

Product datasheet for **MC219264**

Carm1 (NM_153141) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carm1 (NM_153141) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Carm1
Synonyms:	Prmt4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219264 representing NM_153141
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGCGGCGGCAGCGACGGCGGTGGGGCCGGGTGCGGGGAGCGCTGGGGTGGCGGGCCCGGGCGCG
 CGGGGCCCTGCGCTACAGTGTCTGTGTTCCCGGGCGCCCGCTCCTCACTATCGGCGACGCGAACGGCGA
 GATCCAGCGGCACGCGGAGCAGCAGGCGCTGCGCCTTGAGGTGCGCGCCGACCAGACGCGGCGGGCATC
 GCCCTCTACAGCCATGAAGATGTGTGTTTTCAAGTGTCTCGGTGTCCGAGAGACAGAGTGCAGTCGTG
 TGGGCAGACAGTCTTCATCATCACCTGGGCTGCAACAGCGTCTCATCCAGTTTGCCACACCCACGA
 TTTCTGTTCTTTTACAACATCTGAAACCTGTCGGGGCCACACACTGGAGCGCTCTGTGTTCAGTGAG
 CGGACAGAGGAATCCTCAGCTGTGCAGTACTTCCAGTTCTATGGTACCTATCCCAGCAGCAGAATGA
 TGCAGGACTATGTGCGGACAGGCACCTACCAGCGTGCATCCTGCAGAACCACACGGACTTCAAGGACAA
 GATCGTTCTAGATGTGGGCTGTGGCTCTGGGATCCTGTCATTTTTGTCTCAAGCAGGAGCCAGGAAA
 ATTTATGCAGTGAAGCCAGCACCATGGCTCAGCATGCAGAGGTCTGGTGAAGAGTAACAATCTGACAG
 ACCGCATCGTGGTCATCCCTGGCAAAGTAGAGGAGGTCTCATTGCCTGAGCAAGTGGACATTATCATCTC
 AGAGCCCATGGGCTACATGCTCTTCAATGAACGAATGCTCGAGAGCTACCTCCATGCCAAAAAGTACCTG
 AAGCCTAGTGGAAACATGTTCCCAACATTGGTGTGTCACCTCGCACCTTCACTGATGAACAGCTCT
 ACATGGAGCAGTTCACCAAAGCCAATTCTGGTACCAGCCATCCTCCATGGAGTGGACCTGTGCGCCCT
 CAGAGGCGCCGCTGTGGATGAGTACTCCGGCAACCTGTGGTGGACACATTTGACATCCGGATCCTGATG
 GCCAAATCTGTCAAGTACACAGTGAACCTTTAGAAGCCAAAGAAGGCGATTTGCACAGGATAGAAATCC
 CATTCAAATCCACATGCTGCATTACAGGGCTAGTCCATGGCTTGGCCTTCTGGTTGATGTTGCTTTCAT
 TGGCTCCATAATGACCGTGTGGCTATCCACAGCCCAACAGAGCCCTGACCCACTGGTACCAGGTCCGG
 TGCTCTTCCAGTCACCGTTGTTTGCCAAAGGCCGGGACACGCTCTCAGGGACATGTCTGCTTATTGCCA
 ACAAAGACAGAGCTATGACATCAGTATTGTGGCAGAGGTGGACCAGACAGGCTCCAAGTCCAGTAACT
 GCTGGATCTAAAGAACCCTTCTCAGGTACACAGGTACAACCCCATCACCCCACTGGCTCACACTAC
 ACGTCTCCCTCGGAGAATATGTGGAACACAGGAAGCACCTATAATCTCAGCAGCGGGGTGGCTGTGGCTG
 GAATGCCTACTGCCTACGACCTGAGCAGTGTATTGCGGCGGCTCCAGTGTGGTCAACAACCTGAT
 TCCCTTAGGCTCCTCAGGTGCCAGGGAGGCGGGGTAGCTCCAGTGCCTACTATGCAGTCAACAACCGAG
 TTCACCATGGGTGCCCTGCCATCTCTATGGCCTCGCCATGTCCATCCCGACCAACACCATGCAGTATG
 GGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_153141
- Insert Size:** 1758 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).
- 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_153141.1 , NP_694781.1
RefSeq Size:	3151 bp
RefSeq ORF:	1758 bp
Locus ID:	59035
UniProt ID:	Q9WVG6
Cytogenetics:	9 A3
Gene Summary:	<p>Methylates (mono- and asymmetric dimethylation) the guanidino nitrogens of arginyl residues in several proteins involved in DNA packaging, transcription regulation, pre-mRNA splicing, and mRNA stability. Recruited to promoters upon gene activation together with histone acetyltransferases from EP300/P300 and p160 families, methylates histone H3 at 'Arg-17' (H3R17me), forming mainly asymmetric dimethylarginine (H3R17me2a), leading to activates transcription via chromatin remodeling. During nuclear hormone receptor activation and TCF7L2/TCF4 activation, acts synergically with EP300/P300 and either one of the p160 histone acetyltransferases NCOA1/SRC1, NCOA2/GRIP1 and NCOA3/ACTR or CTNNB1/beta-catenin to activate transcription. During myogenic transcriptional activation, acts together with NCOA3/ACTR as a coactivator for MEF2C. During monocyte inflammatory stimulation, acts together with EP300/P300 as a coactivator for NF-kappa-B. Acts as coactivator for PPARG, promotes adipocyte differentiation and the accumulation of brown fat tissue. Plays a role in the regulation of pre-mRNA alternative splicing by methylation of splicing factors. Also seems to be involved in p53/TP53 transcriptional activation. Methylates EP300/P300, both at 'Arg-2142', which may loosen its interaction with NCOA2/GRIP1, and at 'Arg-580' and 'Arg-604' in the KIX domain, which impairs its interaction with CREB and inhibits CREB-dependent transcriptional activation. Also methylates arginine residues in RNA-binding proteins PABPC1, ELAVL1 and ELAV4, which may affect their mRNA-stabilizing properties and the half-life of their target mRNAs.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an exon in the 3' coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>