Supplementary Table S1: list of primers for MATE gene expression analysis.

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| GENE ID | Forward (5'→3') | Reverse (5'→3') |
| GaMATE1 | GTTTAGAATGGTGGTGGTA | AACTGAGTGAAGAAGGGAG |
| GaMATE2 | GATCGTTGGTCTTTCCTC | ACATTGTAGCCCATTTTT |
| GaMATE4 | CTACATCTTAGAGGAAAGGGAC | TTGCCAATTTGTGAAACC |
| GaMATE5 | ACATTAGGTTTCCTGCTTC | TTCTTTATCCTCTCCCCCG |
| GaMATE11 | GTGAGGTTGAGCTTGCCA | CCCACATAGAGTTTCGGT |
| GaMATE14 | ATGTTAGGAATGGGAAGTG | CATGATCGTTGGAGGTAGA |
| GaMATE18 | CCCATAGCCGCCTACCAG | TAAACAGAGGAGCCCAAA |
| GaMATE21 | CTCTCAAGCTCTCCATCC | TTGCCAACCACATCCTCT |
| GaMATE23 | GATGTAGAAGAAGCGAAGAC | CCAAGGTGACCAGCAA |
| GaMATE24 | CAATACCAGAGGGAATAGG | CAAGGCGGTGAAGACA |
| GaMATE33 | TTATGGACCGAGACAAGGA | CAAGATGACCAACAAAGGC |
| GaMATE38 | GCCGTCTTTTAGGCTTTA | CTTGTCTTCCCATTTGTC |
| GaMATE41 | CCTCAACGGAGTTCAGCC | GACAAAGTAATAGCAGCCCAC |
| GaMATE44 | ACTTGCTGATGGGAATGTC | TAAGGGAATGGTAATGAGTG |
| GaMATE48 | TCATTTTGCTATCCCTTC | ATCCACCACTTCCTTCTC |
| GaMATE51 | GCGACGCAGAAATCC | TTATGTTGGCTCCGATG |
| GaMATE53 | TTGATTCAGATAACGCCA | TCACCCCTATGAGAGGAC |
| GaMATE54 | AACAAGGGTAGGGAACGA | GAAGCCGCAATGAAGG |
| GaMATE57 | CTGTGTCTCCGCCCGTGT | CAGCCCATTTTTCCCTAA |
| GaMATE59 | TCTATGTCGGAGTCGGATTT | GGCCCTCTTGGCTTGTA |
| GaMATE61 | ACGATGTGGCGGAGAT | TGTAATGGGAACTGAAACG |
| GaMATE63 | AAATCCCAATCCCCTATC | AAACCCATCCCTTAACCT |
| GaMATE64 | CCACCATTGCCACACCTC | GCACAACGAAAACCCACC |
| GaMATE66 | TGACGCCTCAAAATCCTA | TTGCTAATCCCTCTCCCT |
| GrMATE1 | TCCTTCCACCGCAGCAA | GCCGAAAGTAAGCCCAAC |
| GrMATE2 | TACATCTTAGAGGAAAGGGAC | TTGCCAATTTGTGAAACC |
| GrMATE3 | GGTGGTTGGGTCTGGTG | TCTCCCTCGCCTTGATT |
| GrMATE5 | GCTGAATCCCTCTTGTCG | CTTAGCCTCTTCCATGTCC |
| GrMATE6 | CTGCCGATACTGTTCCAC | GACTCAGACCCAAACTCCT |
| GrMATE8 | GAGATGGGTTTAAGATAGATGA | CAAGTGAAGCAATGGGAT |
| GrMATE9 | GATAGGACTTTCGGCATTG | TTGCGGGCAGTTTCC |
| GrMATE10 | AACTGGAATGAGGGAGGAT | AAGGCAGGTGGTAAGACAA |
| GrMATE12 | GAGCCTGTTGGGAGTGC | CCAAGGCAGCAGGAAAT |
| GrMATE13 | CCCAACAGAACAAAGACAA | TTAGTACCATCGGGAAAGC |
| GrMATE14 | ACTGCCCTCTGTCTCCTT | TCCCGATGAACCAATAAC |
| GrMATE15 | CAGTTGCCTTCTTCCTTT | TAACCTGCCACTATTGCT |
| GrMATE16 | GCAGCTAATGTGAACCTCG | ACAGTAAACCCAACCAAAGAC |
| GrMATE18 | CCTCAACGGAGTTCAGCC | GACAAAGTAATAGCAGCCCAC |
| GrMATE19 | CTTCAGAAACCATTATCCCTAC | GCCATCCAGCTCCAACC |
| GrMATE20 | GCCGTGACATCTTCGTTT | AGAGGGCTAAGAGTGGAGTG |
| GrMATE21 | AGGCTACTTGTATTCATTGGT | GGCAAAGAGTGATGGGAT |
| GrMATE22 | ATGGAGCACAACAATACCG | CATAGGACCGACAGAGGG |
