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Product datasheet for RR209754

Carnmt1 (NM_001024974) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carnmt1 (NM_001024974) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Carnmt1
Synonyms:	RGD1311863
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209754 representing NM_001024974 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCAGCGACGACGGCGCGCTCCGCCCGCGTCTCAGCCGGCCCAGGACAGCGGGCACAGCGAGGAGGTGG AGGTGCAGTTCTCCGCCGGGCGTTTGGGCTCGGCCGCCCCTGCCGGGCCCCCAGTGCGCGGCACCGCCGA GGACGAGGAGCGGCTGGAGCGCGAGCACTTCTGGAAGGTCATTAACGCGTTCCGCTACTACGGCACCAGT ATGCACGAACGAGTGAACAGAACAGAAAGACAGTTTCGATCACTTCCAGATAATCAGCAGAAACTGCTTC CTCAGTTTCCTCTTCACTTGGACAAGATCCGGAAATGCGTTGACCATAATCAGGAAATACTGCTGACCAT TGTGAATGATTGCATACATATGTTTGAAAATAAAGAATATGGAGAAGATGCCAATGGAAAGATTATGCCA GCATCTACATTTGACATGGATAAGTTAAAATCTACACTCAAACAGTTTGTAAGAGACTGGAGTGGAACCG GAAAAGCAGAAAGGGATGCCTGCTATAAGCCAATCATTAAAGAGATTATCAAAAATTTTCCAAAAGAGAG ATGGGATCCTTCTAAAGTAAATATTCTGGTACCTGGTGCTGGACTAGGAAGATTGGCCTGGGAAATAGCT ATGCTAGGTTATGCTTGTCAAGGAAATGAATGGAGTTTTTTTATGCTCTTTTCTTCCAACTTTGTACTCA ACAGATGTTCTGAAGTTGACAAATATAAACTTTATCCCTGGATCCATCAGTTTAGCAATAATCGGAGATC AGCTGATCAGATTCGACCCATTTTTTTCCCTGATGTTGACCCCCACAGTCTTCCTCCTGGTTCTAACTTT TCGATGACAGCAGGAGACTTTCAGGAGATTTACTCAGAATGCAATACCTGGGACTGTATTGCCACCTGTT TCTTCATAGACACAGCTCACAATGTCATTGATTATATTGATACGATATGGAGAATACTCAAGCCAGGTGG AATTTGGATAAATCTTGGTCCTCTACTCTACCACTTTGAAAACCTGGCAAATGAACTGTCTATAGAATTG AGCTATGAGGATATTAAAAACGTTGTTCTGCAGTATGGATTCCAGCTAGAGGTGGAGAAAGAATCCGTAC TGTCAACATATACTGTGAATGACCTCTCCATGATGAAGTACTACTATGAGTGTGTTTTGTTTGTGGTCCG GAAGCCACAA AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

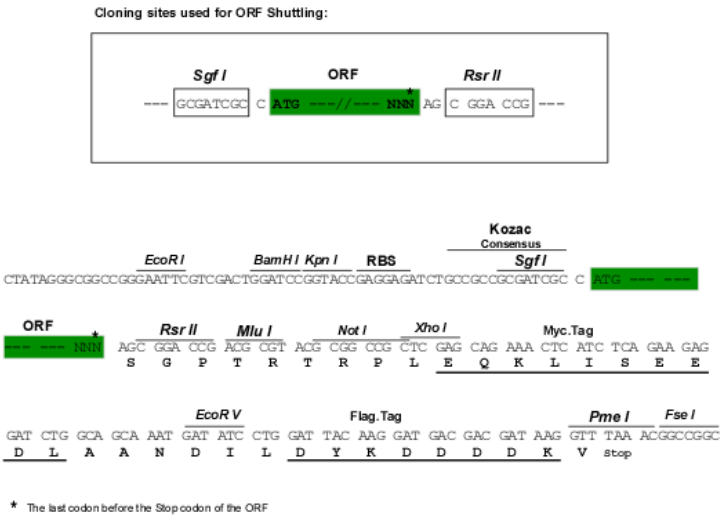
>RR209754 representing NM_001024974
Red=Cloning site Green=Tags(s)

MQRRRRAPPASQPAQDSGHSEEVEVQFSAGRLGSAAPAGPPVRGTAEDEERLEREHFWKVINAFRYYGTS
MHERVNRTERQFRSLPDNQQKLLPQFPLHLDKIRKCVDHNQEILLTIVNDCIHMFENKEYGEDANGKIMP
ASTFDMDKLKSTLKQFVRDWSGTGKAERDACYKPIIKEIIKNFPKERWDPSKVNILVPGAGLGRLAWEIA
MLGYACQGNEWSFFMLFSSNFVLNRCSEVDKYKLYPWIHQFSNNRRSADQIRPIFFPDVDPHSLPPGSNF
SMTAGDFQEIYSECNTWDCIATCFFIDTAHNVIDYIDTIWRILKPGGIWINLGPLLYHFENLANELSIEL
SYEDIKNVVLQYGFQLEVEKESVLSTYTVNDLSMMKYYYECVLFVVRKPQ

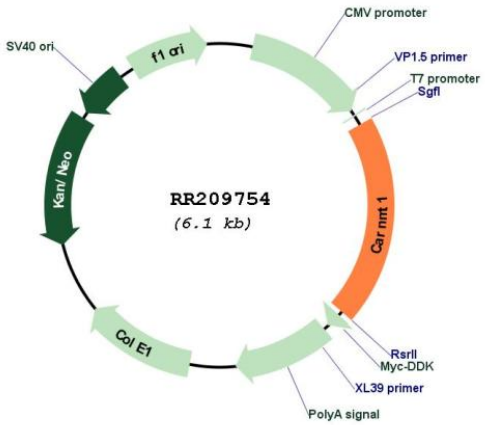
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024974

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:	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_001024974.1, NP_001020145.1
RefSeq Size:	1339 bp
RefSeq ORF:	1203 bp
Locus ID:	293871
UniProt ID:	Q5BJZ6
Cytogenetics:	1q43
MW:	46.4 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]