spades	CCCTCCTGATTGACTTGTGCTTG	CTTGACTCCTGCAGTGGATCAAAC
LZ01_spades	GTCAGCCAAGGAGGAAAGCAAATTC	TCAAAAGTGTAAGTGGAGGATGCATC
LZ01_spades	CACCAGTTTCCCACTAAACCCAT	GTTGGTGTAACCTTAACACATCAACAAC
LZ01_spades	ATGTGGTCATCTTATCTATCAATTTTCAAGAT	GTTCTTGTAGATTACAGCCTTTTGATCTTGC
LZ01_spades	TCTGTAAGTTTAATTCAAAGTGCTGTATCTGAT	TCTCCCATTTGGATCAGCAATATTCAACA
LZ01_spades	TGTTTTGGACTTAGTCGTAAAGGTCATAATCG	AAAAATGCTTGCAAAATGTCTCCAAAATTTT
LZ01_spades	GGCAGAGCAATGCCGTAACTAG	TGTCTCTGCATCCTCATTTCTTCGT
LZ01_spades	CCCTTTGTCTCTTGCTTAGGCTT	ATGCCGACAAGCAATGCAGGAATC
LZ01_spades	TATCAACTAGAAGCATCACGTCAAGAAGG	TTCTTTCCAATCTTGTTTGACTTCTTGCT
LZ01_spades	CCCAACACCCACACATATATATAAGCTG	CTAGAATATGCGTTGAGTGCAAGTTTTG
LZ01_spades	GGCGGTCGAATGATTCAAAGTAAT	CCGCCAACATTTTTCACGAAATTCATTAG
LZ01_spades	TTGTCTAAGGAGAGGTACCAGATCTGT	ATGGATCCAGCTGAGAACAGAAAAA
LZ01_spades	CTTCAAGGCAAGGCTCTTGGTAG	GACATCAGGTCTATCTAGCAGATTTGAGT
LZ01_spades	AGAAAGTGATGAGATCAGCAAAGAAGTA	AAATACGGTTGACCTGTTGATCAATGA
LZ01_spades	TCTGATGAGGAGGACAGAGATAACAGT	GCTTTTTTAAGTGCAATGTTATGATCTTGGAT
LZ01_spades	ACAGTGATAACAGTCTAATAAATCAATGGTC	GGTAGCATAGTTAGACTCTGACAGGAAAG

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	CGAGCTGCAGTAGAAGAGGGTAT	CAGCTGACCAAAAATAAAATCCCAAGAAAA
LZ01_spades	TGGATGTGGTTGTTTTCTCAAATTGAGC	GGCCTGTCAGGACTTTTAAGTCTTCG
LZ01_spades	AGTGAGGCTGAAAAGAGGCATTG	CTAAGGTGATTGCAGATTTGCAGATG
LZ01_spades	CGGATTCCTATTAGCAGGAAACTAAAACAACA	GGGTGAAAGATGCATTCTATTACACAGC
LZ01_spades	CTAGGTCACCAATCCCTTTTGCTA	AAAATGATTGGAAGAGTGGAAGTAAAGGTG
LZ01_spades	CTCTATTGTGACTGGTCACTAGTCTACTG	TCTGTTAGTGGTAATCATGGTAAGCAATGG
LZ01_spades	GCAGGATTAGTGCTTGCCCTTTT	TCTCCTTGTAAGATGCATCTGACAACT
LZ01_spades	CCTAATCTCGTGGAGTGATCCATGG	ACAAGGATTGTGCCATAAAAATTTCCACC
LZ01_spades	GGGAAGATAGGAAAAGGGCACTTG	CACATAGTCACCATGATGGGACAC
LZ01_spades	TGTCCAATCTGCTAGGCCCTATG	AAGAGCTGCTTCCTTAATAGGCTGC
LZ01_spades	TGCATATGATGCAGACTCATAATTGTCTT	AATTGGTGAATGGATGCATTTTATAAGTGAG
LZ01_spades	TACAGGACAAGCAATTTTCTCAGCAA	TAGTTTTTATTCCATATGAGCTGCCTTGTG
LZ01_spades	TCATGGTGGCCATCAGAATTGT	TCAGCATATTTTGTGAGGAACAGTGTG
LZ01_spades	CATGGGCTATTCTGTTCATGGA	AAACGTTGATGTTTTCTCATAACCATAGCT
LZ01_spades	ATGAAAATCCAGAGACGAGATACATAAGCA	TTTAAATGTGATGAGGAATGAACAAGGGTAG
LZ01_spades	CATAAATTGCTGTTCACTGCCTAATGGA	ACATCTACTGTTGATTAAATGTTTGTGCATT
LZ01_spades	CCAAATTCTGTTTCAAACCAACCGTAC	TGATATGGCTCCTTGTGGAGTTGA
LZ01_spades	TGACAGTGATAGCTATAATCCAGTTCCCTG	AAGCCTAATAAGTCATTCTGCAATCAGAAA
LZ01_spades	AATGAAATTGTCTGCAATGTTTTTATCCCAT	TGTAAAAGGACCTGTGACTGTCTCTG
LZ01_spades	TTGTAATGAACTAGTGATGTTATCACTAATCCT	ATCCAATTTAAAAGGAAAAGAACCAATGGGA
LZ01_spades	CAGCTCAAGCAAGAGCACAAATGA	TCTCGATTACCTGGGATGTACTT
LZ01_spades	TTCAAGGCTTGATAGATTAAAGTGATCTGCA	GAAACTCATTGTTTCCATCTTGCTGATG
LZ01_spades	GAGATCTAGTCCAAAGAAAGCTAGAAAGTGA	TGGTCGTTTTGGCTAGTGTGAAG
LZ01_spades	GCGGCATCTCTACTAGCATCAAA	CTAAACTTTGTCGTTTGTCCATCTTTCTCT
LZ01_spades	ATTATCGCCTCTTACATATCCAATCATAATAAAC	CCAACCTAACATAGACTAATCCAACCTAACCTAACT
LZ01_spades	AGATGTAGATTCTACGATTTTGCTTCTACGT	CTCCACGGTAACTTCCCATCTTTC
LZ01_spades	CGAGAATATTATACAACGGGTGAAATTCAT	GGTAATGTTGTATGAGAGCTTTTGCCATAG
LZ01_spades	TGGTAAGGAGTTTAGCATCTCTCTGTG	CACAGTTATCACTCCACAACCAAAGAG
LZ01_spades	CTCCATCATTTAATTAAATTTCCCTGTACCACCA	CTTGTTCAATAATTATTTACTCTTGGGAGATGAT
LZ01_spades	CATGGTCAAAAATAAACTCACTGCAACAT	GAGCAGCTTCTATACCAACCAAGTG
LZ01_spades	ACCATAAGTACATTCACTAGATCCTAACCAAG	CAAAGCAGTAAACCTGCAAAATTTCTGT
LZ01_spades	GCATTGCAGTTGAAAAATGTTTAGATTTTAGAGT	GCTGTGAGTTCTAATATTCTATGTAGAGCTC
LZ01_spades	ATTTGTTAATAGTGTTATTATAAGTTGCTGGTGA	GAAGTGCTTTATGCTTTATCATGATCTTTATTA
LZ01_spades	CATGGGTAAAGCAGTCCTTCGAAT	CACCTATAGAGCGTTTTCCATAGTGTTT

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	GCACTTTGTTTTACAACTATGATGCCAA	CCCAACACCAAATTAATCCTAATTTTTGAA
LZ01_spades	GTACATTGAAAAGATGGCGCAAAATATATCAT	CAGATTTGAACGGTTTTTCATGCAGATT
LZ01_spades	TGATTGTGTGTGTGTGTGTTTTCTGTTGG	TGATCTCCTATTCCTAGATTTTGAAGCCAT
LZ01_spades	CAGACTTTGAAACATTTTGCAGGACTG	AGAATCACCATAACAGTATAGCTACACTGAA
LZ01_spades	AGATATCACCAATTGAAGTTGATGCAGTT	AGATTCTTCCTGCAGAAACGCAAC
LZ01_spades	CCTCAGCCTGATTGATTATTACTTTTCAGAG	ATGGCAGCTCGGAAGAAGCAG
LZ01_spades	TTTTTACACTATTTGCTAGTGTTCAGATTCA	GCCGGTCACAGTACCTTCATCTAG
LZ01_spades	GTTTTGTGTCATGGTCATGGATCTTG	AGAATCGCCTTAGCAGATCAATACGG
LZ01_spades	TTACAAGTTGGCAAATTCAGTGACATGA	GATGTCATCACCCAATCAACTTCCTA
LZ01_spades	AACACTATATATTTCTTCAAGCAGCCTGAAG	CATTAGGTGCCATGCTAGTATACGACA
LZ01_spades	TGCACATCTGATGGACCTATTGGC	GCTACTATTAAACCCTACAACCTTGGTAG
LZ01_spades	ATTTTTGTGATTTTGGTTTTGTCCAGATCTA	CAATCTCTTATGCAACAAAGACCGTA
LZ01_spades	AAGAGGCAAAAAGAATTAGGTGATGATGTAA	TGAAAACATCATGCTCCTCACTAACTCG
LZ01_spades	TAGAAAATTTCTTTTCTTGGTTGAAGGCAAATG	TGATATTTGAATCATTTTTTCATTGAGGAAGTGCC
LZ01_spades	TTCAAGGATTGGTTGGCATACTAATCTC	AATGCTACCATCAAAATGTGTTTGATGAGA
LZ01_spades	GGTACCCTCCAATTGTCCACTTC	ATGTGTGTGTGACTCTGATAGATTGATGT
LZ01_spades	GGTCCAACGACAATTCTCAACTTTGT	TGTGGAAGTGCTTATCTAGAAAAATGGAGC
LZ01_spades	GCCGGTATTTTCGCAAATATCATAATTCGA	ATAGAGGAAAAAGAAGAGGAAGGGAAAATCA
LZ01_spades	AAACTGCACATTTGATTTGGGTGTTG	AAAAACCTTTTCACATCAAATGAAGTTGGA
LZ01_spades	GGCAAGTTAGGTGAGAATCAATATGAAATGT	CAGGTGTCAAATCTCAGGTGGTTC
LZ01_spades	GGGTTAATGTTTTCCAAAATGAGCAATCA	TATGAGAGTGAGTGGGTGGTGTG
LZ01_spades	TGTCATCATTTGCCATTTTAAATGGCACC	CTTCACCCAACCACCAACCTAAA
LZ01_spades	GAATTTTAATACCTTGTTTCGGTTGAGCATA	GTGACACTGGCAGGTACCTTTTTT
LZ01_spades	CAGTCTTTGGTGAAGGACCAGTTT	AAGCAGTCAGCTAAGAAGGTTGATACC
LZ01_spades	GAGCTCCACAGTGTCGGTTC	TCCGCCACCAAAACCTCTGG
LZ01_spades	TTTCAAGTTCAAGGTCCGTGCTTTT	CTGGTGGTTGATGAAAGACGAGATTATATTT
LZ01_spades	TGTTATGGTTATCATCCAAATTCAACTCGAC	CCTTGGCGAGGATGTTAACCAAAATC
LZ01_spades	AGCCTCAGTAGGAGCTTCATCAA	GGTTAATTGTTACATCCTTTGCATATTGGCC
LZ01_spades	GGTTGGTTGTCAAATGTTTGATTTCCG	GCAGCCTCATTTTCCAAAGCAAAC
LZ01_spades	GATTTTCATATATGGAGGCGGAGTGAAA	GATCGCCTGATTGTTCTTTGTGTTTTTC
LZ01_spades	CACTTTCAGTGATATTTGTGGCTTAAATCAT	GAAAGTTTTGATGTTTCTCCTACGCAAG
LZ01_spades	TCACTTTGAGCGACTCTACTAGTGAAG	GCACTCGATAATCGTCTAAGGTCTT
LZ01_spades	GGGCCTAATAAACCAAAAACTTATGATGTT	AAAATGGATGGTGTGTTGTGTATTGGA
LZ01_spades	ATTGTTGCTTGAGACAGCTAGCTG	GAAAAACCAAGTAACTAAAGGTTACAAGCAA

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	TGCAATGGTTGTCCAGGATCAAG	CCATATTGGAACTGTAAGTCACTGATT
LZ01_spades	ATCCAGTGTACCTGAATTTTGTTCG	CCCAAAGTGATTAAAGGCTGATAATTGTTTC
LZ01_spades	TCAAAATAATGGGAATGTTTTAGGTTGGCT	GGTTTAAAGATTGAAAACGTGAAAACCTCTTCA
LZ01_spades	TAGGTTCAATAGTTATTCCAAGCAAACGTG	AAAAATTCAGGCCATGTTTAATTGCAAAGA
LZ01_spades	ATGGCAAAGTACGATTTTACATCTCTTCTGC	TGGTTGTCACAACCTTTCTAATACTGCTCC
LZ01_spades	CGTAAGCTTCTAACCAAAAGTAGATAACCTC	CACTAAATTGTCAGTTAGACTGAGCATCAC
LZ01_spades	GCCTTGCAACCAAACTTGGAAAT	TTTACAAGCATGAATTTTGGAAATGGGAC
LZ01_spades	ACACTCAAAAAGAAAAATTTGGAGAGCTAG	GATTCGAGCTGCGAAAACCTTCA
LZ01_spades	TGCTTATGCTCTTCTTTGGTGTAAGAA	TGGGTGTTTTAGAACAGATAAGAAGTTTA
LZ01_spades	AGGACTGGGAAGTCTTAGAGTAATGT	ACTGCTTGTTTACGTATATGCCTCTTTG
LZ01_spades	TGTCGGGTTTTAAATACAGAAACCAAAGAA	CAATTGATATCAATCAACCCACCAATCAAGC
LZ01_spades	GCATGTGTAGAGCATCTCCAATTCCA	GGAGAACCGAAAGCCAATGATGT
LZ01_spades	TAGTAATGAGCTGCATGAAGCCAAA	AAAAAGAATCTGCCTTGATAAAGTGCTTG
LZ01_spades	ACCAAGATATCTCCATTGACATATGCATG	GACCAAAAAGAAATCAATGATGATAGCGAC
LZ01_spades	GGAAACTCTGCAGTGTCAAAGATGG	GGAAGGTATGGCTTTAGATAACTCGAATTTT
LZ01_spades	CAAGACTATCAGTTCTAGAAGCTTAAAGCTG	GTTTCGAATTTTCATGGATTCCGCTTT
LZ01_spades	TCTGAAGACGAAAAAGTGGGCTTC	GCTTCCTGGTTTTTAGCGTACACTTG
LZ01_spades	CCCTGCAAGTTACATTAGATGGTGTT	ACCACTGCGAACATAAGCAGATA
LZ01_spades	CAAACACTTTGATTCAATCTCAACCTTA	TGGTCGATGAGAGACTTGAGATGTT
LZ01_spades	GCACAAATAAAGCACTACCATATGCTA	GCTGAATCCTGTCATACACAAATAGGGG
LZ01_spades	TCATTTCACTTTTTGCAAAGATGCCAT	CCAAACACAACATAAATGCAAATACCTAGTA
LZ01_spades	AACACCGTCTCTCAAAAGAAAGAC	CAAGTTAATTCGACAAAGAATGTGGTAGTTG
LZ01_spades	GCCATCTAAGAATGGCCAACCTAT	AGCCTTGTGTTAGAAATTTTGCATGTATCT
LZ01_spades	GTCATGATAGATTTCATGGAAGGAACAATGG	GATGGCTTCAGTGCATGAATTGGC
LZ01_spades	AGAGTTTTTAAGATGCATAAAACCTCAAACT	TCCTTAAAAGAACCTAGGTCACTGAGAC
LZ01_spades	AAAAAGAAAATCTTTATTTGATGGAGATCCATCT	TCATCCATCCATGGGATTGAAAGTGA
LZ01_spades	CCAAAATCCAAGTTTCTTTTTCAACTGTCAT	CCCAAATTTTGTGTTTCTACTGAGATTTTCAT
LZ01_spades	ATTCCAGATCATTTTCGATCTTCCAAGTG	GTTTCATGTTTCCGTCACCTTCATATAGAC
LZ01_spades	GGCACATTTGACTTGACATTAAATCACAA	GCCAAAGCAATGGCTTCAAAGGC
LZ01_spades	AGAAGTCCCAGGTTTGATCTCAA	CAACAAAACCTTTTTTACAAAACCTACACTGT
LZ01_spades	TTTTTGCCCTCTTTGATCTATGTTTCTGG	GAGCAATACGACCTCCTTCAAGTC
LZ01_spades	TGCAGAATACCAACTTGCATGCTAG	TGATTATCAACCACCAACACAGTCTCA
LZ01_spades	GTGATGAAGGATGATGATTATTTAATCGTCAAAG	ATTTACGTTTGGTGTTTAAACATCCTACAAATTC
LZ01_spades	GATTGACATTTCTTTCAAAATATGCCATGTGA	GGATTCCAGGCCATCTCTTTAACATGT

