

S5 Table. qPCR primers.

| pID (JGI) ^a | gene | Name | Sequence (5' - 3') | source |
|------------------------|----------------|-----------------|--------------------------|------------|
| 240086 | <i>chs1</i> | Ta_chs1_qRTs | CGAGGCGAGAGATGGGTTTT | this study |
| | | Ta_chs1_qRTa | GAGTAGACGGCAGCGAAGAA | this study |
| 323101 | <i>chs2</i> | Ta_chs2_qRTs | GAAGTCTCCGTCTTCAGCGT | this study |
| | | Ta_chs2_qRTa | CAGATCAGCACGACACCAGT | this study |
| 143107 | <i>chs3</i> | Ta_chs3_qRTs | CCTGGCTCCCTCAAGGATG | this study |
| | | Ta_chs3_qRTa | ACCAAGAAACGACCAGACCG | this study |
| 248556 | <i>chs4</i> | Ta_chs4_qRTs | TGTTCTCGTCATCGTCACCG | this study |
| | | Ta_chs4_qRTa | GTTCCAAACGGGGAGAGACA | this study |
| 142365 | <i>chs5</i> | Ta_chs5_qRTs | ACCAAGAAGGGTGTGAAGCA | this study |
| | | Ta_chs5_qRTa | CCTCAGTGGCGCTGTTGATA | this study |
| 91144 | <i>chs6</i> | Ta_chs6_qRTs | GTAGAGTCAGGCTGCGGATC | this study |
| | | Ta_chs6_qRTa | CAAACAGGTCTTCGCACTGC | this study |
| 154895 | <i>chs7</i> | Ta_chs7_qRTs | GGTATCTGCGGTGAGACCAG | this study |
| | | Ta_chs7_qRTa | GGTAAAACATCCGGGCAAAC | this study |
| 161127 | <i>chs8</i> | Ta_chs8_qRTs | ACTCGGAAGACAGCATCCAC | this study |
| | | Ta_chs8_qRTa | CAATGGTGTATGCCTTGCGG | this study |
| 28913 | <i>cda1</i> | Ta_cda1_qRTs | AACTGGTTGCGACTCGGAAT | this study |
| | | Ta_cda1_qRTa | GTAGCTGAGAAACGGTCCCC | this study |
| 147996 | <i>cda2</i> | Ta_cda2_qRTs | ACGCCACCTTCTTCGTCATT | this study |
| | | Ta_cda2_qRTa | CTCCAGCTCGTCATTGCTCA | this study |
| 78914 | <i>cda3</i> | Ta_cda3_qRTs | CAGAAAGGGCCGCAATTACG | this study |
| | | Ta_cda3_qRTa | TCCGCAATCCAGAGAATCCG | this study |
| 291124 | <i>cda4</i> | Ta_cda4_qRTs | ACTCACATGAGAACCAGCG | this study |
| | | Ta_cda4_qRTa | CGACACTCCCTTTTGGTGGT | this study |
| 292288 | <i>cda5</i> | Ta_cda5_qRTs | TTTGGGCACTCGGAATCACA | this study |
| | | Ta_cda5_qRTa | TGAAAGGTTGGAGGCGGAAA | this study |
| 142446 | <i>cda6</i> | Ta_cda6_qRTs | GGTACTTGGATGACCTGCCG | this study |
| | | Ta_cda6_qRTa | GCCCGATACATCTGGGTGAA | this study |
| 54365 | <i>cho1</i> | Ta_cho1_qRTs | GCATTTGGGGTGACACCAAC | this study |
| | | Ta_cho1_qRTa | TTATCGCCGCTCAGACCATC | this study |
| 80199 | <i>cho2</i> | Ta_cho2_qRTs | GCATTGATGACTTGGACGCC | this study |
| | | Ta_cho2_qRTa | CAGCCATGACACTCAAGGGT | this study |
| 145108 | <i>cho3</i> | Ta_cho3_qRTs | CGATACCAACACAGAGCCGA | this study |
| | | Ta_cho3_qRTa | CGTCGCCAAGGAAACCAATG | this study |
| 197013 | <i>cho4</i> | Ta_cho4_qRTs | GGAGAGGCTTTCCTGGCATT | this study |
| | | Ta_cho4_qRTa | CAGGCTGGTAACGGGTTGAT | this study |
| 216890 | <i>cho5</i> | Ta_cho5_qRTs | CGTGACCTTTGAGCCAGAGT | this study |
| | | Ta_cho5_qRTa | GAGAGCATCAGAGACCTCGC | this study |
| 16857 | <i>cho6</i> | Ta_cho6_qRTs | CTGGGGAGATACCAATGGCG | this study |
| | | Ta_cho6_qRTa | ATGCCGTTACCAAAGCAAGC | this study |
| 154960 | <i>crh1a</i> | Ta_crh1a_qRTs | GGCTACACCGATTTCTCCAA | this study |
| | | Ta_crh1a_qRTa | CTCGACCTTGATGCTCTGC | this study |
| 311401 | <i>crh1b</i> | Ta_crh1b_qRTs | GCACGCCTGATAGCTCCCCG | this study |
| | | Ta_crh1b_qRTa | CACAACCATCAGCAGCGACG | this study |
| 299218 | <i>crh2</i> | Ta_crh2_qRTs | CGTCTGCCAAGGGTTCCGC | this study |
| | | Ta_crh2_qRTa | TGTTGCTACCACTGTCTGCTGC | this study |
| 136120 | <i>nag1</i> | Ta_nag1_qRTs | ACTGTCGTTCAATCGTGGCT | this study |
| | | Ta_nag1_qRTa | GTTGAAAGAGTCGCCGTTGG | this study |
| 131598 | <i>chi18-5</i> | Ta_chi18-5_qRTs | TGGATCTGGAAGCTGGGAGA | this study |
| | | Ta_chi18-5_qRTa | AGCTGTAGTATGCCTGTGCG | this study |
| 302419 | <i>prb1</i> | Ta_prb1_qRTs | TCCAACACTGCTACCAACACAATC | this study |
| | | Ta_prb1_qRTa | TTTCACTTCATCCTTCGCTCCA | [2] |

| | | | | |
|--------|-------------|--------------|----------------------|------------|
| 300828 | <i>tef1</i> | Ta_tef1_qRTs | GTGCGGTGGTATTGACAAGC | this study |
| | | Ta_tef1_qRTa | ACTTCCAGAGGGCAATGTCG | this study |
| 301975 | <i>sar1</i> | Ta_sar1_qRTs | GCCGTTTCTGAGGATGAGCT | this study |
| | | Ta_sar1_qRTa | CTGATACCGTCACCGTAGCC | this study |

^a<https://genome.jgi.doe.gov/Triat2/Triat2.home.html>, qRT-PCR primers used in this study.