

Product datasheet for MR212430

Carnmt1 (NM_026120) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carnmt1 (NM_026120) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Carnmt1
Synonyms:	2410127L17Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR212430 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGCAGCGACGACAGCGCTCCGCCGCGTCTCAACCGCCAGGACGGCGGGCGAAGCGAGGACGTGG
AGGTGCAGTTCTCGCCGGGCGTTTGGGCTCGGCCGCGCTGCGGGCCCCCGGCGCGCCGACCCCGCA
GGACGAGGAGCGGCTGGAGCGGAGCACTTCTGGAAGGTCAACGCGTTCCGCTACTACGGCACCAGC
ATGCATGAACGAGTGAACAGAACAGAAAGACAGTTTCGGTCCCTTCCAGAGAACCAGCAGAACTGCTTC
CTCAGTTTCTTCACTTGGACAAGATCCGGAATGCATTGACCATAATCAGGAAATACTGCTGACCAT
TGTGAATGATTGCATACATATGTTTCGAAATAAAGAATATGGAGAAGTGCCAATGGAAAGATTATGCCA
GCATCTACATTTGACATGGATAAGTTAAATCTACACTGAAACAGTTTGTAAAGAGACTGGAGTGAGACCG
GGAAAGCAGAAAGGGACGCTGCTATAAGCCAATCATTAAAGAGATTATCAAAAATTTTCCAAAGGAGAG
ATGGGATCCTTCTAAAGTAAATATTCTGGTACCTGGTCTGGACTAGGAAGATTGGCCTGGGAAGTAGCT
ATGCTAGGTTATGCTTGTCAAGGAAATGAATGGAGTTTTTTTATGCTCTTTTCTTCCAACCTTTGACTCA
ACAGATGTTCTGAAATTAACAAATATAAACTTTATCCCTGGATCCATCAGTTTAGCAATAATCGGAGATC
AGCTGATCAGATCCGACCCATTCCTTTCCCTGATGTTGACCCACAGTCTTCCCTCTGTTCTAACTTT
TCCATGACAGCAGGAGACTTTCAGGAGATTTACTCAGAATGCAATGCCTGGGACTGTATTGCCACCTGCT
TCTTCATAGACACAGCTCACAATGTAATTGATTATATTGATACAATATGGAGAATACTCAAGCCAGGTGG
AATCTGGATAAATCTTGGTCTCTACTATACCATTTTAAAACTGGCAAATGAACTGTCTATAGAATTG
AGCTATGAGGATATAAAAATGTTGTTCTTCTCAGTATGGATTTCTAGCTAGAGGTGGAGAAAGAATCTGTAT
TGTCACATATACTGTGAATGATCTCTATGATGAAATACTACTATGAGTGTGTTTTGTTGTGGTCCG
GAAGCCACAA

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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ORF Size:	1200 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_026120.5
RefSeq Size:	2138 bp
RefSeq ORF:	1203 bp
Locus ID:	67383
UniProt ID:	Q80UY1
Cytogenetics:	19
MW:	46.3 kDa
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]