

## Product datasheet for **MC210544**

### **Carnmt1 (NM\_026120) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Carnmt1 (NM_026120) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Carnmt1
Synonyms:	2410127L17Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC210544 representing NM_026120 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGCAGCGACGACAGCGCGCTCCGCCGCGTCTCAACCGCCAGGACGGCGGGCGAAGCGAGGACGTGG  
AGGTGCAGTTCTCGCCGGGCGTTTGGGCTCGGCCGCGCTGCGGGCCCCCGGCGCGCCGACCCCGCA  
GGACGAGGAGCGGCTGGAGCGGAGCACTTCTGGAAGGTCAACGCGTTCCGCTACTACGGCACCAGC  
ATGCATGAACGAGTGAACAGAACAGAAAGACAGTTTCGGTCCCTTCCAGAGAACCAGCAGAACTGCTTC  
CTCAGTTTCTTCACTTGGACAAGATCCGGAATGCATTGACCATAATCAGGAAATACTGCTGACCAT  
TGTGAATGATTGCATACATATGTTTCGAAAATAAAGAATATGGAGAAGTGCCAATGAAAAGATTATGCCA  
GCATCTACATTTGACATGGATAAGTTAAATCTACACTGAAACAGTTTGTAAAGAGACTGGAGTGAGACCG  
GGAAAGCAGAAAGGGACGCTGCTATAAGCCAATCATTAAAGAGATTATCAAAAATTTCCAAAGGAGAG  
ATGGGATCCTTCTAAAGTAAATATTCTGGTACCTGGTGGTGGACTAGGAAGATTGGCCTGGGAAGTAGCT  
ATGCTAGGTTATGCTTGTCAAGGAAATGAATGGAGTTTTTTTATGCTCTTTTCTTCCAACCTTTGACTCA  
ACAGATGTTCTGAAATTAACAAATATAAACTTTATCCCTGGATCCATCAGTTTAGCAATAATCGGAGATC  
AGCTGATCAGATCCGACCCATTTCTTTCCCTGATGTTGACCCACAGTCTTCCCTCTGTTCTAACTTT  
TCCATGACAGCAGGAGACTTTTCAAGGAGATTTACTCAGAATGCAATGCCTGGGACTGTATTGCCACCTGCT  
TCTTCATAGACACAGCTCACAATGTAATTGATTATATTGATACAATATGGAGAATACTCAAGCCAGGTGG  
AATCTGGATAAATCTTGGTCTCTACTATACCATTTTGGAAATCTGGCAAATGAACTGTCTATAGAATTG  
AGCTATGAGGATATTAATAATGTTGTTCTTTCAGTATGGATTTTCAGCTAGAGGTGGAGAAAGAATCTGTAT  
TGTCACATATACTGTGAATGATCTCTCTATGATGAAATACTACTATGAGTGTGTTTTGTTGTTGGTCCG  
GAAGCCACA**TAA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-RsrII
<b>ACCN:</b>	NM_026120
<b>Insert Size:</b>	1203 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_026120.4</a> , <a href="#">NP_080396.2</a>
<b>RefSeq Size:</b>	2138 bp
<b>RefSeq ORF:</b>	1203 bp
<b>Locus ID:</b>	67383
<b>UniProt ID:</b>	<a href="#">Q80UY1</a>
<b>Cytogenetics:</b>	19
<b>Gene Summary:</b>	N-methyltransferase that mediates the formation of anserine (beta-alanyl-N(Pi)-methyl-L-histidine) from carnosine. Anserine, a methylated derivative of carnosine (beta-alanyl-L-histidine), is an abundant constituent of vertebrate skeletal muscles. Also methylates other L-histidine-containing di- and tripeptides such as Gly-Gly-His, Gly-His and homocarnosine (GABA-His).[UniProtKB/Swiss-Prot Function]