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| **Gene wide primers** | | | | |
| Name primer | Sequence | Size product | Annealing temperature | Gene origin |
| TRE\_Cyp19a\_FW1 | GGAAGTCGTGCATGTTCAAAG | 649 | 60 | HQ449733.1 |
| TRE\_Cyp19a\_RV1 | TGGTCTGTCTGCTGCTGGT | 649 | 60 | HQ449733.1 |
| TRE\_Cyp19a\_FW2 | TGAAAGGAAGTCGTGCATGTT | 654 | 60 | HQ449733.1 |
| TRE\_Cyp19a\_RV2 | TGGTCTGTCTGCTGCTGGT | 654 | 60 | HQ449733.1 |
| TRE\_Cyp19a\_FW3 | CGTGCATGTTCAAAGTCAAATC | 643 | 60 | HQ449733.1 |
| TRE\_Cyp19a\_RV3 | TGGTCTGTCTGCTGCTGGT | 643 | 60 | HQ449733.1 |
| TRE\_Cyp19a\_FW4 | ATACTGCATTTCCGGTTCCA | 610 | 60 | HQ449733.1 |
| TRE\_Cyp19a\_RV4 | TGGTCTGTCTGCTGCTGGT | 610 | 60 | HQ449733.1 |
| TRE\_Cyp19a\_FW5 | TACTGCATTTCCGGTTCCA | 609 | 60 | HQ449733.1 |
| TRE\_Cyp19a\_RV5 | TGGTCTGTCTGCTGCTGGT | 609 | 60 | HQ449733.1 |

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| **Y-only primers** | | | | |
| Name primer | Sequence | Size product | Annealing temperature | Gene origin |
| FW1\_631\_524 | TCAGTGGTGAAGTTGATGTGGTC | 111 | 60.74 | HQ449733.1 |
| RV1\_631\_524 | TGTGTTGTGCTTCAGTCAGGAG | 111 | 60.74 | HQ449733.1 |
| FW2\_631\_524 | TGTGGTCAAGCTTCTCCGC | 98 | 60.30 | HQ449733.1 |
| RV2\_631\_524 | GTGTGTGTTGTGCTTCAGTCAG | 98 | 60.22 | HQ449733.1 |
| FW3\_631\_524 | GTGAAGTTGATGTGGTCCAGCT | 103 | 60.81 | HQ449733.1 |
| RV3\_631\_524 | TGTTGTGCTTCAGTCAGGAGC | 103 | 60.81 | HQ449733.1 |
| FW4\_631\_524 | GTTGATGTGGTCCAGCTTCTCC | 102 | 61.20 | HQ449733.1 |
| RV4\_631\_524 | TGTGTGTTGTGCTTCAGTCAGG | 102 | 61.26 | HQ449733.1 |
| FW1\_1494\_1333 | AGACTGTGCAGCTGGTCCA | 76 | 61.14 | HQ449733.1 |
| RV1\_1494\_1333 | CAGGTCCAGGTCTGCAGAAC | 76 | 60.32 | HQ449733.1 |
| FW2\_1494\_1333 | TGTCCTCTCACCGTCCACAG | 113 | 61.18 | HQ449733.1 |
| RV2\_1494\_1333 | TGGACCAGCTGCACAGTCT | 113 | 61.14 | HQ449733.1 |
| FW1\_412\_241 | GGTGTCGATCTCCTCCAGCA | 104 | 61.32 | NM\_001105093.2 &  AY273211.1 |
| RV1\_412\_241 | TGATCGCGGCTCCAGTAACT | 104 | 61.32 | NM\_001105093.2 &  AY273211.1 |
| FW2\_412\_241 | GTCGATCTCCTCCAGCAGCT | 79 | 61.39 | NM\_001105093.2 &  AY273211.1 |
| RV2\_412\_241 | GTCCATCAGCCTCTTCTTCATGC | 79 | 61.54 | NM\_001105093.2 &  AY273211.1 |
| FW1\_1810\_1560 | CAGGTTGTTGGTCTGCAGGA | 83 | 60.18 | NM\_001105093.2 &  AY273211.1 |
| RV1\_1810\_1560 | TCCTGGTGACGCTGCTTTC | 83 | 60.30 | NM\_001105093.2 &  AY273211.1 |
| FW2\_1810\_1560 | GTCGGCTCAGGAAGGTCATG | 84 | 60.46 | NM\_001105093.2 &  AY273211.1 |
| RV2\_1810\_1560 | AGACCAACAACCTGTGGCAG | 84 | 60.47 | NM\_001105093.2 &  AY273211.1 |
| FW3\_1810\_1560 | CAGTTTCCTCTATGTCGGCTCAG | 100 | 60.74 | NM\_001105093.2 &  AY273211.1 |
| RV3\_1810\_1560 | TGCAGACCAACAACCTGTGG | 100 | 60.75 | NM\_001105093.2 &  AY273211.1 |
| FW4\_1810\_1560 | TTCCAGTTTCCTCTATGTCGGC | 106 | 60.09 | NM\_001105093.2 &  AY273211.1 |