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	TCAGCTGATGAACACAAGAATCCAGC	GCTTTGCAAGATTCAAGCAATCCTAATTTTG
LZ01_spades	AAGGCAGAAAGAAAAGAGTACTTATTAGGTGA	CCCACCTTTATTAGGGCTCCTTCTAT
LZ01_spades	CATCACAATGCTCACTAGGACTAGAACC	TAAGCAGTTAACATGGAAAAAGATGGTGAC
LZ01_spades	CCTGTGCCTCAGGATCTGTTAGA	TGAAGGTCGACAATGAATCATGTGAGA
LZ01_spades	TTTGAACCTTATAGGTTTTTCGGATACCGATC	TAAGGAGAGATCTAGTGATGTGTAAACCCC
LZ01_spades	GAATTCTACCATGTTCCTAGCTCCATAGG	CAGCGGACAGCGATGAGTAG
LZ01_spades	GTGATAGTTTCATCCAAATATGATGGTGGA	CATGCTTATGCCTGCCATTTTCCC
LZ01_spades	GGACACAAGTGCTATTGAATTTGTATTGTA	TATGATTAGTGCATGCTTAGCAAAGTCTAAT
LZ01_spades	GGTTGACAAGCAGCATGAACAAG	ATAAACCTTCCCAGGCATTTTGAAATTCA
LZ01_spades	AGATTACCTGTGAAATTTGGTCATTGAA	TACGTTTATATGTGCAAGCATCTCTTGAAT
LZ01_spades	CCCAAGTAGTTAAAGTAAAATATATGAGGGAGA	ATAGGCTATCTTGAGGCATATCTTGTGTTGG
LZ01_spades	ACATCCAATTTAATTTTGCTGCTTGATCAA	CCCAAGAAGTCCAAGTGCAGTAAC
LZ01_spades	ATGTGATCTAATTTAACATCTTTATCAGAAGCTA	GGAAATGTTTAAATGATTAAATCTTATCACCAGTA
LZ01_spades	GCTTTAATGTTTCAGTTTGATACTTTTTACGTGAT	GGAAGTTGCTGGCTTGTCATT
LZ01_spades	GCTTTCAGGTGTTCTCCTGATG	CCCATAAAGGCTGGTAGGAGTATACAG
LZ01_spades	GATAAAAGAACCCACAACCTCCACAACCT	GCAGATCAGATTCTTTATTGGCTTTTAGAAAATA
LZ01_spades	ATCAGGAATTCAAAAGGTCCAGAACAG	TCACCCAATATCAACAAACCCATATGAAAA
LZ01_spades	TGAAGATCAAGGAAGGATTTTGTATGGAGA	TATCGATGGGTGGCTGTAAATGGA
LZ01_spades	GTGCCTCCGTCAGTTAGTACTCC	GAGATCAAGGAGCACGTGTTCTTC
LZ01_spades	GTTGCCGAAGCTTGAGTCAGATAA	CTTTTTCTTCTCAAGCGAAATAAATCAGTG
LZ01_spades	TATGTTTCGGCCAAAGAGAGACAATA	GGTTTTCACTTCAATCCTTTGTAGTAGGATA
LZ01_spades	GGTTTCACCAGAATGAGTAAGTTCCAT	TTGTGTGCTCCCTTCTTCTCTGT
LZ01_spades	GATAAGAGATGTTTACTGCTTGAAGGTACTA	GTACCACTGCCCTTTCTAAGCAAC
LZ01_spades	TGTCCAACCGTCGTTCAATCAAA	AACAACAAATTTCAAAAACAGAGACAGTGAC
LZ01_spades	AAAAATCCCACATGCTCACAACCTCA	TTTTAACCTCTTCTCTTTTGCTACTGGAAAG
LZ01_spades	TAAGTGCTTCAGCAACGGAACAT	AGTATGGCTGAAATAAATGGACTTCAGAAAA
LZ01_spades	TCCATCAATTTGTATGCTGCTAACCTC	TGTAGTCTATGCTGAGCTCATGAGAAA
LZ01_spades	CAATGAAATTCGGTTTCGATTGATGCA	AACTTGCCATTGGTTTGGTTATCGC
LZ01_spades	ATTAAGTGACAACACTTGTGCAAAAGTTC	GTGACATTTCGCAAAGCATGGAAG
LZ01_spades	TGTTTTGGGTTGGGTTTTAAAGAGCA	GATCTGAATATGCAGAGAAAACAGGTGAA
LZ01_spades	CAGTGACAGAGAAGTACACCACAA	TAGTAAACTAGAAATAGTTCCACCAGGACAAG
LZ01_spades	CACGAAAGATAAAGACTGTGGTGGATT	TCCAATACCATTTCCACTTGAATCTTTGTAA
LZ01_spades	GTTTAGACTTATCAACATTTTCAACCTGCTT	CTGGCCACCATTAACGAGACATT
LZ01_spades	CGTTAGTGGTTGCGATAGAGCAT	GAACAGTATCCAAAAGCATAAAGCAGAGG

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	TTGTGTGTGTGTGGATTGTTTAAGCA	GATTTGTGTCAGAAAAAGTCCTGCATC
LZ01_spades	TTTTTGTCTGTTTGTGTGTTTATCTTTTCGT	CATGTAGGAAAAACACAACATCATGTCACT
LZ01_spades	ATGCAAATCCTTGATGATTTTGTGTGCAT	GGTGGAGATTTTCACAAACGTTTGGT
LZ01_spades	CAAGCTTTCAAGTGACTTAATAGAAATGAAGTC	GAATATGGTGCTCCAAACGCACC
LZ01_spades	CAATCAACGCAGATATCAATGAAACCAA	TCGTTTACTCTCTCTTAGGCCTTCATTATC
LZ01_spades	CCCAGCTGTCAATAAAGTGATCTACAT	CAATAGGTTGAAGATAGGAGTTGAAGCTG
LZ01_spades	CTCTACTTCTTTTCGCGATGGTGTAT	ACGCAAATGTTCAATCTGCTAATGGG
LZ01_spades	CACTATGGGCTGATAACAAAAATCAACCC	ACAAGTTCACAACATTGGAACAAACTCA
LZ01_spades	ACTATGATCTTGTTTACCACATTCAACTC	TCATCACGACCCATATCAAATGCATTC
LZ01_spades	CCAAAATGCCAGAAACAGGATAAGAGA	GGGAAATCCTTTTTTGCTGTTCTTTTTT
LZ01_spades	TTTAAGTGATTCCTTTGCCAGGTATC	GATGATCTTTACTCAAATACCTCAAGAGCAA
LZ01_spades	CCTTTGGCCACAGACCCAATATT	GGCATGTCTCGGTGAAACATT
LZ01_spades	TGGCATTGCATGATAGCACCTTG	CACTATACCAAGGTACCAAATTACCATGTAA
LZ01_spades	GAGCAGTAAAAGGAATTAGGACTCATACAG	GGGCAGCCCTTAATTTTTTCAGCT
LZ01_spades	ACCAGTCAAACTGAATGTTTTCTTGGT	TGAGCCACAACAGACTCAATAATCTGA
LZ01_spades	ATGTTGCTGAATCATTAATTGCAACATCTAA	TAGTTCAACAATCCCTTAACATGACAACAA
LZ01_spades	TTCTCAATTATCAACTACTTCAACCGACAAT	GACTTCTACTTTCTATGTAGATTCCATGCAT
LZ01_spades	CATGTTGAAATTGCCTCACGTTCAA	TGGAGAACTCTTTCTGTTCTCTCCATT
LZ01_spades	CAGGACATTTCCAACCATCATTCACA	GAGAATGTTTGTAGGGTTTCACAATAGGG
LZ01_spades	ACTGTGTTTGAGTTGGAGATTTGTGAT	GGGCACAAGATCACGATGATGATG
LZ01_spades	TATCCAACCTCCACTGTTGCACATA	GTAGGCCGTGAATTTTCGACATTGT
LZ01_spades	ACCTTGACAAATGCCCTGTTATA	TGTTACTTTCCAACATATATGCTTCACGAG
LZ01_spades	CTTCAATTATAAACGAACCACTTGATGGTT	AGAAATAGTATATCGAACTTTTGGCCACTTA
LZ01_spades	TGTTAAGAAGGTTCTCATTTGAAGAATGCTT	AATAGTAGGATTGAATGCACTGACAAACTC
LZ01_spades	CATAAGTACACTGACCTCGATGTCTTCC	TGTTTCGTTGCTTTTGCTTTGGTTAAATATAG
LZ01_spades	TCTTAGTGCATGCTATTCTGTCTGTAGTAG	CACATGATCCGATTATAGAAAATCCCTCATTT
LZ01_spades	GTTGAGGGCTGGATCACTGTTAT	CTACAAAGGAAACCATGTTGGGAAATGT
LZ01_spades	GGCATCAATCTGGGCACTTGATA	GAATAACATGCAGGATTGGCAGAAAAAA
LZ01_spades	AGATAATTGGGCAGGAAAAACAAACCA	TAATGGGCTTCCACCAGTTGTACA
LZ01_spades	TGCTGTGTGTTCAACATCTGTCAA	ATGAAAACCTGGTGTATGCTTCAAGGATAA
LZ01_spades	GCAAACTACAAACTCATTTTCGTGTCAA	ACGTAGACTGTTAGGTACAAGACATGTT
LZ01_spades	TCAGATTTCAGATTCCATACTTTTCCATGGC	CATCAACCCACTTACACTTCTAGTCATCT
LZ01_spades	ATGCCTGTAAAACACCGTAGATGAC	ATTTAAACTCCACTCACACTTTTCAAGCT
LZ01_spades	TGGAATTTTTCAATGGTTCTTAAAGTGACGC	GCGGCAATACCTACACCATTTGAC

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	GAAAAAGCTAGAGAAAACATGTGAGAAGTG	TTTTTCAATCCCGGAGATTGTCTAAACT
LZ01_spades	CATGGCAACTGTGTAATCTTCACGG	GTTGTTTCCATGATTTTCTCGATGCTAAATA
LZ01_spades	TCTAATTCATCATATTCGCGTAATGCATCTT	GCCATGTCTTTGAATTTTGTCTCAACTGG
LZ01_spades	GAGGTGTTCTCTGCAACAGAGTA	TTTTTGACAGCACATTTTCATTTCTTGCA
LZ01_spades	AGATCAGTGCAAGCACTTACTGAAG	GTGACTTTGATTTTCTGTCTTTTGGACTTT
LZ01_spades	GTAGGTTGTTTTGGAGGAGGGTT	AATCTTACATGGTGAATATCTTTAACAGCGTATA
LZ01_spades	ACCCTAATCCTGTGTCTTTTAGTCCTC	CCTAACAAGGACAAAGGGATCCAC
LZ01_spades	CTCAACTCCATAAATTAGAAAAGCTCAAGTGA	TGATTAGTTGACATTAACCAACACCCAAG
LZ01_spades	AGTGGATTTGATCTGCTGATCTGATCT	TCCTCATATATGATTCATGCATGTCTGTTGA
LZ01_spades	CTACCCTAAAGACCATGTACCTAAACATTC	GTGGGTATGATTAATGTGCAAAATCATCATA
LZ01_spades	ACAGAACGCATGACAGACAAGATATC	CACACCATCAAATAAAGCAAATGACACC
LZ01_spades	TCCAAAATATGACAGATAAGACATCAGCTA	GCAGGTATGGATTCGAGAATTAATGGATTAA
LZ01_spades	AAGTTACAAAACCTTATGACTTACTCGTGTA	CTTTTCTTTCAATTTGGCATGAAAAACACTA
LZ01_spades	CATAAAAGAATTGGGACACAAACATTATGAGTT	GGGACATGTGTGAACATTAAAAACCTT
LZ01_spades	AAACAAGGAGAACCGAAAAATTCATCAAATC	GACATAGAGCTGCCACCTTTACTTG
LZ01_spades	AATGGTTTCTTAAAATGTTCTTGGATTCAATAAT	GGGAATACGTGCAAGTAACATTCCAC
LZ01_spades	GCATTGTGAAATTTGGTTTTTGATTGATCCT	CCAGTAAGTCCAAATGGAGTACAACATATTC
LZ01_spades	TACTCAGGTTTCTGAAAATGATAAAGCAGC	AATACAAACCTCCAGATCCTAATAAAGCTGT
LZ01_spades	TCAAACGGTTAAAAAGGTGTATGTCAATTGTATAT	ACTCCTATAATGAGAAATAATTACTCTTGCAATG
LZ01_spades	TGGCAATTTGTTGTCTTTAGTTGTGGG	TTTCGTAAATACATGTTATTAATTCCATAAGGTT
LZ01_spades	AACTGCTTGATCACCAGCATCAC	GTATTCATCAGCAGGAATCAAATTTTGTGTT
LZ01_spades	GATACTAGTCCAAGCTGCCCTTTT	TGATTGGTTTCAACCTCAAGTTTGTCTTTTC
LZ01_spades	TGATGCCAAAGCCATGTGAGTTG	ACTTGGAGGCTTACAAGTCACAACT
LZ01_spades	GCATGTACTGCAGGCTTGAAGTC	CCAGAGAACAAAATAGATGAACCAGAAAGAC
LZ01_spades	AGAAGTTGTTACGACTATGCTTGCAA	CTGAGCCAGTATCATTTATTTTCTCTCAGC
LZ01_spades	ACTTACAAGCACTTATGATTCCAAATTCATT	GGTACAGCCTAGGGCTAAAGGTG
LZ01_spades	TGCTTTCTGTAGATGAAGAAAACATATATTGGAT	CAAGCACAATAACAAAGGCCTTACAGA
LZ01_spades	AAATCAATAAGTGCAACACCGCATTG	TCTGCGCAAACAGACCCTTTT
LZ01_spades	CTCACAGCTGAAGTAATGGAATCCTT	TAATGTCGGTGTCTTTCTACCAACCATCT
LZ01_spades	AAAAATCTCAACTATCCAAGAGTTCCCATATA	GGAAC TAGTCTCTCACTGGTTGATGATG
LZ01_spades	TGTCCCATGGAAATGAACAGTCTCA	TTTCATTTCTTACTCAACCAACAAAAGCA
LZ01_spades	GTTGCAAGCGCTTCTTGAGGT	ACAAAAATGTGGTAATAAAAGTTGAAGTTGGAT
LZ01_spades	ATTCTTTACACGACCACCAAGTGTT	GGACAAAGCTTCGTTGCTAGCTG
LZ01_spades	AAGGAATATTCCTTGGAAACTTGATGGTC	GTAAC TAGATGAAGATTAGGGTTGCCATG