| GrMATE23 | TTATTGTCGGATGGGTTG | TGCCATAGCCTAAGAAGC |
| GrMATE24 | CGAAGGCTCGAACGCTGCTA | TTGGGAAACAACCAAGGAACTGA |
| GrMATE25 | TCTCAAACCGCACAGTCA | GCCGTTCCAATAATCCC |
| GrMATE26 | CGCATTCGCCATAAGTT | AACGGCAAGCCAAGTAA |
| GrMATE27 | CCTTGTCGGTATGCCAGTG | AGCCTCAAAGTCCCAGTC |
| GrMATE28 | TAGGAGTGATGGGACTTTGG | TGCGTTCCGTTGTTTGT |
| GrMATE29 | TTTTGTGGGAGTTGAATGG | TGTAAATCACTTTGGGAGC |
| GrMATE30 | TATCACCCTTTCAGCATCA | AGAAGTCGCCAACCAGA |
| GrMATE31 | GGTGGTGGTATGAGATAGTGAC | CACAGCCAGCAAGAGCC |
| GrMATE32 | GGGACTATGGGCTGGGCTAC | TCCTGCGGCAAGGGTGA |
| GrMATE33 | CTCCACTTCTAACCGTCAC | TCTTCTGCCACCCACA |
| GrMATE34 | GCCCAAAGTAGGAGCCA | GCAGCCATTAGTCCAAGC |
| GrMATE35 | CCAAACCCTTCAACGC | GTAGAGGCAACTGAGGAGAT |
| GrMATE36 | TTGATGGGATGGGTCTTC | CACCGCATTGTAATAAACG |
| GrMATE37 | GGCAGGGCATCACCACA | CCGAGAAGCCGAAGGA |
| GrMATE38 | TATGGCGACGGTATCAG | GCTTCCGCAATCTCCTC |
| GrMATE39 | AGCATTTGGAGCAGGAC | TTTGAAGATGGGTGAAGC |
| GrMATE40 | GGGTTTCCTTCAATGTTAG | ATGCTGCAAGCTGTCG |
| GrMATE41 | AGGGAAGCGAGGAGATG | GAAGGTATTGCGAGACTGC |
| GrMATE42 | GTCAATGTCTTGGGCTGTG | AGTGAAGGCTCTAAAGGATAA |
| GrMATE44 | GTGCCAGTTTACATCTTCC | ACCCTTTAGAGGCGTTG |
| GrMATE45 | ACTTGCTGATGGGAATGTC | ATGGCTCGTTGGGTGT |
| GrMATE46 | TGGTGGCGGTGCTTGT | AGGGCGATGGATGTGAG |
| GrMATE47 | AGTCGGCGGCATTCA | CCACCGTCTCACCTTCC |
| GrMATE48 | GATCGTCTCCCTCGTTTG | GATTTCGGTATCGTTGGTG |
| GrMATE49 | GTCCTGTTCGGATGGC | TTGCCTCTATTTCCCATT |
| GrMATE51 | GGTGGCAGTCCATTTCT | CAGTGACAGCACCGAAG |
| GrMATE52 | TCTGTGGGAGTTGAATGG | AGAGTTCCAAGAGTGGCTAT |
| GrMATE53 | CATACATGATTACTTACGGACTTAG | GGCGGTCTTTGCCTTC |
| GrMATE54 | TACTTACGGGCTTAGTGCTG | GCGGTCTTTGCCTTCC |
| GrMATE55 | TGGTCGGGATTGTCGT | CAAACTATTGTCGCAGAAGG |
| GrMATE56 | ACTCACGGACTTAGTGCTGC | GCGGTCTTTGCCTTCC |
| GrMATE57 | ATGGCTGGTGGATTGG | AGATGAGCGAAATGATGG |
| GrMATE58 | GCGACGCAGAAATCC | TGGCTCCGATGGTTG |
| GrMATE59 | GGACGATGTGGCGGAGAT | CCTAAGGCAACAAACGAGA |
| GrMATE60 | GGTCGGACTCGGATTCTAT | CCCTCTTGGCTTGTAGGTC |
| GrMATE61 | CCCAAATCGGCAGCAT | CTCACCTTCCGTAAATACATAG |
| GrMATE62 | CTTCAACCGCCTCGCCTCT | GCCGACGATGACATTATTTGC |
| GrMATE63 | TTACTTGGTTGCCTTCATTC | TTATGCCTTGGGCTCTTA |
| GrMATE64 | TAATGTTACTGCTGGCTTCG | TCAGGGTCTTGATTGATGC |
| GrMATE65 | CTTATCGGACGAACTCTTT | GCCATAGGCAGTGAACC |
| GrMATE66 | ACTTTGTATCGGATTCGTG | ACTTCTTCGCTGCTGGT |
| GrMATE67 | ACCGTTGCTCATTGTTTC | TCACCAATACTGCCAAGC |
| GrMATE69 | CTTGGTTGGCAGCACA | CCATAGACCCTTAGCATACAG |
| GrMATE70 | AATGGCAAGTGCGTTAGA | GGAATGCTGGCTGTTAGT |