AT1G69770 = NP_177135 AAG52543 AAK69756 AAK71870 CMT3 (CHROMOMETHYLASE 3)/putative chromomethylase; 17383-22406 /chromomethylase CMT3 /chromomethylase 3

CAJ01708 *Hordeum vulgare* subsp. *vulgare* chromomethylase 1

NP_919497 *Oryza sativa* (japonica cultivar-group) AAL75761 ABB46585 putative DNA cytosine methyltransferase MET2a/Putative DNA cytosine methyltransferase MET2a /Putative DNA cytosine methyltransferase MET2a

AAK15805 *Zea mays* AAM28227 chromomethylase/DNA methyltransferase 105

AAK11516 *Zea mays* DNA cytosine methyltransferase MET2a

NP_912505 *Oryza sativa* (japonica cultivar-group) AAN60988 Putative DNA cytosine methyltransferase MET2a/Putative DNA cytosine methyltransferase MET2a

BAC53936 *Nicotiana tabacum* chromomethylase-like protein

XP_476210 *Oryza sativa* (japonica cultivar-group) putative DNA cytosine methyltransferase (EC 2.1.1.37)

AT4G19020 = NP_193637 CAA16759 CAB78904 AAK69757 ATP binding/DNA binding /chromatin binding /putative protein /putative protein /chromomethylase CMT2

AAC02670 *Arabidopsis suecica* chromomethylase

AT1G80740 = NP_565245 AAB95485 AAC02659 AAC02660 AAC02662 AAC02663 AAC02665 AAC02667 AAC02668 AAF14662 CMT1 (CHROMOMETHYLASE 1); DNA binding/chromatin binding /chromomethylase /chromomethylase /chromomethylase /chromomethylase /chromomethylase /chro

AAB95486 *Arabidopsis arenosa* AAC02671 chromomethylase/chromomethylase

Ppa_CMT3_4_1   ?   Smo_CMT3_4_1   ?   Smo_CMT3_5_2

Q9Z330 *Rattus norvegicus* DNMT1_RAT DNA (cytosine-5)-methyltransferase 1 (Dnmt1) (DNA methyltransferase I) (DNA MTase RnoIP) (MCMT) (M.RnoIP)

NP_445806 *Rattus norvegicus* BAA37118 *Rattus rattus* DNA (cytosine-5)-methyltransferase 1/DNA cytosine 5 methyltransferase

NP_034196 *Mus musculus* P13864 CAA32910 AAC40061 AAF19352 AAF60965 AAF97695 AAH53047 AAH48148 BAE27713 DNA methyltransferase (cytosine-5) 1/DNMT1_MOUSE DNA (cytosine-5)-methyltransferase 1 (Dnmt1) (DNA methyltransferase MmuI) (DNA MTase MmuI) (MCMT) (

NP_001370 *Homo sapiens* XP_512361 *Pan troglodytes* P26358 *Homo sapiens* S22610 CAA45219 AAF23609 BAD92650 AAH92517 DNA (cytosine-5)-methyltransferase 1/PREDICTED: similar to DNA (cytosine-5)-methyltransferase 1 /DNMT1_HUMAN DNA (cytosine-5)-methyltransferase

XP_533919 *Canis familiaris* PREDICTED: similar to DNA (cytosine-5)-methyltransferase 1 (Dnmt1) (DNA methyltransferase HsaI) (DNA MTase HsaI) (MCMT) (M.HsaI)

NP_872592 *Bos taurus* AAP20551 DNA (cytosine 5) methyltransferase 1/DNA cytosine-5 methyltransferase 1

NP_001009473 *Ovis aries* AAO39704 DNA (cytosine-5)-methyltransferase 1/DNA (cytosine-5)-methyltransferase 1

AAO44952 *Bos taurus* AAI14064 cytosine-5-methyltransferase/DNA (cytosine 5) methyltransferase 1

NP_001028141 *Monodelphis domestica* AAM89258 DNA (cytosine-5)-methyltransferase/cytosine-5-methyltransferase