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	TGAGGCAACTTGTGTTCGTTAAGTG	CCATATATGGCAACAGCTTCACAAAAAA
LZ01_spades	CGCGCACGAGCTCTATTGTATTC	CCTGATGGTTCTGCTTCCAGAATCA
LZ01_spades	TTGAACAGGAAGAACATCTGGCAAATATAT	TTCGTGGGAATTTGTTTCGGTTTGT
LZ01_spades	TTATCAAGATGCATCAGGTATTTGGTTAAA	TAAAACAGGTTGATTTAATGGTACTGTATCCAAA
LZ01_spades	AAATCATGTGATCTCACATGAAGACGTA	CTCCTCCATCTCTAACTTAATTGATTGAGCA
LZ01_spades	TGGCCACATTGGTTTAGCTGTTA	ATGGTCAGATTGAAGTCCATATAAAACCAAT
LZ01_spades	TTATTTCAATTGTGGCGTAATGGTTAGCC	TTTTTATTCCTGACACTTTATGAGGGTTTGA
LZ01_spades	TTACTGTGTAATATCCCACATTTCAATTTGCTA	ATTATTTGACCAAAGTGTAACATCCAGAAATATT
LZ01_spades	CTAGAATTGAAAGTTGATGGGCTTCTATAGTA	ACAGTTACTTTGTCAATAGAAACATTGAATTAGA
LZ01_spades	GCAGGGAACAATGAAGCTTGTGT	ATACCAGGTTGCGCTGTTTTTTGG
LZ01_spades	AGGGAGCAAAAGATCGTTGAAGTC	TGTAACATTACAAACACACAAGTAGTGACAG
LZ01_spades	TTTGAGGCTGATCGTTACGTTGTTAT	AGCCCAAGAATTATGAAAGAGAGAGAAAGA
LZ01_spades	TGATAGCTCTATTGTCCAATAAATGCTCACA	ATTGAGCAATAGAATTGAAAAGCTAGCTAT
LZ01_spades	CATGGCATGCCAAATTTACAAATGTTTA	TCTTCTTTTTTGCTTGAGCTTCTTTGAATGA
LZ01_spades	TAGGAGCCATGGACCTCTCTAAAAC	AGCTATTTGTAGTAGTAGCTATAGCACATGA
LZ01_spades	GGAAAGCAACTAAAGAGAGACATGGAG	AGCAAAACATCATGCAAATCTTCATTTTCAG
LZ01_spades	AAGATTGAACAATGGTTTTCTTTATTTTTCTT	GCAGTTCCTGCTGATAAATAAACGGTT
LZ01_spades	GCCAAGTCTGCTTAGTTTTAATAAAGTTGGA	TTGTTATTTTGACGTTACGTAAACATTGCTC
LZ01_spades	GATCATTTTTTACACATTCAGTATCATGCAT	CTTTTCTCGAAAAGTGATTGCGACTTACT
LZ01_spades	GTAAAAGATTAGGCCGTCAGACTCAG	TCTTGTCTATGTTGTCAATGTTTTGGAGTG
LZ01_spades	CAAGGTAGTAATAGCACTTTTAGGAGCTT	ATTCCAGACAAC TAGACAAGACAATAGAACA
LZ01_spades	TGTTCTTCACTAGTGTTTAATTGTTTGCCA	TGATGTTTAATGTTTTCCATTCTGAAGGGAA
LZ01_spades	GGAGAGAGTGAAAGAATTTGTGACAAAAG	TCTTCTAAAGGAGCTTTTGGGTTTCTAAAGC
LZ01_spades	TGGGAACATGAAC TTATCTTTTTCTAGTA	AGTTTGACATTTAGAGAAAGAACTGTGGTA
LZ01_spades	TAAGAAAGGCAAAAGGAACTCAGTGTG	TTTTGCTTGATTCAATTAGGCGGTTTC
LZ01_spades	GCATATATACTGGCAGACATTGTGTTTA	GGTAGGATTTGAGCTTTGGAGTTAGTCT
LZ01_spades	TCTTCTGT TAGTGGCAATGCATACTG	AGTTCTTGCTCTTCTGATTACAATTTCTCTT
LZ01_spades	GGTTTCATTGAAGAGCACAGCAAC	CCACATTCTGGTGGATCAACAAGTAC
LZ01_spades	TGTTAATTAGGTGGCAACTAAGACTAATCCA	GATTTTAGAAGTGTTTATGCAAAAATTGCTT
LZ01_spades	ACAAATAAGTTAGGCTCCAATGTCGTG	TATCGGGAAATTCCAAAGAGAAAACACAATA
LZ01_spades	GGGTATGTATCGGATGCATGTGTG	CAAAAGTTGGCTCTGACTTATATTAGGTGAA
LZ01_spades	TGGTTCAAGCTGTGGTCATCACA	GAAATCGAAAGAGATGGTACACCAGAAA
LZ01_spades	CATTGTCCAAGGTCAAGTACAGAGTC	AGCAACTTAATCTTTGGAAGGCACATATC
LZ01_spades	CAAAAGGAAACATAGGATTTGGAAGTGTA	CTAAAGTTGTCTCTTCCAATACTTCCTTGAG

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	GTCTGGTTCACAGCCTCATATT	TGCATTGTTCACCTGCACAAAAATG
LZ01_spades	GGCAGTGTAACGAATGACTGGTT	GCCTTTTCCCACCCAAATTTTCAG
LZ01_spades	GGCTTTTATCACAGCTCTTAAGAAGCT	TGCCAAGAGCCCATATATAAGATATAGGAAA
LZ01_spades	CTAGACAAGTTCGGTGAGAATTCAAATTCT	TGAATGAAAATTAGGACAAACCTCTTCAGTA
LZ01_spades	CATGGAGTTTAGAAGTCTGCCTCTTT	TACCTGTTTTTAACTGAAAACTTTGTTGCAG
LZ01_spades	TTGGCAGTCAAAAACCGCCATT	GGTGATGTGGCTGCCTCAAATG
LZ01_spades	GCCTGTTTGCATATCCCAGTCAT	TATCAGGAATCAAAGCTTAAAGCTGCTAGG
LZ01_spades	AAAAATTGGCAGCTAGCTAGTTTAATGG	ATCCATACGTCATAATTACATCAAACCTTAAAGAC
LZ01_spades	TTTTAAGCATAAGACTATCTGTTTTGACTCGAT	TTTTACATCAATTATGATGCACAACTTTTGT
LZ01_spades	GTCTAGGTCTTCAATTGACTAATTCTCTGCT	TACATATCAAATGTTTGTGTCAGGGAACCTTGTC
LZ01_spades	GCACTGGAATGGAATGATGACTTTG	GAAGTTGGGTGAAAAGAATAGTTCAAAGGC
LZ01_spades	GATAGACTGGTTGGCGTTACGAC	ACCCAACATCATCATCGCAACAA
LZ01_spades	CTTTCAAGTGAGCTTCCCTCTCTTC	AATAAGTCGATCAAGGACTCGAAGAAAAAG
LZ01_spades	GTCAAAAGTTTTTGATCATCCGATGTGAA	TCTTGTTTTGTGTAGACAACAAATTTCAAATCAA
LZ01_spades	GACAAATGCCCTTAAACCACATGAAA	CAGTATACTACTCTTCCACCTGCAATGA
LZ01_spades	CATAACATGCATATGAACAGTAGCTAGTCTT	CTCCACTCACTTTTTGAATCAAAGTGGG
LZ01_spades	GCACTTCTTTTCAAACTAAAGAATACTGGG	AGTACCTTTGCCTTATTCAGCAGTTCC
LZ01_spades	CTTCAGTAATGTGTTAATTGACCTAGTGGAC	TGTCAATTGTTGCTTGAAATCAGACAATAGA
LZ01_spades	CTAACATCACATTGTGTGCTTGAATTTCTT	AAGGGTTGAAATGTTGTGAGATAAATTAGTAGTA
LZ01_spades	TACTTTGGAAGCTACAATTAAGACGCTT	CTCATGCTAGCAGGTAGGCTTTG
LZ01_spades	TTTCATGTTTTGAACGCTTGATATCTCTTGG	AGGATAAACAATAGCTGTTTCAGCTGTTT
LZ01_spades	GGACTCACCAGAGGTCACCATAC	CAATGTCACACATGGATGGGAAGAG
LZ01_spades	TTGCAAGCAACAAATGATGGCAT	CAATTCTACCTTTGGAATTGTTCAAAGCAA
LZ01_spades	AAGTGCGATTTTAAGAATGTGTCCTTTATA	ACAATGTGTTCAATAGACTAATGCTCCATA
LZ01_spades	TGAAGCTCCTGACTTTCCCTTGG	CATTTCTCATGCTCATAAAGTCTTTATCGGA
LZ01_spades	TTAAGGAGTACCAACCACCGAGAAT	GTGACTCGCACAATGCCATTATCC
LZ01_spades	CACGGTTATCGAGAATGTATACAAGTACTA	GCAAGTGCTACCTAAAAGTAGAACTATGTTT
LZ01_spades	ATGTCTGTTTCAATTCTTTCAGGTCTCTT	GCAAATATGGCATTGAACAAAGGGAAGA
LZ01_spades	GAGCTATTTGACCTCCAGTTAATAGGTTTA	AATGTTAACAAGCTATCCTTGCTTTCTACTA
LZ01_spades	AGGAGGTATTTTGAAAATATAATTCTTACACGTC	GGGTCCTAAATTGATGTGAAATCTTAGAACAG
LZ01_spades	GTTTAGCAACCTAGGAAGGGACATG	AGAAGTGAACCTCTACTTTTGAATCTGCATTG
LZ01_spades	ACATTTTAAAACTCTGGAATTATGTTTTGTAGGTT	AGCTAATTTTAAGCTCTAACTGCATAAGAATA
LZ01_spades	CGATCAGAGAGAGGAGTTAAGTGCA	GTCAAAAACCTTTGCTCTGCTTGATTTC
LZ01_spades	CTCATAAACCTAAGTTGAGTTGTTGAACGA	CCCTAAGCCCTCTTTTCGAAACAAAA

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	TTCTATGCACTTCAATACAAAACCTTGTGACG	CTCATTCATCTACCAAGTGTGTATACATCCA
LZ01_spades	ACCTAGAATAACATCTTTCATCTGGATTGAT	ACATTTGGTAGGCAATGTGTGTCAA
LZ01_spades	AAGTCTCAATCAAGGGCGTTCTTT	GTTGTGCTTCCAATCTGAATTATTTGGAAC
LZ01_spades	GTTTGCTGGTCTACACTGACAACA	AACAACACAAACCCACAATAACAATTGTC
LZ01_spades	CACAGGTTAGATTTGTATCATCTTTACATGTTTT	CTCTTCTCATCATACCCCTCAAAATTTCTGAAA
LZ01_spades	TGCAAAGAGATGCAATTCACCAAGC	AAAATAATAGAGTGGTGAGAATTCCACCCC
LZ01_spades	GAAATGGGAAAGGAGTTGAGGAATACTT	TCTCCTAATCGGACTCACATTCATATATGAT
LZ01_spades	CTTCTTTCTATATTTTATAGGCGTTCCATAGAGAA	CTGCAACTACATCTCCTGGAAACATC
LZ01_spades	TCACTAATTTTGCATGTTATGATGCCATGT	ACAAATCCAAATCCATGCAGTTTTTGTATTAT
LZ01_spades	CTTGGTCCTTTCTTTCTTTTTCACGC	ACATCAGTATGCATCATGCCTGTG
LZ01_spades	GAGTCAAGTGGATCCAATCACTGAC	ATGCATGTGGAAGTCTTTACATTTGTCC
LZ01_spades	TATATGTGCATTGCAAGTTGACAGTTGC	TGATCTTAGGTCTCATGACAAGCCATAA
LZ01_spades	AGTAATGGAAAAATTGATTTCTCCTCTCCAAT	TGATTAGGATAAGTCCCTTACCCACAAATA
LZ01_spades	CAGGGTTCGAAAATAACCGGACATAA	GAGAAGAAAATGGATATGACACTAGGTGTG
LZ01_spades	ATGCTCTGATCATGTGAAATAAGTTATGACAA	AAAGATACTACTTATCATGCAAGCAGTTGAA
LZ01_spades	GTCGGTTGTGTTGCAATCAGAAT	GAATGCTTTAAATCCAAGAGGTTGCTTC
LZ01_spades	CCTAGTCTGTAAGTTACATGTAACATGTGCG	TGCTGAGCAGATTAGGGTCGTATATG
LZ01_spades	AACTTGTAGCACTTTGATTCACTTGCC	TGAGATTTACCAACACAACCTAGAATCGAAAC
LZ01_spades	GTTTCCCGTCATGCAACTAGCT	GATTTGATGCTTTTATTTGACAAATCTATCCTTA
LZ01_spades	TGAAATTACCTTGTTTTATGGCAGTGAC	GTCTATTATTTAGACTTCGTTGTCCTGCTTT
LZ01_spades	GAATAGGCCATGGGCCACTATTG	TTCTGGTGATAAGACCAACTTGCATG
LZ01_spades	AGAAAAAGGGACATTGTATGGGCAAG	GGGCCTGCTTCTTTTTCACCTATCT
LZ01_spades	CAAAAATGGTTTAACCAACATCCCACAT	GTGAAGAAGCTGCAACAGGAGCAATT
LZ01_spades	CAAATCTAATCAAACCTAATGGGTGGGTA	GAGCAAGTCCCTTTACTTGCTAAATTCC
LZ01_spades	TTTTTATTCATGACTCTCTCAAGCTCAAT	TCCTATCTGAACAATAATTTACTCCCATGCT
LZ01_spades	ACATATAAACGATGGCTTTTACATACTCTACAA	TGTTTCCCTCATGTGGATTCTATGCT
LZ01_spades	GAAGAGAATTGCAAGTCATATTCATGATGGG	CCCATCTCTTCTATCCTCTCTAACCA
LZ01_spades	CTTGTTGTGGACATGTCATATGATTTGATTGG	AAAATTCACAATTTTATTTGATGCTGATAGAAGGA
LZ01_spades	GTTGTTGTATCTTGAATGACAACAAATGCC	GTTGTAACATTGGGTTTCAAGTTTTTATTTGCA
LZ01_spades	CCCTTGATATAAATCCTAGAGTTCCAAATAATCAT	TCCACCTCAAAAACAGGTCTGTATTTCT
LZ01_spades	CTCCGCATAAGTTTGACTAATCAGATGT	TCAATCGAGCAATTTGTTTTAACTTCCGC
LZ01_spades	GGCTTTGGAAAGAAGTAAATATTTGGTTGTT	TGGTCTTTGTTGCATCGTAGTTTAGTTAAA
LZ01_spades	CTCCATTGAATGCTGAAGAGAGAAAAACA	TGACCATGCCATCTATCTCCAC
LZ01_spades	TTTTGTGGAGACAAAACCAAGTTTCCA	GCCAGTAATGGCGTCTCTCTTCC

