

Product datasheet for **SC108096**

C9orf41 (CARNMT1) (NM_152420) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C9orf41 (CARNMT1) (NM_152420) Human Untagged Clone
Tag:	Tag Free
Symbol:	CARNMT1
Synonyms:	C9orf41; UPF0586
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_152420, the custom clone sequence may differ by one or more nucleotides

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ATGCAGCGACGGCGTCGCCCTCCGCCGCCACCTCCCGGCTGCCCGAGGGCTGCGGGGGAGGAGGCGGTG
GCAGCGAGGAGGTGGAAGTGCAGTTTTCCGCCGGGCGTTGGGGCTCGGCCGCGGCGGTTTTCCGCCGCGCAGC
GGCGGCGGCCACGCGCAGCACCGAGGAGGAGGAGGAGGAGGCTTGAGCGTGAGCACTTCTGGAAGATCATT
AATGCCTTCCGCTACTACGGCACCAGTATGCATGAGCGGGTGAACCGAACAGAAAGACAGTTTCGATCAC
TTCCAGCTAACCAACAGAACTACTTCCCTCAGTTTCTTCTTCACTTGACAAGATCCGGAATGCATTGA
TCATAATCAAGAAATACTACTGACCATTGTGAATGATTGCATACATATGTTTAAAAATAAAGAATATGGA
GAAGATGGGAATGAAAAGATTATGCCAGCATCTACATTTGACATGGATAAGTTAAAAATCCACGCTGAAAC
AGTTTGTGAGAGACTGGAGTGAACTGGGAAAGCAGAAAGGGATGCCTGTTACCAGCCAATCATTAAAGA
AATTTTAAAAATTTTCCAAAAGAGAGATGGGATCCTTCTAAAGTAAATATTCTGGTACCTGGTGTGGA
CTAGGAAGACTGGCCTGGGAAATAGCTATGCTAGGTTATGCTTGTCAAGGAAATGAATGGAGTTTTTTTA
TGCTCTTTTCTTCCAACTTTGTACTCAACAGATGTTCTGAAATTAATAAATAAACTTTATCCTTGGAT
CCATCAGTTTAGCAATAACCGGAGATCAGCTGATCAGATTCGACCCATCTTTTCCCTGATGTTGACCCC
CACAGTCTTCTCCTGGTTCTAACTTTTCTATGACAGCAGGAGATTTTCAAGAGATTTTATCAGAATGCA
ATACCTGGGACTGTATTGCTACCTGTTTCTTATAGACACAGCTCACAATGTAATTGATTATATTGATAC
AATATGAAAAATACTCAAGCCAGGTGGAATTTGGATAAATCTAGGTCCTGTGCTGTACCACTTTGAAAAAT
CTGGCAAATGAACTTTCCATAGAAATTGAGCTATGAGGATATAAAAAACGTTGTTCTGCAGTATGGATTCA
AGGTAGAGGTGAAAAAGAATCTGTATTGTCAACATATACTGTGAATGATCTCTCTATGATGAAATACTA
CTATGAATGTGTCTTGTGTGGTCCGTAAGCCACAATAA

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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_152420 unedited NNGGGTTGTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGCG GAGCCCAGCGCGGATGGAGGCTGAGGGTGGCGGGGGCGGAGCGCCGCGAGCTGGGGG CATGTCCGCGGGCGCCGCTCTAGAGGAAGGCCAAGCAGCCGCCACCACGCTGTGCGTC GCGGAGAGACGCAAGCGAGCCAGGCCAGGGCCGCGGCGCGATGCAGCGACGGCGTCG CCTCCGCGCCACCTCCCGCTGCCGAGGGCTGCCGGGGAGGAGGCGGTGGCAGCGAG GAGGTGGAAGTGCAGTTTTCCGCGGGCTTGGGGCTCGGCCGCGCGGTTTTCCGCGGCA GCGGCGCGGCCACGCGCAGCACCGAGGAGGAGGAGAGGCTTGAGCGTGAGCACTTC TGGAAGATCATTAAATGCCTTCCGCTACTACGGCACCAGTATGCATGAGCGGGTGAACCGA ACAGAAAGACAGTTTTCGATCACTTCCAGCTAACCAACAGAAACTACTTCTCAGTTTCTT CTTCACTTGGACAAGATCCGAAATGCATTGATCATAATCAAGAAATACTACTGACCATT GTGAATGATTGCATACATATGTTTAAAAATAAAGAATATGGAGAAGATGGGAATGAAAG ATTATGCCAGCATCTACATTTGACATGGATAAGTTAAAAATCCACGCTGAAACAGTTTGTG AGAGACTGGAGTAAAAGTGGAAAGCAGAAAGGGATGGCCTGTTACCAGCCAATCATTAA AGAAATNTAAAAAATNTCCAAAGAGAGNAGGGGATCCTTNCTAAGTAATATTCTGGTA CCTGGTGTGACTAGGAAGACTGCCCTGGAAAGCTTGGCTAGGNTATGCTTGTACAGGAA TGNATGGGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_152420 unedited GTACCGCGGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCATAGCAATTGGCA GACTTTAATATTCAAAAAATAATTTTCATACACATTAATAATAGGAAATTCAT GCAGACATGAAGCTTCCAATTCAGCTTTTGTGGCAACTTTTAGAATGAGAGTTACATATA AATACAGTACATTTTACAGTTACCAAATTCATAATTTTATACTGTGATTTTACAGCTT CTCCTTATATTGTACATGTTCCACCTTGCTCACTTGATTAGCATACCCTATATCTGCACT GCTTCAGAATATAGAAATTAACAAAAAACATAAGCACAGTGGACTATCTCCTCCATT TCATAAAGTAAATGAAATGTTTGTGTATAAAGCTAATTTAAGAAAAACATTTTAACTT TAAGGCTTACATACTTTAGTAGCTAGGACTAAAATTAAGAAATACAAAGCTAAATAAATC CTCCAGTGATACTTCTATTATTGATTGATACCACATTTTCAAGTTTAGAATATATTAAC GCAAAAGCTGTAAGAAAAGAAGTATGCAAAATTTGTATAGAACATTTAAAAACAATATT CATGATATGAGGGATAAATTAACAAATGAAGTAACTGATTTTCAAGTAACTAAACATA TGCTATAATTTAGAAATTAACATTTAAGGAAACCTAATAGAAAAAATTAATTAAT AAAGCCCACCCACAGTGTCAACCTGTTTTGCCTGTGACAAAAACAAAATCATTGTGTT TGAACAAGTTGGAAAAAGTGAATACTATTGAGTGAATAAAAGCAGGTCTAGCCCTTGAA AAACGCTGGATTCTTTCTGTTTGAATGAGTTTTAAAAAATCCTAAGGTCCTTTGCAGG TCTCTCTCTTAAAAACAAAATTTGGGTTGATTTTTCTCCTCCCTGGCCAAAATTAACC TCCTTTCCGTNAGTAAAGAAATGTTCCACGAAAGACACCCGCACAGTTTGGGGAN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_152420
Insert Size:	4700 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:

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_152420.1](#), [NP_689633.1](#)

RefSeq Size: 2219 bp

RefSeq ORF: 1230 bp

Locus ID: 138199

UniProt ID: [Q8N4J0](#)

Cytogenetics: 9q21.13

Gene Summary: The protein encoded by this gene is a methyltransferase that converts carnosine to anserine, a dipeptide found abundantly in skeletal muscle. The encoded protein can methylate other dipeptides as well. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2016]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.