>SmMET1 genomic sequence

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361 TAGGGCAGCC ACCGGGACTT GCTCTCACTC TCAGTCGCCC ATTCTTGATT TTTCATCCTT

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781 AATTCTTTTC TTTTCTTTGT GACATTGAAT TGCAACCTTG ATGCTTCATT TCATTTCCGG

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>SmMET1 ORF sequence

1 ATGTTTGCTC CCATGGGTCA TGGCTTATCT TTCATTGAAG TCAAGCTACC ACCCGCCTTC

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>SmMET1 protein sequence

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301 VLTALKDESS KLVDFAEAQP VSLPGNLRIG PKIEDENKND LLAKPCLTEE DEDSKMARLL

361 QEEEDWRSMK QKKGRGSSSS SKYYIMINED EIANDYPLPA YYKMSNEETD EFIIFDSGID

421 VLHIEDLPRS MLHDWALYNS DARLVPLELL PLRPCDEIDV TIFGSGIMTA DDGSGYICDG

481 DSTQSSNGSG ASAVEGIPVF LSAIKEWVIE FGSSMISISI RTDMAWYRLG KPSKQYAPWF

541 ERVLKTARLA ISIITMLKEQ IRVSRLSFAD VIKRISELAK DHPAFISSTL QVVERYVVVH

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901 FFTLPYSSLG LGSGSCEACN IKESERQKEK FILDASLTSF IYQGTKYSIN DYIYVSPSYF

961 SSEEMEAEIY KAGRNVGLKA YVICQLLEIC DLKKSKRSEA NSVQVKVRRF FRPEDISSEK

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>SmCMT1 genomic sequence

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2281 CTGCGAGTCT GTAAAATACC AAAAAGAAAG GGAGCAAATT TTAGAGACCT CCCAGGAATT

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>SmCMT2b protein sequence

1 MADSAQLDSA DPPLAPPSPP PSLPLQLNGN SDPATPLPSS TDGGSDILDN YPQSNGVAMK

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721 QKYIRAAKCD MTASPSSVTT THKKPVLYDH RPYPMNEDDY LRVCKIPKRK GANFRDLPGI

781 VIGAGNVIRR AKEQDLMPSG KPWVPDYCLS YRDGRSHKPF GRLWWDETVP TVFCFPDHHS

841 RAILHPEQDR ILTLRECARL QGFPDYYMFS GSLKQRQVFM SYSQVGNAVA VSVGRALGYS

901 LGMAVQRLSG DEHLLTLPPK FSHSTTVELL SLLNQ

>SmCMT3 genomic sequence

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121 ACAAGGATTC CAACTGTCAT AGACGACGGG AGCGAGGATG CAGGTGAGGC CCTGTTTTTA

181 GGTGAACCGG TCGCCGGCGA GGAAGCTCGG AAACGGTGGC CGCATCGATA TCAGAAAGAT

241 AATCAGTCAA CGGTACATAG CTTCTGTTTA TATGGCATAT GCTGCTAATT GTGTTAGGTT

301 ATGCGTATAT GGTTTTTTTG GAAGGCTTAT GCGTATATGT TTATGATTTG TGATTGTGTA

361 TATGTGTTTG TGGCACATTT AAAACATGCG GAGAATATAT GGATTTTGTT TATATATAGG

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661 TTATAATTAA AAGTTGAATT TTGAAAAGTA TTAATTGACT CTAATAATTA ATTACTAATT

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781 ACTATAACAA ATCGCAAATG AAGATATGTT AAGACACAAT AAATTATGGA GAAAAGGATT

841 AATGTATATG TGGTATTTAA TGTAACATGC TTAAATTAAC TGTTTCGACC AGATTGGCGT

901 TGCCAAAAGG TTAATTGTAT TCAAAGATTT TGATTTTGGA CGGAATCGTA AATATACTCC

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421 TGGTATTATA GAGCAGATGA TACGGTTATT AAAACATGTT CTAATCTTAT AGATAACAGA

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781 GACATGTACT CTGGATGTGG TGCAATGTCG ACTGGGCTAT GCCTTGGTGC TAACAGTAAT