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	ACTCCTACCACCAGGATAAAGACCA	GCCTGTGTTAGAGATAAAAGGTGAAGATGA
LZ01_spades	CTGACATTTCTTCTCATAACATCAAATCAAGTC	GGAATGGTTTTCTGGATCATCTTTGGAAA
LZ01_spades	ACAATTCAACCCAAATGTCATCTCTAACAA	TATCATCGAACCAAATCGATGGTCTAATTCG
LZ01_spades	GGTATGGCCATCTGAGGACAACA	GTCTGGGTTTTCTGCTTTCCCTCATTATG
LZ01_spades	CAATCTACAAAGCTTATCAAAGTCAAAGCAA	TGAGTTTGTAAGGAATCAGAAGTGGTTTTG
LZ01_spades	ACAGAAGGTGATCGGGTGAAGTAC	GTCTTGACCAACTCAACAAACCC
LZ01_spades	GATTCACAACCAGTTCATACCTTTTCCT	GTCTTGTTTAGCTTCTGTTACTGATGAAGAG
LZ01_spades	GCAATAGGTTGTCTTTGTTTGAC	CTTCTGATTCTCCATGTTTGATTTTCCT
LZ01_spades	CCATCCCGACGGTTGAGATTC	CCTTCAAAGTGAGATTCTCAACTACCAAC
LZ01_spades	GTCAAGAGTTTGATAGAATCACCAACCTT	ATTGAGCGTGCAACCCAAAAATT
LZ01_spades	TGTGAAGCAACAAAAACCGTTAACTAACG	GGCTGTGATTTGTCTTCATCACCAC
LZ01_spades	GTTATACCAGAGTAAACAAGCAGATGGAG	ACATTGTGGCACAACCTTAATTCGG
LZ01_spades	TGGAGGATTGGTGATGGAAATAGCA	CGAAAAATTACGTCTCTTGTCAGCTG
LZ01_spades	AGCAAATGAACCATGATTTTTCAGCTTT	CTGCATCATATTTGCCAGTTTAGTGATAGT
LZ01_spades	TGGATGAATCTTGCTTCTAGCTTTGTCT	AGAGAAAAGAGAGACTCTCGGCTAAAC
LZ01_spades	ATCATCTGAAACTCCAACGGTAGTTCA	CGCCCAAGATTTTAAATTACTCAAACCTGCA
LZ01_spades	TTGTAGAAGATCAACATACTCATTATGTGAGCC	GGGTGGCTCATCCACATCCA
LZ01_spades	GACATAGAAAATCTGGTGGGTGAGTG	AAATTATTACGTTAAAGACAGAAGTCAATTCTCT
LZ01_spades	ATTTCTCCAAAATATGTCAATGGGATAATCTC	AAAAAGGTGTCAAATCAAAGAGAAAATGAA
LZ01_spades	CCGCCTAGCTTTATAACAAAGCAAA	TCTTCAACAGTTGTCAAACATTCCAAACA
LZ01_spades	TGTCTGGTCAACAGCATCTACTTAATTGT	AAATTGGGATAAATGGGATCAGAAACCTG
LZ01_spades	ACCACCTCTTCTGCGTCATTTTG	TGCTTTTAAGAAATCTGAGGTTCTATCTCCT
LZ01_spades	CGCTTGTCAAAATAAATTGATTGAGAGGTC	CGACATTTCTGTAGTCAAGATTTTCAGGATTC
LZ01_spades	AAAAATTTCATGGACCTGGCTACATTATCA	CGCTGTCTACTCCCTTGTTGTTGA
LZ01_spades	CTTTGAGTCTTCTTTGGTTGTCATTCCA	CCATTGCTGTTGCTCTGTTTTTCAGA
LZ01_spades	CCCACCTTGCGCAAATAAAAAA	TATAGTTGTTGAAGTACCAGAAGCATTACCA
LZ01_spades	GCCTGCAGGATGGGATGAT	CTCCAATCACGTCCTTTGTCAAGA
LZ01_spades	TATAAATCAAGAAGGTGACCCATAAACCATCA	ATTTATTTGTTGTATAACTAATGGCTCACAAATT
LZ01_spades	CCCAGCAGGCTTGATGAGAACG	ACATCCAATAACTGCACCATAGCATATTG
LZ01_spades	GGGAATTGTCTGTTTTTAGAAAAATGGAGTT	AGCTTGCTTGTTCATTACATTCAAGCC
LZ01_spades	CGATCCATATATAGGTAAAGGAATGTGAGGA	AAAAAGAAATGAATAAAACCTTCTAGGGCTCTAG
LZ01_spades	CAACTTATTAGTCAGAAAGGGACCTGTTA	TCCTTAATTTCCAATGGAGCATGGTTG
LZ01_spades	TCTCTTCCTCCTCTGAAACCACAT	CGCACCCGATCTTTACCTCAAGT
LZ01_spades	AACGGTGCATAAAATAAATCCAACCAAAT	AAAACATCTAGAAGCAGTGAATTGCATGC

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	TCAATCTCAGAAGAAAAGTGCCTAA	CTGATGGAGAGTGAGATGAATTCAACTG
LZ01_spades	CTTTAAGTACAAGGCACAATTGATCACTCT	TAGAGTATAAGTGATGGAATTTCTGACAGGATA
LZ01_spades	TTTTTCATCGAATCGTTTCATTCTGTTGG	ACAACTTTAATAGGAATCCAAGTAACATTACAC
LZ01_spades	AAGTCATTTACGTCCGCTAGAAGAAGA	GTGTAAGATTGAACATACTTAGGGTTGCTT
LZ01_spades	TGGTGATTTTTATCTATTTGGTTCAGGTGAT	TAGACTCAGAAGAGGAGTTCAATAGAGTGA
LZ01_spades	AGACTCAGATGTGAAACATGGCTACA	CCCTAGTGTTACATTCCTTTCTTTTCTTTGA
LZ01_spades	GCCGGTTTTAACAAGAAAATGTGTGA	CATCGTGTGACACTATCACTAACCC
LZ01_spades	CAGCAAGGATTAGATTGAACCAGATTAACT	ATTTTGTTTTCTCGTTTGTTACAGAACTTG
LZ01_spades	CACAAGGATTTTTATGGGTAATGTATGGATATGA	AAAAATGAAGCAGATGATATGCTCCATCT
LZ01_spades	TCTTTCACATCTATGTTAGGGACTCGAAT	AATTCTAGATTTGAAGGAGGGAGAGCTAA
LZ01_spades	GCACATCAAGCTCCCAGTAGCT	ACTCCTAAGAAAAATATGTAAACATATGCCACAT
LZ01_spades	GAATCATTGCAACAAATGTTTAGGCAACT	GTGCCAACATGTATGGTGAACCTGT
LZ01_spades	CTGCCAAGTACTGCTAGGAATGTT	GTTACCGAGCTAGTTAATATATGCCTTGTC
LZ01_spades	GAATGACATCAATACAATCTGTAAGACACTGAC	GGTATTTTCAGGTGTTACAACCTGCCTG
LZ01_spades	GAAACTAAATATAAAGTTACGCCCACCAAAA	GATACTAGAAAACTTTTGTTGCACATCACAT
LZ01_spades	TGTGTGATGTATCATGTATGGTAATGAGTGG	AGGATGTCGTAAATAAATGCGTATTTTTTCAT
LZ01_spades	ATATAATTTCTCAGCACCCGTAATTATGCAC	TTTTGTCATGACCAGAAATTTTATGGCTTG
LZ01_spades	CTTGGAAGAAAAACAGTTAAGAATTGCTA	ATCGTAAATTTTGTTGCAACCCATG
LZ01_spades	AGCTTAATAAACCTGAAAGTAGAGAGGCTAC	TGCTTGCAATCACAAAGGTTAAGCT
LZ01_spades	CAAATAGAGGCATCCATTAGACCAAATTGA	GGAAATCCTTATTATTTGCAGATTCAATGAGCT
LZ01_spades	GTTATAAATATATATGGAGAAAGCTGCAGGAGGG	GGCTTTCAGTTGATTAAATCAATTAAATAGTCTGA
LZ01_spades	GAGCCACAGGAAGTGAAGCTATT	TTTGAAGAGTAACGAAGTAGACTCCAACA
LZ01_spades	GTTTAATTCAAAAACACGCCACAAGAACT	TGTAGTTGTAGCCAAGGTGCTTG
LZ01_spades	GACTCCCTTGATTTCCTTCCACAG	GCATAGTAGAAATTTCTTCAATTCTGACCAA
LZ01_spades	GAGAGTGAAAATGGGAGAGTTGGAG	CCCATATGCAATAAACAACCAAAAACATGAA
LZ01_spades	ATGTGTTTGCATACATCTCGTTTGTATATGC	CAACAACTCCTTTGTCTAACTACCTAACCC
LZ01_spades	TCTGGAGTCATCTGATTACCTGTGTA	GCTACACCCAGAAAAATTTAAACATAGAAGAAG
LZ01_spades	AAAAGAAATTTTCATGGAAAAATTAGGTCCACAA	AAGAGAGATGGTGATGGTTTATGATAAAAAGTCA
LZ01_spades	TACAATTGAAGCTAGCAAAAATTGGAACAGG	TGAAAGAGGTTTTTGCCAGAATAAAACACT
LZ01_spades	CGACCATGGCCTACATTTGTAGA	GTGTGAACAATTGACCGCAAGTACG
LZ01_spades	GTGCTCTCGACCATCACATGATC	CGGTTGCTTGGTGTGATAAAACATCA
LZ01_spades	AGCAATGTCACAGCAACCATATAACTC	GGTTGACAAAATTGATTTCAAGAAGGCAG
LZ01_spades	ATGAACACACGTAATCATATATATTCCTTCTTA	AAATTCTCGAGCTGATGTGATTAAAATTCTATTA
LZ01_spades	TCACATTTGAGAATTTTGCAAAAACACCTT	CGTCATTAGATTTCTCGTGTAATCAAGAATT

表 A.15 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
LZ01_spades	CTACTGTTTTCAAAAACCTTTTGTGAGGAT	AATAATGACCAAGTCTTGTCAACATGTTTTTC
LZ01_spades	GTAAAAATCAACATCGGAACACACAAATACA	CTTCTTCACACCCAACAAATCCAAAGG
LZ01_spades	GATCGATTACGACCATGGTCAC	AAAAACATGTTGAATGTTGGATTTGTTGAGA
LZ01_spades	AGCATATTCAAAGTGGCATTTTCTAGAAGAG	CAAATCACACATCTTCCAACACCAATACT
LZ01_spades	TCATGGAATGGAGTCACATGCAAG	TTCTGAGACAAATCCAGAGTTTGAAGATACT
LZ01_spades	TAGAAAATGTCCTTCAACATTTTCAGATTGCA	GTTTAATAACCAAAATCATGTGTCAATTGACAT
LZ01_spades	TCTATCTCATCAAATAAGTTGTGAGACTGTCTC	ATTTGAGTTTTTGACCCCTTGATACTTAAAAACAATA
LZ01_spades	TAAATCCAGCAACCAGCCACATAAA	CTCGAAAAACAAGGGAATGATAAGTACGT
LZ01_spades	CATATTGGGTAAACCAATAGATTAAGACCGAT	AAAAAGAGCATCGGCCCTTAATCAATCC
LZ01_spades	TATCAGAGCCGACTCACACATC	CCGAAAGCTATGAAAGAGAGAACGAAAG
LZ01_spades	TCATCACGATTTCTTACTGTGTTGATA	GTCTCATCGAAAAGGTTTAACAATTTTCGAC
LZ01_spades	AAACTTGTACAATATGTGTTGAACTTAAACCA	AGATTCATAATCTAGTTCACATCCAAAATCGTTA
LZ01_spades	TTAACAAAAGAGTATTCTTGGTATTAAGTGAGTT	TGTTTTTGGTGTGGCTTCAAGTTTTTC
LZ01_spades	TTTTTGTACGCCACATCTGATGTTG	GGATCTTCAGGAGCTTCTTAACTGTTTCT
LZ01_spades	TTAACAAAACTAAGGAAGTCAACTGAGGTC	AAGAAGCCAAAACTAGCATATGATTGAACT
LZ01_spades	AACCTTGCCAAGAGATATTTTTGGTA	GATTGTGCAGTGAAATGGCGATTATTTATAA
LZ01_spades	AGTGATGGCACTTCAACATCTTCAT	TAAGATAGTCGCAAGTTTCTCCAATTTCTCC
LZ01_spades	GCACATGTTCTTCATATCATCAATACCATT	GCATCTTTTCAGATGTTGCATTAACAATGTG
LZ01_spades	TTTTGTCTTCTCTACAACAAAAAGAAATGTTA	AAAATTGTAGTGCATTAACTGTTTTGATGTATT
LZ01_spades	AGGACAGAACAGTGAGGTGGTAT	TGTCTCTCACACAGCTTTATTGCAC
LZ01_spades	CTGCGTCTTCCATGCTCTCAC	GATTCCATTCATTTTAATCTAAATCTGCCCTA
LZ01_spades	CCTATTGGAGAGTATTGTTGAACTCCAT	GGGAGACATTCTCGGCAAACTAGA

