

Table 1. PCR primers used in this study

| PCR primer | Designed from | Annealing site | Sequences (5'→3') |
|------------|---------------|-----------------|------------------------|
| 8F | Region 8 | 84672-84653 | AGGGGAGTCATTCTGTCATC |
| 8M | | 84303-84322 | CACTGAAGGCCAAAGGAAGA |
| 8R | | 84023-84042 | AAGTGATCCAACCCACGAGG |
| 9F | Region 9 | 170821-170840 | TTGCGGACCTATACATCCTC |
| 9M | | 171030-171011 | TTTCTGCATCGTTGTAACAG |
| 9R | | 171193-171174 | CCAAAGACTCTGACAACACTAG |
| 10F | Region 10 | 1452462-1452481 | AAGCGGTTAGCAGAAGTGAG |
| 10M | | 1452751-1452732 | ACCTCATTCTCAAATAGGTG |
| 10R | | 1453111-1453092 | TTGAGCCTTTGTCCATCCGA |
| 11F | Region 11 | 4932398-4932417 | ACTCGCCTGTGGTGGGACAC |
| 11M | | 4932697-4932678 | ACGATGCGAAAAGATTGCA |
| 11R | | 4932997-4932978 | GCTGGATGCCGTCATTACTC |
| 12F | Region 12 | 4934778-4934797 | CAGCACAATTCGTCAGGAAT |
| 12M | | 4935027-4935008 | CCCCCTGCATCCAGTGCGAA |
| 12R | | 4935317-4935298 | TAACGCACGAAAGCCTACAT |
| 13F | Region 13 | 5209071-5209090 | GTTACCCGCTGATGTAACGA |
| 13M | | 5209240-5209221 | GTAGAAATATTTGCACAGAT |
| 13R | | 5209453-5209434 | AATAGATCATACTCAGCAAG |
| 14F | Region 14 | 5211311-5211330 | AGTTTGTTCGTGCTGTAGA |
| 14M | | 5211520-5211501 | GCAAGGAGGATAGATAAATG |
| 14R | | 5211657-5211638 | CCGAAAGGCTGTTTGATGC |
| 15F | Region 15 | 454833-454852 | GTTGAACATATGTCGTGGAAG |
| 15M | | 455132-455113 | GGGCATGCTTCCTTATCCTG |
| 15R | | 456922-456903 | GTGTTACACGTACGGCAAAA |
| 16F | Region 16 | 655301-655320 | AGTTTGAGAATAGTCAGGGA |
| 16M | | 655510-655491 | TAGGATCAAGAGGGTAAACA |
| 16R | | 655766-655747 | TTCTCATAAGTCTCTAAAGA |
| 17-F1 | Region 17 | 1134241-1134260 | TTGTGTTGCCTGTACATTAT |
| 17-F2 | | 1140031-140050 | ACGGGCACTATACAAACCAG |
| 17-F3 | | 1145241-1145260 | ACTTCTATCGGAGCATCTTC |
| 17-F4 | | 1147751-1147770 | GAGAATACATCCTTCAACCG |
| 17-R1 | | 1148710-1148691 | GCTGGGTAGCCTGTACCTCT |
| 17-R2 | | 1145860-1145841 | TACAACACGGTTTGTCTGTC |