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901 AAACTAAACC ATCCAGAAAC ACAGGTAAGA AATGAAAAAG CAGATGATTT TTTCCACCTG

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>SmCMT3 protein sequence

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301 KLNHPETQVR NEKADDFFHL LVEWEKLCTS YLSSENKGTS SEHVKEEVED DSEEDENGDE

361 DDSEVFEVEE ILEVCYGDPN EKESPELHFK MGSNDKEPCI HCSSSCPQKL KEFVLRGYKS

421 RILPLPGAVD VVCGGPPCQG ISGFNRFRNK EAPLDDPKNK QLVVFMDIVS HLRPKFVLME

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661 FRDLPGVRVR PDNKVEWDPD VPRQKVSSGK PLVPDYAMTF VNGSSSKPFG RLWWDETVPT

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>SmDRM1 genomic sequence

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121 GTTGGCAATG AGGAGGTAAA GTTGCATTCC TGTGTATGAA GGAATCTTAG TTATTATGTC

181 TTCTCGATTG CTGCATGCAT ATCATCTTGA TTGCTGCACG CATGTCTTCT CAGTTACTAT

241 GATAGATAAA TTAACTTCTT GTTTTGTATG AAGGCTTGCT CCTCAAGAAG TGCTTCCCGT

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361 ATTGAGGAAA ATGGTACAGA CTATTTTATA TATTAACTAA GATTTGTTTG AGATATATGT

421 TGGCTATTTT AGATTTTCAA TTGTTTATCA TGCAGGAGAA GAAGATTCAG ACTCAATACT

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>SmDRM1 ORF sequence

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121 NDLSDMDSWS DDEIEDCLKP NGAPNGAANG VYRSEKHKML LSLAASGSLT EREEKLLSLA

181 DMGYPLEEAE IALERCGPKA LIGELSDFLC AAQMAREEDC YLPDDDLKPK HLLSGSSKSK

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361 WWPRWDPRDK LNCIQTAIAS AKLTERIRSA LERVESEADP PESVQRYVME QCRKWNLVWV

421 GRNKVAPLEP DEVEMLLGFP KNHTRGGGIS RTDRYKSLGN SFQVDTVAYH LSVLKDIYPN

481 GVNVLSLFSG IGGAEVALHR LGIKLKNVVS IEKSKVNRDI VRSWWEQTNQ TGMLIDFDDV

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601 SVMRNNRFA

>SmDRM2 genomic sequence

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61 GGAGTTATAC CCAAGGATGA GAATTTGGAT TATGATTTAC CACCGCCGAA AACATTCTCA

121 ATGCCAAGGG AGGTATGATT CTCCTTAATA AAATACAGCA AATTCGTTAA GGATTGGGGG

181 AAATCATGTC TTGGTTAAGT TTAATGCTGA AAGAGTGAGA TTGATTCCAC TACCGTTGTA

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301 TTTGGCTGCA CTGTAGGAGG ATGGCGCAAG CTCGTCGGGG ACTAATTTAA GATCATCGTT

361 CATTGGAATG GGGTTTGCAC CAGCTCTCGT CGACAAAGCA ATCAAGGAAA AGGGTTGGTG

421 TAGCTTACTC CTAGACAGTT TTGTGGCTTT TGTAATGTTT GAGTTGATAT TAATCTGAGC

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>SmDRM2 protein sequence

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61 GMGFAPALVD KAIKEKGEEN SELILEALFS YDALQKPKNE VLDNSFSGEC SDSLAGNLRA

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181 VGFAMQRLVA NLQDCNNEVL FGIMEKSLQL LEMGFTENEI SAAFERCGSE APVTLLAESI

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541 LKSLKLSFQT DTLGYHLSVL KRLFPSGVTV LSFFSGIGGA EVALHRLGIR LKGVVSVEPC

601 ETKRRIMKKW WEKSAQSGEL IQLESINKLT SNKLEDLLKK LKGFDLVICQ NPYSGAESDS

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>SmDNMT2 genomic sequence

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241 CGTCCGCATC AGGTAGCATC TTAAGATTAG CTGAAATATG AGTTTATATA TGCTATTCAT