A.16 猕猴桃 MNP 标记引物

猕猴桃 MNP 标记引物见表 A.16。

表 A.16 猕猴桃 MNP 标记引物

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009654	GAATCAAACATCATAGAAAAGGGTGATCGTAT	TCGAACTTTTTACTTGCTGAAGATTTTACAC
CM009654	TATGTTGAAAAAGGACATGACACGTGAA	GAACTCCGAACAACAAATAGAAAAGGGA
CM009654	CCCTCATACTGATGATAATAGACCATCGAA	CGGGACGTAAAGCTCAGGTAT
CM009654	TACACTTTCACTTTAGCAATAGGGCTTTT	GTAATCTAGGTACGAGTCCTGAACAC
CM009654	CAATGGCCCTATTGGATTCTATCAAAATTA	GGAAAAGATCTTAACCAGAGAGTGGTAC

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009654	CGAGGACCAATCCCTCCTTTACT	AGCCAATTGGCGATTACGACAAT
CM009654	GCAATATGACATCTGCCTTAATTTCAAGAC	CGCGTTTATAAACCAATTACTTAAAGTTTCTTCTA
CM009654	AACAAGACAATTTTCATTGCCCATTTTACAT	ATTACGTTTCAAGTGACTATCACAGTTTGTA
CM009654	TCGAATTGAATCGTCACCAGATTCTCT	AGATACATGAGAACTTCGTAGCGTTTTTTT
CM009654	ACATATATCACAATTTGGAAAGCTGGAAGTA	GTCACCGAGGGTGATTTTTGTGTTTTG
CM009654	GGAGGTAGCATTAACAAGGGCATG	ACGAGCGTTTGGAAAGTATAAATTATACGATG
CM009654	CCAAATCACCACATGTCTTCCACAC	TTAGTGAGGAGATGGTGTAGTTTTATCGA
CM009654	TCATTGAACCATCCAATATAAGCCACAA	TTTAATCCGATGGTTCGATCTCTAAACC
CM009654	GGACTCTGGGTTCTTGTCAAGGG	CCTCAACACTTCACTAAGTTGGTCTTTTT
CM009654	TCAAAGTTATTTCTGCAACATAGCCAACT	AAATGGTGAAGATTGAACTTATCGAGTTAT
CM009655	CGTTGTGTTTCGAGCCATTTGAAG	TTTATTTTTGGGTGAACAAAGCTACACTTAA
CM009655	GGTGACTGCCAAAAGCTTCAGAG	TGGACAACGGTAAAGAAAAAGACTTCC
CM009655	GGTACACGTATGGCATGTATCACAC	ATGACTAATCACCAAACACAACCTTTCTCG
CM009655	TTACTGAGAGGAGAGAGCAGCTTC	TGAGTAGTACGGTCCAACTGTAC
CM009655	TATCTTATAATGTGCAACTGTTTCTCGTGAG	CCAGAAAACCATTGACTTGAGGACAAAC
CM009655	TTGGTCCAAAACAGACTTAATGAATTGCA	TTAAACATACATCGTAAGGAACCTAATGGTT
CM009655	CTGCCAAAAATATTCAGAAGCGCTAG	GCTACGTGAGGTATGGTAAAGTCG
CM009655	TTTGGTTTACAGTAATTGGATTAATGGATGTTGT	CAATTTCCGTAATGTGTGATCCGAAAGT
CM009655	GGTAAAGCAAGGCACTCAGCTAA	GGTCGTCAACGACCTAATCGAAA
CM009655	GTAAGATAAACGAATATGCATCTGGTCTCAT	GTTTCTGAGTAAAGGAACCCGTCTATT
CM009655	AAATATTCATGCAAATTGCAGTACTCTATTCA	GTGTGTATAGTCCTGTTACTAGTTTATCTTTGT
CM009655	TCCATTAAGATCTTGCAGGTGAATTGAAG	CAATGTGAAACTAACGGATCTTTAACTTTTCATTT
CM009656	CGAAGCCTCCTTGAACAAGAAA	CGAAAACTGCCAAATATCAAAGGGTTCC
CM009656	CTTTGTCTCTTGGTATTAAAATGCTCTGCTA	ATACTTGTATTTCAACTCTCAAAGACGGTTG
CM009656	CATGTTTGGCAGAATAACCTCAATGTTT	CGGTAGTTTCGTGTACGTCAAAAAC
CM009656	GGGATAGAATTTATGTTACATGGGCTCTTC	AGTAGATTAAAGAACTAAATCTCCCGTGTTTC
CM009656	TTGTCCGTATGGGCTCATAAGCT	GGTTGGGTAGGGTGTAAGGTTTG
CM009656	AAATGCTTGAGAGTAAATGAACTTAGGTCAA	AGGTGTTAATACCTGAAATCACACTTAACC
CM009656	GGTATTTCTGGGAATAAAGGATTCATCTCTC	TTACCGTGAGAAAAGAAGTTCATATAAACGT
CM009656	TATGCTCATCACTAGATATGGCCAGAAA	CACTCGCCAAAAGCTTCTTAGA
CM009656	CTGACCAAGTTTCTTCACTAGCTAGAGT	CTTTTCTTCATGACTTCTGTGGGTAAACC
CM009656	GCTGGAGCTTCCACGGATTATCT	ATCCGATGTTTCTTTTCGAACATCAAAACTT
CM009656	TTTTCGTGTAATTAAATGGTGTGATCTGA	TTGTCTAGTTAAGTCACATCCTTGTTCAA
CM009656	GCATACCAAAATCTTGTGAATCGCTC	GCAGACAGTCCTATTAAAGGATACATCTACTA

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009656	AGAGAGAGAGAGAGGGTCCAGTAG	CTATGCTCAGTATGCTAGAGAGAGAGAG
CM009656	ACATTACACTTTCATTGAAGCATCTTCATGA	CCGGCTTACCTAAATACTCTAAACCC
CM009656	AGCCTAGCCTGAATCCAAAATGGG	CAAGCTACCACCAACCCTAAGTA
CM009656	GATAAGGATTAAGGCAACCCGACTTC	GAATGCCAATCCGAAAAGAAGTTCATTTTAT
CM009656	CAAAAGGGCTGCAATGCACTAGG	GTCTGACGGTCTGTACGTTTTGA
CM009656	TTTCAGTCCTGCATCGTTTTGATTCTG	GGCTTTTCCAACGCAGTGAAAAGA
CM009657	GGTTTTGTAAATCAAGGACTTCTCTTGTC	GTGGGAAGTAGAGTTCACCGTAG
CM009657	ATGCTAGGGATTTTCTCTTACATGCTTAGT	ATTTCGGAGTGTTTGAGACCGTTAAA
CM009657	GATTGGCTGTCAATCTTCAAAAGCTT	CGTACTACTACCGAAACACGATA
CM009657	CTAGAGTTCTGGTATTACTTGAAAGCAGTT	ATCATTTTCGGTCTAGTTCCATTAGATCAGTA
CM009657	ACAATCCTTGAGGACTTGAAAATGGAA	CCCTACCTACTGTTACAACAACGA
CM009657	AGGTCCAGTAAGAAACATTTTGT'TTTGCG	TCCCAATAAACTTTCATTACACCATGTTTCAT
CM009657	GCTGATCCAAAGTTGTTCACTTCTTTTA	CAAAC'TTGTGTTGGGTCGAGTTG
CM009657	TTGCATTGACCGTCTTTTGAGCC	AGTATATAATTTCTGGCCCACAAC'TTAGCA
CM009657	GTAGAGTAAATTTTGGGCTGACAGGTAC	GGTAGTTGACCTTACTCAACCC'TTTTATAG
CM009657	GGATTCAATAGGTCCCATGCACATG	CTTCGTTTCAGTAGGTTTAAAAAGGTTAGT
CM009657	ATCCTGATCCTCTCGCTTATTCTCTC	GGGTGCAAGCACTTGAAAGGC
CM009658	GGGAAACCTCAACCCTTAGATGTT	CAAAGGTCTTTTGACCCTCGATCTC
CM009658	GGTGCTTAGAAAGAACAAAAACAGATCTTG	TAGTTTTCGGTTCTTCTTGTTTTTCGAGAG
CM009658	ATGAAATGCAGAGAACCACACCATC	AGAAACTAAAAC'TCGCTCGTAGGTATC
CM009658	GGGACGTTGTTAGCTAGCATCTG	CAATCTCTACTAAAATCCAGGAGACGTTG
CM009658	CCATTTGTGAGATATCCTCACTCGAGTAT	GCTCGGATTAGGTTGGAAGGATCTC
CM009658	CATTATATTGCTTGGTTTGATGTCCCTATGC	TCCTCATGTATTGGCTCCACTTCTAATA
CM009658	TTGGTGACACTGATCCTGCAAAA	CCCAGTATGTAGTTAGAGTTTCTATACCCC
CM009658	CAGCTTGTCAGGTGCACTTTTG	CTGGGCAGAACCGTCTTCAATTA
CM009658	AGTGATCTTGCTAACCACTATCATTAT	ACTCAGACACATATTGTCTAGAGTTACAAC'T
CM009658	AGTTAAGAGTCTTGTTCTGTAGTGTGTGA	ATTAGAATACCGCGTTTACTGTTGTACA
CM009658	AATCTCCTACTTCTGGAGAAATCCAA	TACTTCAGACCC'TGCTAAGTAATACCA
CM009658	CTCTTCCCTGGGCCATGATTTTG	GGCTTAGAAAGCTACTAAGGTAGGAC
CM009658	TTGCATTATATGGCCGTCTTGATT	CTTTCTTCCACTAAAAACAAAAGAAGGGAC
CM009658	ATCCTACCAACACCCACCCACAAC	CGGATTTTCTGATTGTTTTCACTTTTACCA
CM009658	CTGATGCACAATTAACAAGAAGGCTA	CAAGTAAAATGATAAAGGAAGTACGGACAA
CM009658	TCCAAGGGAAACATACATTCTACATTCCT	TCTGAACACGTAAATAGGAGATGAACATGT
CM009659	GGGAACTACAGTGCCTTTAATGCA	GTACCAATTATTTT'TAGGTGAATGTCTCTCTCTC

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009659	CAGCTGTGTGGACTTGGAACAAA	GACATGTTAAACGGATGATACTCGACTT
CM009659	AATTAGTTGAATCAGAGATTTGTCTGTATTT	TTTTTGTGTTGTTTATTTGTTAATTAGTCTTCCCA
CM009659	GCCCTTGCTTACATATATACAGTTGAAGGA	GAGAAGTTTTGGTTTTTCGTCTGGCTTGTTT
CM009659	CCTTGCCCTTGATTTTGAGGAGAGTT	CTGTCTAAGAGTTCTTGACCTCAAC
CM009659	GGAGGAGCGTGATTTCCACTTTCA	GGTTGTCTATCTTCTTCACTTTACGTATGAT
CM009659	AGAAGTGTTGGAGATTAGTGTAATCTGCA	AGAACGGTTCTTTCTTGTAACAAAGGGT
CM009659	CTGTGGTGAAATTGAAATCAGAATCTCAAA	TTTAGAGATTTGACTACCTGTCGAGTTAAA
CM009659	GGTCAAGTGAGGTTAGCCAAAA	TGGTTTAATTAAACACACGAAGATGAAGTGA
CM009659	TGGAAAAGGTTATTGATCACTGTGATCAG	CGTGCACTTCAATACGGTTATAATACAGG
CM009659	AGTGCATATTAGTTGTTTAAGCTGCAACC	CAGTTCTACACGCACCTTTCTAAAGT
CM009659	ACATTAATTACGACGACAGCAGTGAC	GGGAAAAGTATAACTTTGGCTTAAAAACCAA
CM009659	ACTAATAGGCTATGTTGAGAAGCTTGATGC	GTTCTTTCTCCTATGAACCCAATCGTC
CM009659	GAAAAGTGGAATGAGATATCGCTAATGCA	ACTGTAGTGTAGAAACAACGGCTAG
CM009659	ACTTTCTGTCTATGCCTGATAATAATGCTG	CAACACTCCTTTTCTATCGTGTTGATAA
CM009660	TAGAAAAGTGTAGACAAACAAGTCCTTGAGA	AGTGATGGTCCCGTCACTTCTAC
CM009660	GGACGTTAATACCATTAACGGCATCAA	AGGTCCTAATCATCTCGACACTGTAAA
CM009660	GTTTGGGTTAGATCTACAAAAGTGCTTTT	GAAATTTCTACACGGAGTCGCTTTAGT
CM009660	GTTGCATACACCATTTGTTTGTCTGC	TGTTTCTTTGTTTACTACCACCTCTTCTG
CM009660	CACCTTCTTGTGTCAAGATTTTCCATCA	CGAACTTTGATGAAGACCAAACTCGAC
CM009660	CTAAGCGAGGAGAGCTCTTTGAT	GGTTTTTCAAACCTTGATTGTTTTGAGCG
CM009660	AGTAGCCATTTCAATCCACAAGTCAA	CAAAGGATCAAGCGAATCCAAAAGGC
CM009660	TCGGGAAGCATTCCTAGTAATTTGTCA	CCTCTCTGAACCTCTCAAACAAACAGC
CM009660	TTTGTAATTCGGCTTATTGATAGGCTGAT	AAGAGTTGTCTGGTGGTAGATATTCGG
CM009660	AGAATGGTAGGCTTATTCATCTTCATGTCT	CTTTTATATATTGGGAGGTCGTCATACGAAG
CM009660	GGTGGTGCTCTTCTTCTCAACG	TGTGTGATTTTTGAGCATGCATCTGTCTG
CM009660	CTCCTCAAACCTTACCATTTAATAGGACGT	CCATTTTTTAGAACAATGACGGAAACTCAT
CM009660	ACATATGGGAGCTCGAGGATGTA	CATTTACGGTGCTCCTCTATCGAAC
CM009660	GGCTTCTCACTTTTTGTACACGAAC	CGAGGACTTTCCCATTAAGACAGATAAATGA
CM009660	AAGTTACCAAGGCCCATAGTCTTCT	TGGTCGTAAATAATAGGGTGATTACACCC
CM009661	GCATTATGGGCGACTGTCTTGAC	TTTTTGAACACATTTTACGCGTT
CM009661	TGTCATTACAAACCGCCACGTAAC	ACTAGAAGCGTCGCTCTAGGATG
CM009661	TTTTGCAGAAATCAGCACAAAACCTT	TATCATGTAGAATCGAAGTTAAGTTTCGGTTT
CM009661	CCCTCCCAAACCTATCATTAATTGGGAA	GGTCCTATTCGAGAACTTAACTCGG
CM009661	CTGCCCCTTGACCTTAAACAATC	TCGACAAGAAGATGTTTCGGGTAAAC