| RV4\_1810\_1560 | TCCTGCAGACCAACAACCTG | 106 | 60.18 | NM\_001105093.2 &  AY273211.1 |
| FW1\_2359\_2127 | ACTGAATTCGTTGGGTTTGCAGA | 78 | 61.25 | AY273211.1 |
| RV1\_2359\_2127 | CCAAGAGGCACAAACATCATCCT | 78 | 61.13 | AY273211.1 |
| FW1\_2010\_1857 | AGCGTCTCCTCTCCGTTGATC | 117 | 61.62 | AY273211.1 |
| RV1\_2010\_1857 | GGGGCCTCTTCTCTCCTACATG | 117 | 61.61 | AY273211.1 |
| FW2\_2010\_1857 | ATCCAAACTCTCACCATGTCTCC | 100 | 60.05 | AY273211.1 |
| RV2\_2010\_1857 | TGGGGCCTCTTCTCTCCTAC | 100 | 60.03 | AY273211.1 |

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| **HRM primers** | | | | |
| Name primer | Sequence | Size product | Annealing temperature | Gene origin |
| FW1\_2359\_2127 | GATGATGTTTGTGCCTCTTGGG | 195 | 59.83 | AY273211.1 |
| RV1\_2359\_2127 | ACTGACAGGTTGGTTCCTCT | 195 | 58.19 | AY273211.1 |
| FW2\_2359\_2127 | GGATGATGTTTGTGCCTCTTGG | 196 | 59.83 | AY273211.1 |
| RV2\_2359\_2127 | ACTGACAGGTTGGTTCCTCT | 196 | 58.19 | AY273211.1 |
| FW3\_2359\_2127 | TGAGGATGATGTTTGTGCCTCT | 199 | 59.69 | AY273211.1 |
| RV3\_2359\_2127 | ACTGACAGGTTGGTTCCTCT | 199 | 58.19 | AY273211.1 |
| FW4\_2359\_2127 | GATGATGTTTGTGCCTCTTGGG | 195 | 59.83 | AY273211.1 |
| RV4\_2359\_2127 | ACTGACAGGTTGGTTCCTCTTC | 195 | 59.90 | AY273211.1 |
| FW5\_2359\_2127 | GGATGATGTTTGTGCCTCTTGG | 196 | 59.83 | AY273211.1 |
| RV5\_2359\_2127 | ACTGACAGGTTGGTTCCTCTTC | 196 | 59.90 | AY273211.1 |
| FW1\_1211\_1125 | TGCTGAAATGGCTCCTACAACA | 195 | 60.22 | HQ449733.1 |
| RV1\_1211\_1125 | GTGTGTGAACTGTGTGTGTGT | 195 | 59.20 | HQ449733.1 |
| FW2\_1211\_1125 | TGCTGAAATGGCTCCTACAAC | 195 | 58.56 | HQ449733.1 |
| RV2\_1211\_1125 | GTGTGTGAACTGTGTGTGTGT | 195 | 59.20 | HQ449733.1 |
| FW3\_1211\_1125 | TGCTGAAATGGCTCCTACAACA | 196 | 60.22 | HQ449733.1 |
| RV3\_1211\_1125 | AGTGTGTGAACTGTGTGTGTG | 196 | 58.92 | HQ449733.1 |
| FW4\_1211\_1125 | TGCTGAAATGGCTCCTACAACA | 197 | 60.22 | HQ449733.1 |
| RV4\_1211\_1125 | GAGTGTGTGAACTGTGTGTGTG | 197 | 59.91 | HQ449733.1 |
| FW5\_1211\_1125 | GCTGAAATGGCTCCTACAACA | 195 | 58.56 | HQ449733.1 |
| RV5\_1211\_1125 | AGTGTGTGAACTGTGTGTGTG | 195 | 58.92 | HQ449733.1 |
| FW1\_13047900\_13048000 | CAAGGGTTGGGTCTTCTCGG | 100 | 60.32 | No gene |
| RV1\_13047900\_13048000 | CCAGGCTGCTTCATCCTCTT | 100 | 59.74 | No gene |
| FW2\_13047900\_13048000 | ACAAGGGTTGGGTCTTCTCG | 101 | 59.60 | No gene |
| RV2\_13047900\_13048000 | CCAGGCTGCTTCATCCTCTT | 101 | 59.74 | No gene |
| FW3\_13047900\_13048000 | TTCTCGGACCCTGGACTGTA | 87 | 59.59 | No gene |
| RV3\_13047900\_13048000 | CCAGGCTGCTTCATCCTCTT | 87 | 59.74 | No gene |
| FW4\_13047900\_13048000 | AAGGGTTGGGTCTTCTCGGA | 99 | 60.47 | No gene |
| RV4\_13047900\_13048000 | CCAGGCTGCTTCATCCTCTT | 99 | 59.74 | No gene |
| FW5\_13047900\_13048000 | CAAGGGTTGGGTCTTCTCGG | 102 | 60.32 | No gene |
| RV5\_13047900\_13048000 | GTCCAGGCTGCTTCATCCTC | 102 | 60.46 | No gene |