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1081 CTTGTTTCTA TTTCCTTTTG CAGACATCTG ATACACATGA AAAGATGATC ACCATGTTGC

1141 GAGAAAATCA TTTTGACACA CAAGAATTCA TTCTAAGTCC TTTGCAATTT GGTGTGCCAT

1201 ATTCTCGGCC TCGCTATTTT TGCCTGGTCC ACCTCTCTCT CTCTCTCTCT CTCTCTGTCC

1261 CCAGTATATA CACCCACATA ATTTATGTTT GTCCATTTAC TTTTGTATAT CCAGTGCATT

1321 CACATGCATT CTCTCCATCT CTTCATTATG CATCTGCCTG TAAAGTTTGT ACCTAGCACG

1381 TGATATGGAA TCTTAACGCA GTTATACATA GAATCTGCAG CCTGAATAGA GAAAGTACTC

1441 TATATATTTA TTCGGCTTTC TTTACTCTTA TTGGTTGTTC GATATATGTT TCTAATCCAT

1501 TGTGAACTAC AGGCAAAGCG GAAACCTATA TATTTCCAGA AGGCACAGTT CAATAATGCG

1561 CTTCTTTGGT GCCCACGCCC TATACTTGGG TATGAGGAAA GCATGGTGAC AAGTGAAGAT

1621 GCTGAATCAC ATACATATTG GAATAAATTA CTTGAAACTA CTCTACCTAT ATGTGATTTT

1681 TTGGAATCAA GTGAAGTTAT TTTAGAATCG AGCTTAACTA AAATATCTGA GGATACTGAA

1741 GAAGAAAGTG AACTTGCTGC TGACCCTTCA AAACTGTTTT TAGTTCCATC TAGCCAGATA

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1981 TGATTGATTT AGATATTGTT TTCCCCGAAT CAAGACGCTG TTGTTGCTTC ACCAAAAGTT

2041 ACTTTCGATA CGTGAAGGGG ACTGGTTCCG TTTTGGCTAC CTGTCCCGCA AGTCAGCTAC

2101 AGGTACACAC CAATTTTTAT TGCAAATATA TCTATTTAGA TATAAGCACA TACAATATCA

2161 GCAGTTCCTA CCTTATGTCC TGAGAGCCTT TGAATTGTTC TTTATATATT CCTGATATTC

2221 CATGAGTGTC AATTATTGAT ATGTTCCTTT ACTTACAATT AACTTTCTGG AGATGAATAT

2281 TAATCTGAAT ATGGAATCCA AATTCTTTTG CACTGCATAT CCATGATGAT TTCATTTGAA

2341 TTTTCCCTAT GCATGCATGC CGACATAAGT TTGTACTATT AAATTTTCCA TGTGTAAGAG

2401 TGAAATATGT TGATGCTTGG TTATCCATGT TTATGTCTTG CGAAATACTC GAGGATGAAA

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2521 GTTCTCACTT GTGCACTGTT TTTTGAGTGT TCCTGATTCT GATATTGCCA AAGACATTAA

2581 TTTTCTTTCT TCAATATTAA AGCAATCATA TCACTTATCA TATTATGCAG GGAAAGAAGA

2641 AAATTGAATT GCCTTCGTTG CAGGAGCTTC AACTTAGATA CTTTACGCCC AGGGAGGTGC

2701 ACATTTTTCA CTCTCATACA TCAGTTTGTT TTTCAGCTCC TTTTGCATTA TTACTTGTTC

2761 AATTTTGTTC TCTCAAGTGT TTTCTCATCA ATGTCACTGT CAGGTCGCCA ATTTCCACTC

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3001 TTGCCTCTCC AACTGCTTAG GAATTTTAAA ATAATATATA GCGAATAATT TCATCCTAGG

