

Supplementary Fig. 1. All analyzed gene sequences and amino acid sequences

MoJMJ1(MGG_04878)

MAPGNLNAGAGGGPASANASSRASPATNNNSNPKASMHGMPVNSNGYHPPKGQQLPLSSMTSPPLDLDVVERRGQPTAAREPL
KRRERLNGVEEAPTYPTAEFEKPEMAYMRKIAPEARKEYGICKIVPPDTWNPPFAIDTQKFHFRTRKQELNSVEGSTRVNMNYV
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181 ACGAGCCCC CACTCGACTT GGACTIONGTA GAGAGACGAG GGCAGCCAC AGCTGCCCCG
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781 CAACTGGAGC TTGAATACGG CGGACCATG ACACCAAGCC CAGCTCCTAG TCCGATGAAA
841 AAGTCAAATA TTAATACACC CGCCAGTGCA AGGCTGGAT CGCCGACGAG ACAAGCATCA
901 GATGCGCTAC AGGCAACAGT CAATGAAAA TCCACTACGA CCAAGGACAG TGTCAACTCG
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3601 CTCTTTAAGC AACGAGAAGC CCTCGGGCAG ATCCAGGACC TTAATGCAAG ATGCCGCAAT
3661 GCTGATCACA GGAAGCGGCC AATGTACGCT GAAGTGTGCG AAATCATGAA AAAGGTAGAA
3721 GAACTGCAGC ACAAGCCGAA CGGAACCCCG GAGCTCGAAA AGGAGCAGCG TCGACATGAG

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3901 AAACCCCGAG TTCCGGCTGA ACCAGCGTCG CGGGAGCCTA GCCCTGACGC GGAGCCTAAA
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4201 GAGATACCCG GCCTCCCCTT CCAACCGGAA GAGGAGGGTG TGCTCAAACA GATCATCGAT
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4621 GCAGTTTCAA CCACTGGGAC CAACACAACC AGTCTATCTC CGGCCATGCA AACACCTGGA
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MOJMJD2(MGG_09186)

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MoJMJD3(MGG_02032)

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1981 TATGCGGTCA GCGCGCAGA TATGCAGTCG GCCGAAATAG GCAGGCAGCA CATGAACAGA
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MOJMJD4(MGG_04401)

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MoJMJD5(MGG_01068)

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MOJMJD6(MGG_01543)

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MoJMJD7(MGG_09841)

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MoJMJD8(MGG_02045)

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FELGAINYLHYGQKIWFVTHPGFFDKATATFQEALNIDQDHSQFLRHEAVHGGVQYLRNKDIPTIGFMQEAQIVVVYPRAYHSG
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1 ATGGCAAACC TTAACAGCTT TCTTGATGAC GCGCCTGAAT CTATTCGCAG TAACAAAGAA
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121 CTGGAGGCTG AAATCAAGAA GCTCAAAGGT AGCCGGTCCA ACGAAGAGAA TCTTCGAAAG
181 CAAGCCAACG AGTGGAAAAGC CAAGTATGAA ACGTGCATA GAGCAGCCAC GATTCCAAAAG
241 TATGAGCATT CTGAGGATAA TGCCAAGCTT ATCGAGGAAA CCAGACAACA GCTGCTCAAG
301 CAGTACGATG AAGAGATTGG GCGTCGGGCC GAGAACGACC AACGGCAAGC ACAGCAGGTT
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421 CTCGAAAAGG CCAAAAACA AGATTTCAT CCCTCTGCAC CAAGTAAAGC GACGTCGGCC
481 AGTGGCAATG TTTACAACGA CCTTACTGGA TATAAACAA AGTCGTTGAC GGTCAGCAAC
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601 ATCCAGGGTA ATGCGCATGC ACACGCGGCG GTCAAGCTCG CTATATCAAC CCTTGATGCC
661 GAATTGCCCG AATCCTACAC AAAAAATTCG ATCGATGTCG AATCTTTGCA GTTGCCGAGG
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901 GTTATTGAGT ACGGAAAAAA TTTATCCATC ACTGGTAAAT CCCGGAAGCA CGCCGACATT
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1441 CCCAGCGTAT GCGGGGTGGC ATATCGGCAG GTTCTTGCC AGGGTGGCGA ATTTGTGCTG
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2281 TACCACTCGG GATTTGGTGC GACGGCGACA GTCGCTGAAG CCGTCAATTA TGCCGATCTG
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3121 TCATTGCGCA AACTTATCAA AACCCCTGCC AACGCCGATA CCATTGCAAA AGTCGGCGAA
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MoJMJD9(MGG_00445)

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1 ATGAAACCTG TTCCATGGCG TTATTTGATT CAAGGCTCTG CTCTTGACAT
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231 AAGTAATATC CTTACCAAAG GCGAAGATGA ATATTCTTGC CATCAACCGC TTTGGCAATG
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411 TATTCCTCGA GATGACATTG TTGATCATCA ACTTGGCGAA CAAGACATGC AGTTGGAAG
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MoJMJD10(MGG_03140)

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2018 TTACAGCCG CGTCAACTTC CCAGTGTACC GCAAAGGTTC TATACCTCGG CACTTGGCAG
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3398 CGGGCGCTTA A

MoJMJD11 (MGG_08136)

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349 ACGCCACCCT GTTCAGTCAT GTACATCGCG ATATTCCCTT TGCTCGCATT GCCCTCGACC
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649 GCAGCCTTGA ACTTCAACTT GACGATAGTG AAAGCGAAGA GGTCCCTTT GCCATTGGG
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769 TTACCCTTGA GCCTGGTGAT ATGCTGTACC TCCCGCCAT GTGGTATCAT AAAGTTTCGC
829 AGTCATGTGG CGAACAGGGT GTATGCGTGG CCGTAAACTA CTGGTATGAC ATGGATTCA
889 GCGGGCCGCT TTATCCAATG TCGTCCTTTG TCAGAGCGGT CCACATGCGA GATGAAGTAA
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