

Product datasheet for SC317557

PRMT1 (NM_198318) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRMT1 (NM_198318) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRMT1
Synonyms:	ANM1; HCP1; HRMT1L2; IR1B4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317557 representing NM_198318. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTGCTGCTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGCGGCAGCCGAGGCCGCAACTGCATCATGGAGGTGTCTGTGGCCAGGCGGAAAGCAGTGAGAAG
 CCCAACGCTGAGGACATGACATCCAAAGATTACTTTGACTCCTACGCACACTTTGGCATCCACGAG
 GAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTACCGCAACTCCATGTTTCATAACCGGCACCTCTTC
 AAGGACAAGGTGGTGTGCTGGACGTGGCTCGGGCACCAGGCATCCTCTGCATGTTTGTGCCAAGGCCGGG
 GCCCGCAAGGTCATCGGATCGAGTGTCCAGTATCTCTGATTATGCGGTGAAGATCGTCAAAGCCAAC
 AAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGTGGAGGAGGTGGAGCTCCAGTGGAGAAGGTG
 GACATCATCATCAGCGAGTGGATGGGCTACTGCCCTCTTCTACGAGTCCATGCTCAACACCGTGCTCTAT
 GCCCGGGACAAGTGGCTGGCGCCCGATGGCCTCATCTTCCAGACCGGGCCACGCTGTATGTGACGGCC
 ATCGAGGACCGGAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCT
 TGCATCAAAGATGTGGCCATTAAAGGAGCCCTAGTGGATGTCTGGACCCCAAACAGCTGGTCACCAAC
 GCCTGCCTCATAAAGGAGGTGGACATCTATACCGTCAAGGTGGAAGACCTGACCTTACCTCCCCGTTC
 TGCTGCAAGTGAAGCGGAATGACTACGTGCACGCCCTGGTGGCTACTTCAACATCGAGTTCACACGC
 TGCCACAAGAGGACCGGCTTCTCCACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTTT
 TACATGGAGGACTACCTGACCGTGAAGACGGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCCAAC
 GCCAAGAACAACCGGGACCTGGACTTCACCATCGACCTGGACTCAAGGGCCAGCTGTGCGAGCTGTCC
 TGCTCCACCGACTACCGGATGCGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_198318


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Insert Size:	1062 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_198318.4</u>
RefSeq Size:	1396 bp
RefSeq ORF:	1062 bp
Locus ID:	3276
UniProt ID:	<u>Q99873</u>
Cytogenetics:	19q13.33
MW:	40.5 kDa
Gene Summary:	<p>This gene encodes a member of the protein arginine N-methyltransferase (PRMT) family. Post-translational modification of target proteins by PRMTs plays an important regulatory role in many biological processes, whereby PRMTs methylate arginine residues by transferring methyl groups from S-adenosyl-L-methionine to terminal guanidino nitrogen atoms. The encoded protein is a type I PRMT and is responsible for the majority of cellular arginine methylation activity. Increased expression of this gene may play a role in many types of cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq, Dec 2011]</p> <p>Transcript Variant: This variant (3) lacks an exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.</p>