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| 17-R3 | | 1140720-1140701 | TTCATGCTCAAGCAGATCT |
| 17-R4 | | 1135270-1135251 | CAGAATTCGGGATGGGATAC |
| 18F | Region 18 | 2226571-2226590 | ATCCCTTTGGAATGGATATA |
| 18M | | 2226780-2226761 | AGTTGCCAATCTTATTTTCGC |
| 18R | | 2227053-2227034 | GTTATATTCTGCGCAAAGC |
| 19F | Region 19 | 2720631-2720650 | CCCGCCTTTCATCGAACTTC |
| 19M | | 2720900-2720881 | CACTGATTGTCAAACGCCA |
| 19R | | 2722330-2722311 | GTTTTGCAAGCCGGCTGTTA |
| 20F | Region 20 | 3515001-3515020 | CCGGCTGCATCCAGACCTTC |
| 20M | | 3515340-3515321 | CACCACATGACAAGAGCAAC |
| 20R | | 3515890-3515871 | CAAATGCTTCTGATCGCCA |
| 21F | Region 21 | 3932301-3932320 | AAGTCTTCATAAGCTTTCTG |
| 21M | | 3932600-3932581 | AATCTAAACAGCCTTCTATT |
| 21R | | 3933000-3932981 | CAATCTTCCGGAAGGCATT |
| 22F | Region 22 | 4312241-4312260 | TGCATAGTTCTGTCTGGGAT |
| 22M | | 4312590-4312571 | TGACTCTAAAAGTTCCTTTC |
| 22R | | 4312888-4312869 | GCTACCAAAGATATACCGTA |
| 23F | Region 23 | 5090741-5090760 | AATCAGCCCATTGGCAAAT |
| 23M | | 5090920-5090901 | AGAGGCGAATCCGTATTCCA |
| 23R | | 5091371-5091352 | TTACTTTGTCATAGGCATTT |
| 24F | Region 24 | 5113098-5113117 | ACAGAACCGGATAGAAAACC |
| 24M | | 5113507-5113488 | TTCTCTGAGGCGGCACGTT |
| 24R | | 5113967-5113948 | TTCTCGAAACCGGATTAGGT |
| 25F | Region 25 | 4606751-4606770 | TGTGCTCCGAACAAGCACTC |
| 25M | | 4607020-4607001 | TTGAAAGATGGGAAAGGGTT |
| 25R | | 4607248-4607229 | TGAGGTAAACCGGATGAATA |
| 26F | Region 26 | 3407981-3408000 | ACCCAGGAGTTCGTCAAGAG |
| 26M | | 3408230-3408211 | TTATTGTCATCATCGGATGT |
| 26R | | 3408532-3408513 | CGGACAAACAGGAAGATACT |
| 27F | Region 27 | 4882601-4882620 | CCACTAAGAGCGCAGCTACG |
| 27M | | 4882800-4882781 | CAAAACGCCATTTGCATCCT |
| 27R | | 4883233-4883214 | GGAAGTGCACCCGGGTATTA |
| 28F | Region 28 | 3178132-3178151 | TATGTGGCACGCCACAGTTG |
| 28M | | 3178581-3178562 | TTGTAAACTCCTGTTGAGT |
| 28R | | 3178901-3178882 | GACAGAAAGGTGCCATTCAA |

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|------------|---------------|-----------------|--------------------------------|
| 29F | Region 29 | 3883670-3883651 | CTGAGTTTGCAGAGCTTCTG |
| 29M | | 3883411-3883430 | AGTTGAGATAATAGTCGCAT |
| 29R | | 3883051-3883070 | AGCACTCTGTCTGCTAATGG |
| J1 | Region 30 | 780501-780520 | TGACGGAGATATCTCCACTC |
| J2 | | 780950-780931 | ATGCTGTTATTGACTTGCCT |
| K1 | | 783041-783060 | TGGGAGATCGATATAGGGAT |
| K2 | | 783380-783361 | TTTCCGTTGTAATACTCGAT |
| L1 | | 787801-787820 | CTACCATTGGGAAAGGAATA |
| L2 | | 788320-788301 | GTCCCTGAAGCATCTGATCA |
| A1 | Region 31 | 1981801-1981829 | TATCACGGATTTGTTGGGTAAGTGGACCG |
| 1F | | 1983483-1983506 | GTGCCACTGCTATTTATGGTGCTC |
| 1R | | 1986477-1986451 | GGATCACTATAAGACATAGATGTACCC |
| 2F | | 1996859-1996888 | CGCCAAGCAACGCTTCTATTTCTGTCTGAG |
| 2R | | 1992031-1992004 | ACCGAAATAGTTACCGGATGTGACTACC |
| 3F | | 2003649-2003676 | CGAAGCATCACGATGGATTTGCCTTGTG |
| 3R | | 2000652-2000625 | AAGATTACTTCATCCACTTGATTCCCTG |
| 4F | | 2012948-2012975 | GTCACCTTTTTTCATAGAAACGTGAACTG |
| 4R | | 2007073-2007046 | TATAGCATCGGACTCCATATAGCGGAGC |
| A2 | | 2017881-2017856 | GTCACCTTAAACCAATCAGTGACAGC |
| PS-7-F | PS-7 | 3200380-3200404 | ATGATAATCTGCAAGTTAAGTGACC |
| PS-7-R | PS-7 | 3326696-3326272 | CTAATGCGTTTCTGAAGTGTACGGA |
| CTn3-F | CTnYCH46-3 | 3325914-3325938 | ATGTCGCTTCAACAGGTGGCATGGC |
| CTn3-R | CTnYCH46-3 | 3201264-3201240 | ACCACTTGTCAACTCTATGATACGC |