

Product datasheet for **RR210078**

Trdmt1 (NM_001031643) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trdmt1 (NM_001031643) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trdmt1
Synonyms:	Dnmt2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210078 representing NM_001031643 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAACCTCTGCGTGTCTGGAGCTGTACAGTGGCATTGGGGGCATGCACCACGCGCTGCGAGAAAGCC
GTGTCCCTGCACATGTGGTGGCTGCTATTGACGTGAGCACTGTTGCTAACGAAGTACAAGCATAACTT
CCCTCATACACTTACTGGCAAAGACAATCGAAGGTATTTCACTGGAAGAGTTTGACAAGCTATCTTTT
AATATGATTTTAAATGAGCCCTCCATGTCAGCCATTACACAAGAATTGGCCTACAGGGGACATGAGTGATC
GAAGGACAAATAGCTTCTTGATATTCTAGATATTCTCCAAGGTTACAGAAGTTACCCAAGTATATTCT
TTAGAAAATGTCAAAGGTTTGAAGTTTCTTCTACAAGAGGGCTGCTGATACAAACAATGGAAGCCTGC
GGCTTTCAGTATCAAGAGTTTCTGTTGTCTCCGTCCTCTCTAGGCATTCCAAACTCAAGGCTACGGTATT
TTCTCATTGCGAAGCTTCAGTCAGAGCCTCTGTGTTCCAGGCCCTGGCCAGATACTGATGGAGTTTCC
TAATAGTGAACAGTTTCAGCCACAAGAATATGCAGTAGTTGAAGAAGGCAAGCTGAGAGTGAGGACAAGG
GAGCCAGATGTCTGCCTTGATAGCAGCAGCACCCAGTGCCTGGACAAGATAGCATTCTTTTTAAGCAGC
AGACTGCAGCAGACATTGACAGGAAGCGCAACAGGACAGTGCCTCTGTGCGAGATGCTGAAAGGTTT
CCTTGAAGATGGTGACACAGCTCAGTACCTTCTGCCAGCGAAGTCGCTGCTGCGCTACGCTCTCCTCTC
GACATCGTTAAGCCACCTCCAGGAGGTCCATGTGCTTCACTAAAGGGTATGGAAGCTACATAGAAGGGA
CAGGCTCTGTGTTACAGACTGCAGAGGATGTGCAGATTGAGAATATCTACAAATCTCTTCTGATTTGCC
ACCAGAAGAGAAGATAGCTAAATTTGCAATGCTTAAACTGCGATATTTACACCTAAAGAAATGCAAAAT
CTCCTGGGATTTCTCCAGAATTTGGGTTTCTGAGAAGACAACGGTGAAGCAGCGTTACCGGCTGCTCG
GCAACAGCCTCAACGTGCATGTCGCTCTCAAAGCTCCTTACAGTCTGTGTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210078 representing NM_001031643
 Red=Cloning site Green=Tags(s)

MEPLRVLELYSGIGGMHHALRESRVPAAHVVAADVSTVANEVYKHNFPHTHLLAKTIEGISLEEFDKLSF
 NMILMSPPCQPFTRIGLQGDMSDRRTNSFLYILDILPRLQKLPKYILLENVKGFVSSTRGLLIQTMEAC
 GFQYQEFLLSPSSLGIPNSRLRYFLIAKLQSEPLCFQAPGQILMEFPNSGTVQPQYAVVEEGKLRVTR
 EPDVCLDSSSTQCSCGQDSILFKHETAADIDRKRQQSDLSVQMLKGFLEDGDTAQYLLPAKSLRLRYALLL
 DIVKPTSRRSMCFTKGYGSYIEGTGSLVLTAEVDQIENIYKSLPDLPPEEKIAKLSMLKLRYPFKPEIAN
 LLGFPPEFGFPEKTTVKQRYRLLGNLSLVHVVSKLLTVLCE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

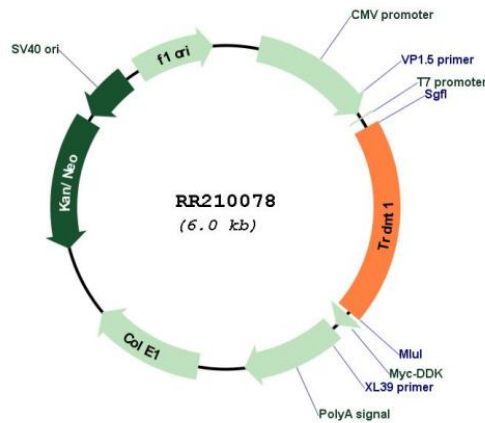
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001031643

ORF Size:	1173 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001031643.1 , NP_001026813.1
RefSeq Size:	1536 bp
RefSeq ORF:	1176 bp
Locus ID:	291324
UniProt ID:	Q4G073
Cytogenetics:	17q12.3
MW:	44.1 kDa
Gene Summary:	Specifically methylates cytosine 38 in the anticodon loop of tRNA(Asp).[UniProtKB/Swiss-Prot Function]