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009661	CAACAGAATATGCTTCTCTTGGTGATTCA	CTGAGCTTCCCAAAAAGGTGACTC
CM009661	GTAGTTTTGTGGATCCTGGATTTGGC	ACCCATTTTACTTATACAAGAAGGTCGTTA
CM009661	GAAACTTGCTGGACCCAGAGAAT	CTTTAGTAGGGTGGCGCTTTTGT
CM009661	ACTCTTCTTGGGTTGCAGATACGA	CTCCCTGGTAAAGATGTACAGAATCAAGG
CM009661	GCATCAAGCTCCAAC TTCAGCTC	CCGAGATAACTAATACCTTAACTACTTTTGA
CM009661	GTCATCCAAAATGCCCACTTCAT	GCCAACCCTGCTCATGCCATATAG
CM009661	TGGACGAGCTGGGAGACTAAATG	GTCCGAGGAAGAAGTTAGGTGAC
CM009661	GGACTTGAGACAGATCCAACATCTG	CTTGACATTTCTCGAAATACACCGAAATTCG
CM009661	TTCCTTGTCGCATGTAGCTTTT	AAAAGTTGGTACAGGACTTAATGGAAGAG
CM009661	TGTCTTCTATGCCATATGGAATGGTTGT	CGGTAAGTAGTCAACGATCTTGTGC
CM009661	TTGCTCACCTGTCATGAATTTGTTTCT	TAACTTATCAATGAATAGATCTGTTGTGTTTGAT
CM009661	CAGAACAAGCTAGCAGGGTACAA	CGAATATCCGGAACCGTATATAGAAAAACAT
CM009661	AGGATTTACATACTGCTCCTTTTGTGTG	TACTTGTGGATATACCTCAAAAATGAACGTAC
CM009661	TTGGAGTGATGGACTAGCTAATACCAC	GGGAATCTCCGTGATGTTACTGGG
CM009661	TGGTCGTGTATTACCTCAAAGTCCATAA	GGGAAGTGTTAACCATTCAAAAAGAGAC
CM009661	ATTGGACTTATAGAAGTTTAACACCCAGTG	CGTCTATTTCGTTTACGAATTCGGTC
CM009661	CTTTCGTAATGAGTAGGCTATATAACGCAA	CGGATCTCTTTACAGATAAACTCCTAACTTT
CM009662	TTCTCCTAGAAATTGACTTTGCATGAATATT	ATGGAGGCGAGTGGTCAATAC
CM009662	TTCTTCCACAAGGTATAAGAATAGCATGTCC	GGAGGGAGCCAATATCTGTACCC
CM009662	TACATCAGTGATGGAGAGTACGATGAT	GCCAAAAACAGAGAGTGTAACCTCCG
CM009662	TCATCAGGACTTCCTATTCATAACATCCAT	CGTGGAAAGAACCAGTTTCGGAG
CM009662	CGGGTATGCTGCCAATTTTGTGG	GAAAACAAAAGAAAAC TCAAACTGCGAAAT
CM009662	GAGATGGTGCATATTGTTTTTAATGGATCCT	GACCGGGTCCACGAATTCCTTTATAG
CM009662	GGATGATCGGTTCCGTCGAC	GGTTATCAAGAACAATTAATATCGGTTGCTGTA
CM009662	TGCCAGAAGACAAAGCCTGTTTG	TCTATCAACCACGGAAGACCATGAATAATA
CM009662	CTCAATAGGACACCATTTTATGCTGAATCA	GATACGTATATGCCTGTGCGACTTAATAAA
CM009662	AGTTTATCATTTCTCGTACTTTTCGTTTCCTA	GGGTGGGTGGTTGTAGTTTACC
CM009662	CAAGTATCAAAACATGCAATATGCTCCTT	TTTTTATGGAAAAACAGGGTTGGTTTACTG
CM009662	CCTCCATATACCCACGCAATGAG	TCGAACCGCTCGTAATGATAATAATTCAATA
CM009662	CATTGGTAAAGGTTACACGAGCATAATTG	GACCTTCACCTCCTAGTTTGTATGGA
CM009662	GTACAACTTGTATTTTCATGTGTACTTGCAT	CGAGGAAGTAAGGAATGGATTTTGGTACA
CM009663	CTGGCTACTCTGACTTGAAAGTTTACAT	TGTTTCTTCTTATTCTTAACTACAACCATTACA
CM009663	TCTTCTCTCTCATCCATGGTGAGTTAAT	CATGCAGTTAAGAGCTACGTCTCATTA
CM009663	GGAATCCTTTAAACTGTTCTCTTCACGAC	AGTCAGAACGCCCATTTGGTTAC

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009663	TGATATGTGGATGGGCATTCACAAT	GCTGTAAAGAAAGAACTTAGCCGAATCG
CM009663	GGTTCTTCTTCTCGATGAGATCACAGT	GTACTCGGTGTATTTGGACTTTTGTGTTG
CM009663	TTGTATCAAGCATGCTCGACTAACTAGC	TACATAACCGTTATGCTTGTGGTCTC
CM009663	TCCCATTTTTTACCTGACAAGCCAAC	CTAGTTTCACTTTTCTAGATGACATTAGGGTG
CM009663	TAGAAAAGGAACTGAACAAAATGTAGCAGAT	CTCCTCTACGACGTTTTATCACCC
CM009663	CATGCAGAGATGGTGTGGAGTTC	CGTGTTTAAGTGTTCGTAAACCAAAGATG
CM009663	AGGCAATGATTGATGGGAATTTGGTAA	GATCCTTAATAAAAAATTCGTGATCAGTTGTACCG
CM009663	CTTAGGGCACCTCTCTCATCTC	CAGGTCCGTGAATCGTGTGATCG
CM009663	GGGATAGTTGTTATCATGGGAGGATTG	GCCCGAATGATTTATCGTTGTTGAGC
CM009663	CAATACGAGGCATGGCACAATAGA	CGGTCACCTAAGTACAAACTGCG
CM009663	CTTGCTGGGAAAATTTCTATGGTTGATTC	AAAACAGGGAAAAGAAAAGTTAATCGTGTTC
CM009663	GTGGAATGACAGAATGGAAGGGAAA	CCTTTGATCTTTTACTTTTGCTACTTCAAGCC
CM009663	CCTTATCCGTGTTAGCTGGAGTC	CAAGGGTCCTTACACAAAAATGTATTACTTA
CM009664	TCATTGTGTTTTTAAAGCAACAATTTTGCAC	TGGGTGGTTATAAAGAATTACCCAACATTAA
CM009664	GAGAATGAATATAAGGACTCGGAAAATGAAATGA	GCTAAGATTCCTGGACTAGTTGCAACG
CM009664	TGGTTTGTGTTGATTTAGCTATTTCACTTTTCTTA	AAAAAGAGTAGGAGTCCAACACCG
CM009664	GTTTCAGGTAAGCTGAGTGATATTCTAACAT	TTACTGTTATCCTGTAAGAGAAAGGAAAAAA
CM009664	TGTCTCCAATGTTTTTGTGGGAAACC	AGTACTCGTTTCATGAGAGAGCTACAC
CM009664	AAGTTAAGGCTTAACATGGTTAATTTTCCC	CGGTTTGACGTCCCTAAAACGG
CM009664	TAAGAAGGAGAATAGCTGTGTCTACAAGAA	ACTCATGTTATATGTTTTGTATCGAGGGTAC
CM009664	ACGTCTCTACATGTCTACAAAATCAACAAA	CCTGGTGAACTCTAAATAACCCAAATAAACG
CM009664	GGCAGCAGGGTACCATTGTAAGG	ACCTCCTACTTGCAAGGTTGACT
CM009664	GGAACCGATCGCGATCCTAAATA	GAACTTCGTTACGTTTCTTTTTCTTCGT
CM009664	AATGCCATTTGGAAAATGAAATTGGTAAGT	GAAACCGTTTTATAAGTTAAGAGAAGGGTG
CM009664	ACAAGAATTGGTTGGAAGTAGCGTTT	CCCTTGTGGTTAAGAACAAGAAGAAACA
CM009664	TGTTAGTTACTTCTGTTTATGCCCTTAAGATCT	CCACCCAAAACCGGTACCTT
CM009665	ACAAGCTTTATACATTCCATGTGTATGCT	ATTTCTGTGCACATGGATGTTGGTACC
CM009665	AAAGTCAGTGTATAATCTTTTACAATCCATCCAG	TCGTAAAAGGTATAGATATACTTGTTCAACTACA
CM009665	ACCAAACTCTCCAAACGTCGTTG	AAACGTAACCTTACATCTAAGATTTCAT
CM009665	TGTTTGAAGCAAGTATTAAGATGAGCTTCTT	GAACTACTACTTAGGTAGAAAGGAGTTTCT
CM009665	TGCAAAATGTTCTGAAATCCTTGAGAACT	GTTATGGTCTCAGTAGTTCTTCTCCTTCA
CM009665	ATGGCACATGTAGTTGAGGAACTC	AGATTGGTAAACCTTTACCTAACGTCTAA
CM009665	TTTGAAATCCATTGTGTTAAAACTTCCAAATT	GATCATTATGTTTTCCAAATCGATATCCACGAAA
CM009665	GCATCCAACCTTAGAGTATGATTATTCTGAT	AGATTAGTGTAACTCGAATCTCAACAGACC

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009665	TGTCTTTCCGCCAAGTTTGTGAG	TACGAGATCTATTTGTCCATAAATCACACGT
CM009665	CCCATCATTTTCTGGCGGAAGATC	ACAGTAACACTCTAGAACATGAACCACG
CM009665	TGTTTCATGTCCACTTCATAGCTTTTGT	AGAACTTTCAGAAACCTCGTGATTTAGAAG
CM009665	TGTCATATCCTTTGATTTGCTTGCTCTTT	GAGGTTACCGTACTAACTAACTCATTAATG
CM009665	TAGGGTCTCCTACTCCGGTCTAC	TTTAATCAGCGGATATTTTCAGGTAAAGTCAA
CM009665	TGATTACAAAACCATGCCAAGATATTGGAT	CTAAAAATCTTGTCTCGGTTTATGCATGCG
CM009666	GCTTTCCTAGGTCTCACATGCTA	GGTTAAGTTGGTACTAAGAAGAAAACGAAG
CM009666	AATTTACACGCTTGGCATCGTTTTT	GAATTTCTACCTGACTCTGTGGGTAAC
CM009666	GGGATAATAACATTGTGGCAATTTGAGCA	CAGACAACTAATAACAACCTCAGACAAACAC
CM009666	TAACAAGGAGACAAACAAATAAATTCGTGCC	CACTATACACTAATATGTACACCACGTTAT
CM009666	TGGAATTTTGTGTCATGCTCTATAATGAGCAA	GTAAGTGTGGCCATTTACTTATTTCTTCTTC
CM009666	GAGTCTGTTGCTGCAAGGTACTT	TGTACAAAAACGTGTAACCTTTAACGTATGT
CM009666	TAAGATTTTGAAGCGCTCTAGCTATAAGACG	CTGTTTAATAAAGGGTAAGACTGCAAGTTC
CM009666	AATTTGTGGTGTGTGGTGCCTATT	ACTTCTTTACTCTAAACCTGGCAACTTC
CM009666	TGGGCATCAATCAGATATATGACATTGGT	GTTGTGGATTTCGTTCCAAAGAACTTTTATA
CM009666	ACATGCATATTGAGTGTATTGCAGCTT	GACGCTACAACCTTAACTCCATCTATCG
CM009666	GATGCAAATGACATTGCTTGCATGC	CCTCGTACCCAATTTACTTCAACCG
CM009666	TGTAACCTTGTGGTGTGTGCTGTT	TTTGTGTCTGGTGTAAAGGTTACTAAACT
CM009666	GGGAAGAGTTTTTAGCCCTAAATCATATCAG	TCCACGAGGGCAAGAGTTCTATA
CM009666	CTTAGCAAGTAGAACCAACTCTCCAT	ACTACAATTCTCACTTCAAGTTACAACAGTA
CM009666	CACAAACCCTAGAGGCGGTTTAT	CGCTCAGTGGAAGAAGTGAGACA
CM009666	TCTCATTTTCAGTGCCATGAGAAATAGAGG	TCACGATTGTTTGAATAGATTGGTGAAACTA
CM009666	GCTTTGAGAATTTTGTAAAGAAGAGTCAACAG	TAAATCCGATCCAACCTAACTAAACCAAAAT
CM009666	ATTCTCTTATCTTCAACTACACGTGTTGAT	CGTATACTACCACTAATTTGTGGTTATGGTT
CM009666	GAATTTTAGCTCTTCAATCTCTCTCATTGCA	GTTTACGAGGTTTATTAATAAACCTAGGAA
CM009667	CTGTTATCTGGGCATGAACCTTGTGG	CGTCAGGGTATTTCCCTTTTAGATGGAGT
CM009667	CAGTTGCTCTTGATTGAATTTTGCAGA	CCTGGAGAATTTTCAGTCAACGAAGAC
CM009667	ATCCAACCTAGTTACTTAACACTATGCACAC	GATGCTTACACGGTTTGTTTTGTTTTTC
CM009667	AATTAACCAACCCATTTCCCTTTACATCAAA	ATTTAAGTGGTGGTGACATCAAAGTAAAGTG
CM009667	TTGACCCACAACCTTGACCACATC	CCTACTCAGGCTAAGCCTCTCTG
CM009667	AAGAAGTGAGAGATTTGAACCAAGCTG	TTAAAGACGTCCGGGTAAAGTTCC
CM009667	GTAGTAGTTGTCTCAGCTGTCATAAATTCAG	GGATTAGAGTGGTTGTTTCTTGAGTTAAGA
CM009667	ACCTAAAAGTTGTCTTTAGCAAGAGTTGAC	TGACACCGGGTTGGAAGTTTATAG
CM009667	ATCGATGTATGTTTATGAGTGCCCTTTG	CAAGTAACTGAGAGAAAAGATGAAGGGAA