NP_996835 *Gallus gallus* Q92072 2112268A BAA07867 DNA (cytosine-5)-methyltransferase 1/DNMT1_CHICK DNA (cytosine-5)-methyltransferase 1 (Dnmt1) (DNA methyltransferase GgaI) (DNA MTase GgaI) (MCMT) (M.GgaI) /2112268A DNA methyltransferase /DNA (cytosi

AAC69603 *Danio rerio* DNA methyltransferase

AAF73200 *Xiphophorus maculatus* x *Xiphophorus helleri* DNA-(cytosine-5)-methyltransferase

XP_698349 *Danio rerio* NP_571264 AAL86596 PREDICTED: similar to DNA (cytosine-5)-methyltransferase/DNA (cytosine-5-)-methyltransferase 1 /DNA (cytosine-5-)-methyltransferase

AAH72774 *Xenopus laevis* Dnmt1 protein

BAA11458 *Xenopus laevis* DNA (cytosine-5-)-methyltransferase

CAD42182 *Paracentrotus lividus* CAD43077 DNA methyltransferase/DNA methyltransferase 1a

JC5210 *Paracentrotus lividus* Q27746 CAA90563 JC5210 DNA (cytosine-5-)-methyltransferase (EC 2.1.1.37) - sea urchin (Paracentrotus lividus)/DNMT1_PARLI DNA (cytosine-5)-methyltransferase PliMCI (Dnmt1) (DNA methyltransferase PliMCI) (DNA MTase PliMCI)

XP_801864 *Strongylocentrotus purpuratus* XP_801911 XP_780273 PREDICTED: similar to DNA (cytosine-5)-methyltransferase 1 (Dnmt1) (DNA methyltransferase HsaI) (DNA MTase HsaI) (MCMT) (M.HsaI) isoform 4/PREDICTED: similar to DNA (cytosine-5)-methyltrans

BAD67189 *Bombyx mori* DNA cytosine-5 methyltransferase

1040_Cre

Smo_CMT3_1_1   ?   Smo_CMT3_2_1

Ppa_CMT3_1_1

DAA01513 *Oryza sativa* (japonica cultivar-group) BAD30340 TPA: TPA_exp: putative cytosine-5 DNA methyltransferase/putative DNA methyltransferase

AAC16389 *Zea mays* AAG15406 AAM28226 putative cytosine-5 DNA methyltransferase/cytosine-5 DNA methyltransferase MET1 /DNA methyltransferase 101

NP_909944 *Oryza sativa* (japonica cultivar-group) AAL77415 AAP44671 putative DNA (cytosine-5-)-methyltransferase/putative cytosine-5 DNA methyltransferase /putative DNA (cytosine-5-)-methyltransferase

AAM96952 *Prunus persica* DNA cytosine-5-methyltransferase

AT5G49160 = NP_199727 P34881 S59604 AAA32829 BAB10334 MET1 (DECREASED METHYLATION 2DNA)/DNM1_ARATH DNA (cytosine-5)-methyltransferase AthI (DNA methyltransferase AthI) (DNA Metase AthI) (M.AthI) /S59604 DNA (cytosine-5)-methyltransferase (EC 2.1.1.

AT4G13610 = NP_193097 CAB41119 CAB78403 DNA (cytosine-5)-methyltransferase/DNA binding /DNA (cytosine-5-)-methyltransferase-like protein /DNA (cytosine-5-)-methyltransferase-like protein

AT4G08990 = NP_192638 CAB78023 DNA (cytosine-5)-methyltransferase/DNA binding /Met2-type cytosine DNA-methyltransferase-like protein

AT4G14140 = NP_193150 CAB10193 AAF14882 CAB78456 MET2; DNA (cytosine-5)-methyltransferase/DNA binding /(cytosine-5-)-methyltransferase /cytosine-5 methyltransferase /(cytosine-5-)-methyltransferase

BAA92852 *Nicotiana tabacum* AAV80209 DNA (cytosine-5)-methyltransferase/cytosine-5-methyltransferase

CAA05207 *Lycopersicon esculentum* DNA (cytosine-5)-methyltransferase

AAC49931 *Pisum sativum* cytosine-5 DNA methyltransferase

AAC39356 *Daucus carota* Met2-type cytosine DNA-methyltransferase

AAC39355 *Daucus carota* Met1-type cytosine DNA-methyltransferase

0.100