

Product datasheet for RN209754

Carnmt1 (NM_001024974) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Carnmt1 (NM_001024974) Rat Untagged Clone
Tag: Tag Free
Symbol: Carnmt1
Synonyms: RGD1311863
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN209754 representing NM_001024974
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGCAGCGACGACGGCGCGCTCCGCCCGCTCTCAGCCGGCCAGGACAGCGGGCACAGCGAGGAGTGG
 AGGTGCAGTTCTCCGCCGGCGTTTGGGCTCGGCCGCCCTGCCGGGCCCCAGTGCGCGGCACCCGCCGA
 GGACGAGGAGCGGCTGGAGCGCGAGCACTTCTGGAAGGTCAATTAACGCGTTCCGCTACTACGGCACCAGT
 ATGCACGAACGAGTGAACAGAACAGAAAGACAGTTTCGATCACTTCCAGATAATCAGCAGAACTGCTTC
 CTCAGTTTCTTCACTTGGACAAGATCCGGAATGCGTTGACCATAATCAGGAAATACTGCTGACCAT
 TGTGAATGATTGCATACATATGTTTAAAAATAAGAATATGGAGAAGTGCCAATGAAAAGATTATGCCA
 GCATCTACATTTGACATGGATAAGTTAAATCTACACTCAAACAGTTTGTAAAGAGACTGGAGTGGAAACCG
 GAAAAGCAGAAAGGGATGCCTGCTATAAGCCAATCATTAAAGAGATTATCAAAAATTTCCAAAAGAGAG
 ATGGGATCCTTCTAAAGTAAATATTCTGGTACCTGGTCTGGACTAGGAAGATTGGCCTGGGAAATAGCT
 ATGCTAGGTTATGCTTGTCAAGGAAATGAATGGAGTTTTTTTATGCTCTTTTCTTCCAACCTTTGACTCA
 ACAGATGTTCTGAAGTTGACAAATATAAATTTATCCCTGGATCCATCAGTTTAGCAATAATCGGAGATC
 AGCTGATCAGATTCGACCCATTTTTTCCCTGATGTTGACCCACAGTCTTCCCTCGTTCTAACTTT
 TCGATGACAGCAGGAGACTTTCAGGAGATTTACTCAGAATGCAATACCTGGGACTGTATTGCCACCTGTT
 TCTTCATAGACACAGCTCACAATGTCATTGATTATATTGATACGATATGGAGAATACTCAAGCCAGGTGG
 AATTTGGATAAATCTTGGTCTCTACTCTACCCTTTGAAAACCTGGCAAATGAACTGTCTATAGAATTG
 AGCTATGAGGATATTA AAAACGTTGTTCTGCAGTATGGATTCCAGCTAGAGGTGGAGAAAGAATCCGTAC
 TGCAACATATACTGTGAATGACCTCTCCATGATGAAGTACTACTATGAGTGTGTTTTGTTGTGGTCCG
 GAAGCCACA**TAA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-RsrII
ACCN:	NM_001024974
Insert Size:	1203 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:	<u>NM_001024974.1</u> , <u>NP_001020145.1</u>
RefSeq Size:	1339 bp
RefSeq ORF:	1203 bp
Locus ID:	293871
UniProt ID:	<u>Q5BJZ6</u>
Cytogenetics:	1q43
Gene Summary:	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]