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009667	GGAGCTCAAAAATTGGTTACTAATGGTTG	CTGTCGGGAGAAAAGTTAGTTTTCTGC
CM009667	TTAATCAACTGAATATGCGGTCCTCAATC	GGGTCTTTATCGTATTGGTCTCCTAG
CM009667	CAAACCTAGCTCTGGGCTTGTAG	CATCACTGTACAGTCGGTTTTTAGAGG
CM009667	AGAAAACAGTTCCGAAAAACAGTGCA	TGTCGCTCCAAAGATGAACAGTTAAC
CM009667	AGGGAGTAACAACTAAAATAGAGTAGATCTGAAT	GAATGTTCCGTATGACAGTGGGTC
CM009668	GGCAACATGTTGAAGTTCCATATGCT	AGTTTCCAGTCGTTTCTAGTGATCTTTTC
CM009668	GGTACTTCTACCCACCCAGTGAC	TAGTAGTGTGGTAGTTATGGATAAAGTCCA
CM009668	ATCAACACCAACCACCGTATC	TGGAGTAGCGCATGGAGCTAATG
CM009668	TCACCTGATTCTCTTCTATGTTGATTGT	CCGATAAATACCAATACTTCTGGACTAC
CM009668	TACAGAAATTAACCATCGGATTCCGAAAT	CTCCTTATCACAGCTAAACAACATAAACAAG
CM009668	CAATTCAACTCCTCATTTTCATCTCCTTTTGT	TTTGGTTCGTCTTGTTAAGACCAACA
CM009668	AGCATCATTTTCAGTTTCAAACAAAGCTA	CCAGTGAACATAACAGTATAACAGTTAAGTAT
CM009668	GTTGAAATATATTCAGCCTGACATAACTGCA	TTTATTTCTCTTACTCCTGAACGGACAAC
CM009668	TGTTTCAGCTTGATGATGTGATCGAT	GTTACACGAAACGGTAAGGGTATAGT
CM009668	CCCAACCAGTTGGAATAATACCTTGGC	GTCCCATCGAGCTAGCTTACACG
CM009668	GCTGGACTTCTGCAACTTTAGCT	CATACCGTACCGGAGGTCTATTTTC
CM009668	AGATGTCACTAATTCCTTCTTGTTTAGCTTA	CTCACGACCAGATCCTAAAAAGGAGC
CM009668	CACCAAATGCGGGATAAGGCTAG	CGGCAGCCTATCATAAGGATATGGAAC
CM009668	GTCAATAAGCAAACGAATCACTGCAT	CCTGAAAATCTTTACCCTCTTAACACAGC
CM009668	CAAAGAATGCACAAATCTTCTAAAAACCCAG	ATTGTTGTCATGAGAAACAAAAACCCAAGAT
CM009669	TGTAACTCCAAATTTTCGGCAGATGAA	CACCACTAACTTATCACAAAACAAAAACAAAAA
CM009669	ACAGACGTGTGTCAAGAAGCAAG	CGACATTGAGAAGGAGGTGTGTC
CM009669	TTGTCAATTAATTTTCAGGACCAAGATCCTC	AGAGGTTTCAGTGAGGGAAACCTG
CM009669	TGAAACTATGCCAAACCTGTCAA	AAAAAGAAGAACCCTTACTAAGTCGTGTTTC
CM009669	TCCACAGACACACCTTTTCATCTGC	ACGAACACGGGTTACAGGATAAAC
CM009669	AGTTATATGCAATGGTCCAACCACAG	TCTTCTTGATGTGGTTTCATTCTAGTAGAAC
CM009669	GACCTCCCAAATTTTAGAGTGTCCTG	AACAATCAAAGAACCCTTGATCGTGATAGA
CM009669	CATGCTTGGTTATGTAATAGCAATGCAA	GTAGCTTAGGAAGAACCACCTTC
CM009669	GATCAGCAAATTATCACCACATCCCTAA	TCAAGGAGTTTGACCCGCAAAAC
CM009669	CGGTGAAGTTATTTGGGTTTTGAGGTAT	TGTAAAAGTGTTAAATGACGGTTATTTCGTAT
CM009669	CTATGCTTTCTTTTGACAAAAATATGCACCC	CAAACGTCCACATGATTTTCAACAGTCA
CM009669	TCCTCCCAAATCAATGTCCTCAAGT	TGGTTTTGTGCAAAATCTTAAACGTCAAA
CM009669	ACCATTGCATCAGCTATGTGTGTG	CGATATTATCAACTAAAACGTGACGGATAT
CM009669	CATACCTTTGAACCCGAGATCTTC	TTTAGCAGTAAGATCACTCCAGTTATCGG

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009669	CTTATGGGCTGCTACTCTTGACAC	ACCCAACCTCAAACCTACAAAACCAC
CM009669	AACTGACCTTGCTCCAACAGAAT	TTATCCTTCTAGGGTTTTACACAACCTG
CM009669	GCAGGTTCACTCACCAGGTATGA	AGCTCGTTTCTGGACAACCTTCTCC
CM009669	TTAGCTATAAGTAACTTGGGTGGTTTCAAGT	GTGTAGAATGTAGACGTTTTCATTATGTTACG
CM009669	GGAATTATTTTTCTCTTAGGACACAACCTA	TCTGATAATAGCGTTCTACGGAAGAAAAC
CM009670	CTGATGCATTTTTGTATTTGTGATTTCATGCC	ACGAGTTCATCACAACATCCAATGAACA
CM009670	GTTTGGATTGCCTTCTTGATCAATGAC	ATAGTATTTACTAGTGGCAGTCGTGTTAATA
CM009670	GATGAAAGTGACGTGACAAGCAA	CGAGGGTACCGATCACTTCTAAACC
CM009670	GGATGGAAAATCACGATAAACAAGATTCATT	GACACAACAAGGATAGCAGTGTGTT
CM009670	TCACAGTTGCCATGGTCTTGATG	GGTCCACACTAAAGAGTAAGATTTGGTTTA
CM009670	GGAAGAAGAGTCAAGTAAGTAACTAGCAGT	AAATCCTGGAGACGCATTAAAGTTTCTTT
CM009670	TACTTACTTTTGTACAGCTTGAAGAACAA	GGACTAAGTCACCGGATCACAACCT
CM009670	TGCAAAATTACAACACTACCACATGATCAA	CGGGTTTATGGTGTGTAAATCTCGTG
CM009670	CAGCATGTAAGGGCTTTTCCAAAG	GTCCTAAAATGACTAAAAACAAAGGTGAGTA
CM009670	ATGGAAGAAGATACGAGCTTGAAGTGAT	TTATTTGTAGACGTTTCCCATGCACTG
CM009670	GGAAAGTGATGCGGACTTATAATGAGAA	ATAAGGTAAAGCATTTCAGTTTCTTGATGTCA
CM009670	CTATGGTTCTTAACTCTTCTCCTTGATTCTC	CTTAACACAAGTCGCACTCGTAAATTG
CM009670	CCGTGTTGTCCACCAGATTATG	GTTCTACGTAGATATTAGTTGTAAATTCCGG
CM009670	TCCTCCACTAGAGCCTTCTCTTTTC	CCCAACTCAACCCACTCAGTACG
CM009670	TAATCCCCTGTCGTCGGATGAA	ACGTACGTATGCATATTGTTTTAGACGA
CM009670	TGATAATTGGTCACTTCTACAATCGTTACCT	CCAAATAACGGTCTCTCGACGTATAAC
CM009671	TTTGGCGTTCTTCTTCTTTCTTTGAATCC	TTCTTTTAAACGAAAATTCCGTAGTAGTAGT
CM009671	GCTTCCGGTAGAACTCATCCATC	GAAGTAATCGTGTGTTGGGTTCATTTTAC
CM009671	CAGTCTTCCCAGCAACTTGACAA	GTATCTGTGACTAGGACTCCTCTCTATAG
CM009671	TTTGCAGAAAGATATTCATGAGTTAGTCTGAA	GAATCTTCTGCTCTTGGGTCCAAATGT
CM009671	ATTTGTGCATATTGTTTCATAGTCAATGATTTGGT	GAAAGTTGTTTCATTATTTGGTGGAAGAAATTTCTC
CM009671	TTTCCTAAATGCTTCTAAATGTAGGCCCTTC	TAGTTTTTGTTCACTTAAGGTGATGAACG
CM009671	CACTAGCCATGGTCAGTACAATCTTTT	GTGGTTACCAACATCATTAATACCAAAACAT
CM009671	GACTCTCTAAATTTCCCATAGCGGTAAA	TTAAGTTCCCGGACCATCTTAATGGG
CM009671	TCCTCAACACTACTATTCCTTCCACAA	TAAGGAGGTCGGACAACAACAAC
CM009671	CTCCAAGGATTGCAGCCAGAAGAG	CCCACCAGTATGTCCGTTTTCAAC
CM009671	TCAAATAGGATCCATATCCAGCAGGATC	GAATACATGCACCTTACGGTAAAAGTAACAG
CM009671	TCTACTCATCCCAACACGAGGATA	GGTTGTACAGAATACGAACCAATTGCG
CM009671	CGACAAGCTTGCACTCGAAAAAG	AACTTTTGTAAATTAAATCTGGCGTGGAAAAG

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009671	AGAGAAACATTGTCAAGGAAAATGGTTTCA	CTAAACGCAGGAAGGGTTTTGGT
CM009671	GATCCCTCGGAAGCTTGTTCTTC	GGATTAATTTACTAGGGTTAGGGTTCGTC
CM009671	TCGCGAACATGGTGAGTTCATTA	CTAGTTTCTTTCCAGATCCCGACTATTTTAG
CM009671	CCCAACATAAATTTGGCATTTGAAGTT	CACTAAGGAATAGACATTATACTACGGTCTT
CM009671	GTTGTTTGTATGCAGATTCGAGCAC	TAGGGTGCTTTAGACTGTACGAAC
CM009672	ATTTTTCCACACTTTTGAGAGGAGAA	GAGTGGTTTAAAAACAACAAACCAGTACA
CM009672	TGCGTTTTGGCTTGATAGTGAAGT	GGATTACTGGTTTTCCATCGAAGTATAAACA
CM009672	AAGATTAATCCAACACCAAGTCATACATATCAAA	ACTCTAATCTTAATCCCACTTCATAATCTACCTT
CM009672	GGATTCCAAAGGAAACAGAGGGATAGG	ACTAGGACGTTCACTCAGAATAAATTGAAAA
CM009672	TGTAACCATGTCCACCGAATATGACA	GTACTAACGTCCCAATTTAGGTTTTAAAAAT
CM009672	GGGTATAGTCTGCCGCTCTACAG	CCAAGGTAATACCTTACCCATGCAC
CM009672	TGATGCCTTCCAGCTGGAAAATG	GCACTTACGTAGATGTCTTAAGATTCTTTTG
CM009672	AAAAGACTAGCTTCTCCTTAGATTTTGCTTT	CTCGGAGATAATAGTTACCCGATCTAGG
CM009672	CCCAATTTGTCTTGGCAGATATGA	GAGCAATACTTTCCAGTGTACACAATAGATTCT
CM009673	CCAAATCGAAATCAGGTACTACGTAGTT	GGCACATCCCTCTTAAGGTTAGCC
CM009673	TTCTGAACTTCTGCTACTTTTGTGGTC	AGCGTTTAACCTAGTAAAAGAACAGGT
CM009673	CCATGATCTGGAGAGGTGAAGGTG	ATATCTATGTGTCTGACACGAACTACT
CM009673	TCAAATCAAAAGCATGGCACTCATGG	GTTCCTTCTTTATTTCTGCTTACCTAAGTAG
CM009673	CAGCCGACTGAAGTTTGACCTAC	CCGTAAAACGCGGAGTAAAAATAGG
CM009673	TATAAAGCAAGAGGTGGGACCCAAAA	AAAAACAATAGTACGAGTTGTATGGACAA
CM009673	CCAAATCCTAAGAAAGCAATATAATTTGCAGA	CGTTTAACGTGTTGAGAGTTATGTAAAACG
CM009673	TCAATTTCTCTTTGCTCCCAGGTTACC	ATAACTCGGGTACGTTCTCTTTGTTGTTTCC
CM009673	GAGAAGAACCAACCCATGCTGAA	GTTGGGACAATTTGTAGTGTATGTACCA
CM009673	GATAGCATGCTAGGGATAGTAACACCT	CCCTTTGTGTTATTCATAAGTTACCTCCAAA
CM009673	ATTTGGTCTTGCTATTGATAAGTAAACATAAGTA	CTTTCCAAATTCGTTGGAAATAGAGACAGA
CM009673	TGGAGCACAAATGGTTGTCCATT	GTATAAGTTTAACCCACAGTTTCTTTAACCA
CM009673	GCTCGGTGACAAACCGACTTAAA	CCCGGAATTACCAGGTTAGGTTG
CM009674	TCTGAATGATGGCCTGCTCTCTAG	AACTTATTGTAGTGTCTCAACCAAGACAA
CM009674	AATTGTTTTGGCTTCGAGATGACACA	GTTGGGCAATTGCCCTCTGAGAG
CM009674	CCCGACAATGGATGTACAATTTTGGT	CAACCTAACGTGTTGCGAATCAGC
CM009674	AAATAGCACGATTTGTATCTCCGGTTA	AACTCCAATCACGAAAAACAAAGGAATTTACT
CM009674	TCTCCAATTGTTATAACTTGGGCAGAAA	CCGAGAAAAGTATAGACTAATACTACCTTTTTT
CM009674	TCCTGTTCAACAAGTACTGCAGAAGA	AGTAAGAAGTTAACCACCATAAAACCAAAT
CM009674	AGGCTAAAATGATGTTTTTGGTCTATTAAATCA	CCGAAGATTGCTCTATCACAACATCTAAAAATC

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009674	TCCAGGATACAACAGGATACGTGTT	TGAAACACGTGTGCTAGTGGAAG
CM009674	AGGAAACTTTTGACGGAAAAATTCACAA	TTAATCAACCTTCGGAAGTTTGTTACTGG
CM009674	TAGTTACTGGAATGGCTGAATTTGAGGC	CGTGTCTTTTAAAGTGTGGAGAGTGATG
CM009674	CAAATCCATTACAAGACTAGGGTACCATTA	TCTTCCAAGACTCAAACGACAAGAAA
CM009674	AGGACATTTGTGACTGAATGAAATAATGGG	CAACAACCATAAACCTTTCACTGCTG
CM009674	GTACCACCCGTTTTTGAAAGCCT	AAAGAGTGAGCATACCTTACTGTCTTCG
CM009674	AAATGAAAAAGAAGCTTAGCTCCAGGTAT	AAGGAACCTTGAGTAGTAGTTAGTCGAA
CM009674	GCCACTCCCATTTATTTATGGGCAA	ATCAGAGAGAGATTCCGTCATATAAACTCGT
CM009674	AGACCCAAGACAAACAAAGGTCTGG	GGGTCCAAAAATATACCTTCTGTTCGTAATA
CM009675	CAAGGAAGAGTCCAAGGTATTGCTT	GATTTGGTGTTCCTTAGACTTCTTGTAACG
CM009675	GGGTCCAATATTGTACATCATTTGGTTGC	CTACCTAAACGTCGTCAGCTTTCT
CM009675	TTTGTGTGAATTGCTTGCTACATTTTATATCTCCA	TCCTCTACTAAAATGTACTTCTCTATAAAAAATT
CM009675	ATCTAAAAATCCATTATTGGTTTCATTTGCAAA	GAGTCTTGTCTCTCTCTTGGTCGAGT
CM009675	GTTTTTGCCAGCTAGAAAAAGTTAAAGAGAAA	TAATGTTGTTTCTTTTTCACGTACAGTCTTTTT
CM009675	AAACACAAGGGCTGCTTTGTAAATTAAAT	ACAAACAAAACCTGTTAAAAATCCAAAGCCTAT
CM009675	AGAACTAAATTCAAGAATGCCAAATTCCACT	AAAGCACGTCTCACTCGTTTTTACA
CM009675	TTTTTATAGACGAGTCGGAGATGGTCTA	GACTAGCCGGATTATTTTAAACGAACCG
CM009675	GAAATTTGGACCAGAGCCCTCAG	TGTATACTTTTTTAAATAACAAAAGTCGAGTGGTT
CM009675	GGAAGGAAAAAGGTGTTAACGGGTAT	TTTTTCGTAAGTGTATAGTTTGTAACACTTT
CM009675	CCCGTGTCTCCACAAAGCTTATG	ACTTTAACAGAATCACCCGGTAGTAG
CM009675	GGGTGTGTTGGAGCCAATGGTA	TTCTCTCCTCTTATAATAAGAGGCAAAG
CM009676	GACAACCTAAGTGGGCACACATAC	GAACAACAGTCGGGACTTAAATTGACA
CM009676	TCTGAGAAGCAAAAAGAACAACATTTTCGG	TAAAGAACGTTGTACAAGGTTTCATATACAAT
CM009676	CTATGAGCTACCAGCTTAAATGGTCAA	TTTTTGTCTCTTCGTTTCACTCTTTATGTG
CM009676	TCCTACAGTGCCATGAGTTCTCTA	CCGTAAAAGACTTCGTAACTTCGAC
CM009676	AAAAACTTCACAGAGTCCCAAATTCCTTGA	TCATTCACGTTATTGTCTTAACGATTTTCGT
CM009676	GTATCAGTTGCCCTAGTGCTCTA	CAAACCTCCACTAAGATTACCGAC
CM009676	TTTCAACTTTAAAAGCTTAACCTAACCTGAAAAG	GAAGAGATACTACAAAAGAAAAGGACAAAACAA
CM009676	TACTTTGAACCACCTCATCTAAATGCC	CAAACCGATCGATGAAATTCAGGGAG
CM009676	GTTTCTGGTGGGTCCAAATTCAGG	AAGTACTAAAACCAAAGTTACACTTCCATGA
CM009676	ATTCTACATAGATTCTGAGGACCACATC	CTTCAAGAATTTTACGTACGAATATACACGA
CM009676	CTACTTATTACTCGATAATGGGCAGTGTTT	CATTGCGTCTATTTCTCATCAATTCACAAA
CM009676	CCTTCTCTCTCTGCAGGTGGAAT	TCTTTTATGGAGTAGGTTACTCAATAGGTTT
CM009676	GGACACGCCAGATGATTTACTC	TAAACACCATTCGGAAGACGAGTC