3061 GCAGTTGGTT GCAGTTGGCC TCTGGAACTT TGCATGAGAA TATATATGAT CTATTTTTTG

3121 GATATCATAT ATGTTGGTTT TTGTGTTATT GGTTTGTTTG TTGGTTATGT GCATGTTCTT

3181 AACTAGAGAT GGTTATGTGC AGTTACGCGT TGCTGGGAAA CAGTCTGAGT GTTGGAGTCG

3241 TGGCACCACT TTTGCGCTAT CTATTTACTC AGCAATCATC ATAG

>SmDNMT2 ORF sequence

1 ATGGAGGGTT TAAGTAGAGA GACAGAGAAG CCATGGCGCG TACTCGAATT CTACAGTGGC

61 ATAGGTGGAT TGCGATATTC ATTGATGGAG GCGGGCGTAG ATGCTGTGGT AATCGAAGCA

121 TTTGACATCA ATGACGTTGC AAATGATGTT TACGAGCACA ATTTCGGCCA CCGTCCGCAT

181 CAGGGAAATA TTCAGACCTT GAGTGCTGTT AACCTCGACA GATATGGGGC TGATGCATGG

241 CTTTTGTCTC CTCCTTGCCA ACCTTACACA AGACAAGGTC TCCAGAAGGG TTCAAATGAC

301 GCTAGAGCTT CTTCATTTTT GAAGATTCTT GAACTAATAC CACAATGTTC ACGACCCCCA

361 GTGATGCTAT TTGTGGAGAA TGTTGTTGGA TTTGAGACAT CTGATACACA TGAAAAGATG

421 ATCACCATGT TGCGAGAAAA TCATTTTGAC ACACAAGAAT TCATTCTAAG TCCTTTGCAA

481 TTTGGTGTGC CATATTCTCG GCCTCGCTAT TTTTGCCTGG CAAAGCGGAA ACCTATATAT

541 TTCCAGAAGG CACAGTTCAA TAATGCGCTT CTTTGGTGCC CACGCCCTAT ACTTGGGTAT

601 GAGGAAAGCA TGGTGACAAG TGAAGATGCT GAATCACATA CATATTGGAA TAAATTACTT

661 GAAACTACTC TACCTATATG TGATTTTTTG GAATCAAGTG AAGTTATTTT AGAATCGAGC

721 TTAACTAAAA TATCTGAGGA TACTGAAGAA GAAAGTGAAC TTGCTGCTGA CCCTTCAAAA

781 CTGTTTTTAG TTCCATCTAG CCAGATAGAA AGATGGGGGA GTGCCATGGA TATTGTTTTC

841 CCCGAATCAA GACGCTGTTG TTGCTTCACC AAAAGTTACT TTCGATACGT GAAGGGGACT

901 GGTTCCGTTT TGGCTACCTG TCCCGCAAGT CAGCTACAGG GAAAGAAGAA AATTGAATTG

961 CCTTCGTTGC AGGAGCTTCA ACTTAGATAC TTTACGCCCA GGGAGGTCGC CAATTTCCAC

1021 TCTTTTCCGA AGGAGTTCCA ATTTCCACAA CATGTTAGCC TTCGTCAACG TTACGCGTTG

1081 CTGGGAAACA GTCTGAGTGT TGGAGTCGTG GCACCACTTT TGCGCTATCT ATTTACTCAG

1141 CAATCATCAT AG

>SmDNMT2 protein sequence

1 MEGLSRETEK PWRVLEFYSG IGGLRYSLME AGVDAVVIEA FDINDVANDV YEHNFGHRPH

61 QGNIQTLSAV NLDRYGADAW LLSPPCQPYT RQGLQKGSND ARASSFLKIL ELIPQCSRPP

121 VMLFVENVVG FETSDTHEKM ITMLRENHFD TQEFILSPLQ FGVPYSRPRY FCLAKRKPIY

181 FQKAQFNNAL LWCPRPILGY EESMVTSEDA ESHTYWNKLL ETTLPICDFL ESSEVILESS

241 LTKISEDTEE ESELAADPSK LFLVPSSQIE RWGSAMDIVF PESRRCCCFT KSYFRYVKGT

301 GSVLATCPAS QLQGKKKIEL PSLQELQLRY FTPREVANFH SFPKEFQFPQ HVSLRQRYAL

361 LGNSLSVGVV APLLRYLFTQ QSS