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009676	GAACATAGAAGCCAGCTCATATTGCT	TGATTCTTATCTACACTTGAGTGATGTACGG
CM009676	CGCACTCCGCCATGTAATAAATG	ACTTGAAGTCTTGTCAACCCAACAAG
CM009676	ACCCAAC TTCACAATTCCTCTAAATCA	GTTTTAGGAACGCGTTGTGAAGG
CM009676	CCCAATGTGCAATATGAGAACAAAGAT	GAAACTGGGTCTGATATATTAGGAAGACACA
CM009676	TCTCAAATTTGGTAGTGCTTTTAAGTTGGAC	CGAGTGACTTTTGTGTGTAGTTTTCT
CM009676	AATCCAAC TATGTTGTCCCTATTACAGCT	TTTTTAATTGTTCAAAGTTTCACGCAAGTTC
CM009677	CATGAGAGTGCTTTGGCTTTTTGCC	ACCGACACCCAAC TAAGAACAGT
CM009677	ACAAGGCTCGGAGTGGTAGTATG	GGTTTGGAGTGAACCTGAAGGTAAAG
CM009677	TATGGGTATTAACGTGTCTCATTGAACTTGA	GCAAACCTATCCGTGGCATACTAAATTTATG
CM009677	GCTTACTGTTGCAAACCTTGCAATCA	TTAGTTTTAAACGGAGAGTGACCTACC
CM009677	ATGCCATAGAGTATGTTGTTTGCAGAT	GAGGTGAACTCCTTTGGATCAAAC TAAG
CM009677	ACACAT TATGTACCATCTGATGATTCAGGC	GTCCGTAGAGGCTGTCTTAGACT
CM009677	TCAATAACTCACCACAAGCAGGATTA	ACAGAGGACTACATTACCTGAAAACTCC
CM009677	TATATTTGTGTGTGCAAGCAATAGTCAATCTC	CATATTTTACGGAACACACCAAATTTTGACG
CM009677	TTTCTATGCATTTGCCATTTCACTTCTTCG	AAGTAATAAGGAGGGAGGCATAGGTA
CM009677	GCCTTGAACAAATGGAATCTCATACCG	GGAGAGAAGCGTTTAGTGGTACAAA
CM009677	ATTGTCTCAACAGGGAATGGTACTTCT	TCTCACGTGGATACTTCCTCGAC
CM009677	GCCAATAGAAAGCGGAAACAGATGT	GAAAGTACTGCTCTACCGAGATTAACATG
CM009677	AAGTTGAACCAATTTTCAAATTCACCAACA	TGGGTCCAACCTCGATTTTACTCG
CM009678	GTCATTTGAGTACTCTGTAGACAGCAT	CGTATTTTAAAGGTGTTT CAGTACGTAAAAGT
CM009678	GAAGTGTTACGCCAAGGATGGAT	TCCAAAGAATAAACAGTCAATTACTCACCAA
CM009678	CTTAAAGAGATCCTAACTATCAATTTGGTTTGCT	GTTGAAGTCCCTTAGTCCTCTTACAG
CM009678	GTAGGAGAGAGAAAAGTACAAAGAATCCAGC	CCTAGCAAACACCTATTTCTCCCTC
CM009678	TGTATGGTATGGGAAAGTCGAGTTTTGA	GTTTACTTTGATAGAGGTAAGGAGTAACCTT
CM009678	GGGATCAACACCAACTGTACTCTT	TCTTTGTTCCAAAGAAACCTCGTAAAGC
CM009678	CATCCCGAACTTCTTGCCTTGAA	ACAGTCGCGGTTAGTTCTCTAAAG
CM009678	CCTAATGACCCTCACAGGGTCTAT	GGGAGGAACGGAGTTGTTTGTAC
CM009678	GCTCACTTAAGGTTGGTCGATCAA	GCCTGGAATTCACCCGGAGAATC
CM009678	AGGCTTGCTTTTAGAGAAGGCAG	TACGTTTCGGTTGTTGTTATTTTAGTTTCG
CM009678	TTTTTGCCAAATTACCTTAGATTTGATGGTT	AACTACTTGTTCCTTTCCGGACAC
CM009678	ATGGAGGTAATCAGATTACCTCATAGTCTT	GGAAGACAAAACCTTACCAATAAAACAAAGG
CM009678	CATTGGTTAAAGGCCATTCCCTAGTA	GTTCATATCTTAGTGTTT CATCTACAACCGTA
CM009678	GCAGGCTGGTTAAATTGTACAAGGC	AGGTCGTGAGTCAGAAAAGTTAATACTTTTA
CM009678	CCACGGATTTACACACGACAGAG	TACGATCAAGTGAACCTCATGAATCGTTAAC

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009678	CCCGGTATGTGTCCTATCATTTTTCG	CTGATGATTTATACAACCTGACTCGTTTTTCGA
CM009678	AAGTGGACCATACCCAATTTGGTA	ACCGAATTCTTTTGATCCACAACATTACTAA
CM009678	CACATCCTTACAGATCCCACACTT	GGGATATTCATTGGTGTAAACGACAAAGAAA
CM009679	CAATGAGGAGGAGTCCAATGCAC	AAACTCGTGTCTGTACGACTAAAACA
CM009679	GTATTTCAAATATCCACGTGTCATGCAA	TCGAAGACTACCTCACCCCTTCTG
CM009679	CTGCATTTTCTCAAATAAACTGAGAGCTTC	CGGAACAATTACAGGAAGGTGGAAC
CM009679	GAACTTTTCCAGTTCTTCCTTTTTCTTTCTT	GACACACGTAGACTATTGTCCAAAATAAAAG
CM009679	CTACTCCGTATCTCTAAGCATCCAAC	CGAGTACGTAAAGACTGTGCGAGAC
CM009679	ACTTCAAAGCAAGTAATATGTGAACAAGCA	TGTAGACTATACCTACAGTTTACGTAAAGT
CM009679	CTATTTGCAAAAGTCCCAAGTGCTTT	AAGAGCCGTTCTTAGGTTTGAATCAA
CM009679	GTGGTTGGGATCTCTGTGACATT	GGCGGTGATAGTGTAGCTTTAAA
CM009679	GCTAGGAGTGTGTTCTAGGGAAA	TACGTTTCGACTATATTAAGCTCCTCATAAT
CM009679	CCGGTCTTGATGGAGATGGATTG	TAAAACCTCCACGTACCATTCGAGTATG
CM009679	CGCGCTTGAACCTCTCTGTTTGT	AGAAGTTTAAGTTCTAGGTATGCATCGTAGT
CM009679	GAAAACCATACCCACATATCAAAGGTCA	CAAATCCGCCACCTCTCACTT
CM009679	TGGATTTATTTGAGGATTCGGAGTAAGAACC	CATCACTTTTCTCAACAAAACATTTTGAACGT
CM009679	GAAAGACATTTACTCGTATCGAAGCAATTTT	CTACCGTTCTACTAGGTACGAACG
CM009679	GCCCTCGGAACCTTAGCTGAAGA	ACATAAACAGCTAGTAAACCTTGATACTGTC
CM009679	GTGTGTGTGTGGTTAATTATTAACAACCAAT	CGATACCTGGAGAGTGACGTCTT
CM009680	TGAACTCCTGCATATCTTATAAGCCTCC	TGACTCTTTGTAAACCAGTAGTGCTG
CM009680	CGCTGCCTTCTCCTCATTCATTC	TTAGAGTTAAACGGGTACAATTTGAACTTA
CM009680	CCTTGCAATAATGAAAGTCCATCCATTC	ATTGGTGTCCGAAGAGTAAACACTTTT
CM009680	GGAAGTTGTTGCAGTCTAGTTCACTC	TGTACTATTGACTTCTAGTTGAATGCGTAC
CM009680	CGGAACCAATTGTTCCAATCTTTGCT	CGTGAACGGATTGTGGAAACAGTG
CM009680	GTGCTCCATATGCATAAATTTAGCAGACA	AGTCTACTACTCCTTCCACTCTCAC
CM009680	GTTTCATACTAATGGCCTGGACTGAAT	AACGTTGGTCAGAAGTTGAGTGAT
CM009680	ATTTATCTTGAGAACTGGTTCAGATCGTG	TAACCGTAAGGAGGTACAGGATTTTA
CM009680	TGACAGCGAGAAGTCTGACTCTG	CCAGAGTTACTTCGAAATCCGGAAG
CM009680	GGTGGTCCAATATTTACATTTTACCTTGCT	GAACTAGGTTTGTGTCGGATTTCTTTTTT
CM009680	CAATAACAGGGAACCAATCAATACGCC	GTCGACCTAAATGGACCGAGTTT
CM009680	CGACAGATAGAACACCGTTAGGGTAG	GAATCACGTGTTTCGAGGACGAATC
CM009680	GGACACACACACACAACAGTTTGC	AAGGAAAACCTCCCAACAGAAGGTG
CM009680	ATTCATACAACTGATCTCAAGTGATTTGGAC	GGGTGAAACTGGTCTTTTGACATTGAC
CM009680	GGGTACGCAACAATAATGACTTCTAAAAG	GGGAAAACACGGAAGTTAAGAAAAGTATAAAA

表 A.16 (续)

染色体	正向引物(从 5'端到 3'端)	反向引物(从 5'端到 3'端)
CM009680	TGGATCCTTGTTTGATCTTGCTTATACAAC	CTACTTAACTTCTACACGAGCGTTTC
CM009680	AAATTGTTGCAATAACAATTACCAGCAATCT	GGAACGTAGTGATTCTTATGTCGTAACT
CM009680	AGCCCAACAAAGGGTGATGAAAG	CCTTCTCGAAAAACCAACAATAACAAGAAG
CM009680	AGATGATACCAAAAAGAATTCCCAAGATGAT	TCACTCCTGTAACAAACCACTTGTTG
CM009680	GGGAGGTTAATGTAATTAATAAACCTTTT	CTAACTCTCCTTCGTACTGTGGTTATAC
CM009681	ATCCACAACCCTGTCTTAGATTGTGG	AACAGGTCCAAATCCAGTTTATAATTTCTGAAG
CM009681	CAATAATATCCTCGTTAACTTGGTACCAGAT	GCATAGATTCTGTATCGCGCTAAAATGC
CM009681	CTCGAAGGCATGAGCCAC	ATTTGTAGAAGTTAAGTTTGGAGTTTGGAGA
CM009681	GAAAGAACAAATCGATACAGAACAGATGA	GGTCATGGTAAGACATGAACAGCAG
CM009681	CCTATTTTAGGTTTATTGAACCGCTGGTATT	ACTTTCATCAGAATTGAGCTCAAGTCAGTC
CM009681	CCCAAAGTATAATGGTTTGTACAAAATGGTG	TGAACGGAAGTTGAAGACCCTTTTAG
CM009681	TGAGAAGAACCGCACGAGTTTTA	GGGTGTGAACATGTAAATTCGGGTT
CM009681	AAAAATTGTCATTCTCTGTCCGTGTTC	ACATTGATTAGTCTGACTTCAGAGTGTCTC
CM009681	TGGCACTGCCTTTTAAAGGTCAA	CCCAATCTCAAGAGTCCGTATGGTG
CM009681	GTGTGGGTTTTCTCACTCCTCAA	TTAGGAGTTTTGCTTCTCTTTTGTGTGTTTT
CM009681	CTCGTTCCTCCTATCTCCTTTGCC	GGAGGTAAGGTCACCGCAATATATCT
CM009681	GGTGCAATATGCTAGGAGGACATT	ATTACGTAAGGTCAGTACACTACCAT
CM009681	CAACCATTCGAATTGTCTTTACTAGGAGAG	GGGTTTTCTACAGTAATGTGACTAGAATAG
CM009682	CATGTGGGTGCCTACAGTGAATG	CCGAGTTAGTAGGTATACAGGGAAC
CM009682	TGCAAAATTGATTTTATGCCACACGATT	TATTGAGGAGGTTACATACATCATCGTCTA
CM009682	TTCAAGGCTTCAAGCAGTGTTTGG	GGGTAATCGGTGGTTATGACATAGGT
CM009682	GAAAGCTGAAAACAGATGTACAAGGACT	CTATGATTTTACACACAGCGTTCTGTG
CM009682	AACGAAATAAACCGCTCTACTTTGCC	TAGAAGTGGTCAAACCTACTAGAGTCA
CM009682	CACAAAAATATGAAAATCACTTCCCGGATAT	CGGATTGTTTATGCAGTTTCCGTGAA
CM009682	TGAGTGAGTTTGTCAAGAAGGCTG	GGGATGGTGTTAGCTCCAAGAACC
CM009682	AGAGAAAGCAAGTGATTAGATTACCTAAA	CCAATACTCGAAACCAACACGTTTTC
CM009682	TGCGTGAAGATTTTCCAGATTGTCTC	TTGGTTATGTATACTTTACCCGTTAACAAAA
CM009682	GAGAAAGGACCTCTGACGTTGATT	TTGTTGCAAAGTTATATAACACGTCTTGAGG
CM009682	AAAATAGTAAGTGTCTATTTTAAGAGTTCAGGTA	AGGGTTACATTTCTTTAAATACACCTGATTCAT
CM009682	TCAGAAACTCTACATTGAATGCATTTCCAC	AAGACATACGAAGTCCTGACAATTGGA
CM009682	GCAGTAACATTTGAAGACCTTAAGCAG	AGATCCAACACCAAGCCTAGAGAG