

Product datasheet for **MC222797**

Carns1 (NM_134148) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Carns1 (NM_134148) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Carns1
Synonyms:	AI790298; Atpgd1; mKIAA1394
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222797 representing NM_134148
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCTGCCTGGATCCACTGGGTACGGAGTGGGACTCCAAGGACCTGGATGAAAGGAAGAACCATGGA
 AAAGCGGTGCTGGCCTGCCACCCACAGGCTGTTCCCTGGGCCCTGGCGCCAGGATATCAGCCTGGATTG
 CAAGGGCTCCCCGGAAGAGACTGAGGCTCGGGCCTGGACTGTGTACTACTACGGTCTCCTTCAGAGTTGT
 CTGAGCAAGCTGGCCTTCTGAGACCCAGGATCGCAGCCAGGCACCTCGTACAGGCTGCCTGGGGCAG
 AGGTGACCTTGTGCACTTGGGTTCTCCAGCACCTTCTATCTCTGTTGCTGGAGGTTGGGTTCCAGAG
 CCCTGAAACATGCTCCTTGCCTGTCCCTGCTGGCTGATGAAGGTGGCAACTCCAGGCCAAGAGGGT
 GAGGCAGTCTGCTGCTCTAAGGCTGTGAGCTTCTATCCAGGGGGCCTGACATTCCTGGATGACTTTG
 TCCCCCTCGGCATGCTACTTACTTCTGCGAGGCTGGGGCCAGAATCTGGCCGTGGCAAGGAGGCAGC
 AGAGCTGGCTCGAATCTCACTTCCCCACAGGAACCTCATCGGAGCTGTCCAGCTGCTGGAGAACCGG
 CTGCTGATGAGGTGGTTGCTGTCCAGCAGAGTGGTGTGGCCGTGCCAGCTACCTGGCTTTCACCTATA
 GGCTCCGGGGTCTTCCGGGAGGGGATGCCAGCCCTGGACTCCGGCTGGTGGAACTCAGTGGGAAGGA
 GGGCCAGGAAACTGTTGAAAGAGGAAGTAGAGGCCCTTGTGCACTCCGAGGCCCTGGGTGATGCTTCA
 CAGGTGGCTGTGAGGCTCAGTGGCTGTGCTGGCGTGGACAGCAGGCATTGCCTCTGCACCTGCGGGTAG
 AGCCATCCACAGTGGTGAACACGGTGTGGGATTGCTGGAGAAGCTGGAGGAGGAGAGTGTCTTGT
 GGAGGCCATGTGCCACCTGTCCGGTGCCTTACCAGGCGTCTGCACCTGGCCCTGAGCTGGCTGTG
 CGTATCTGTGAGTGGTGTGCGGATTCAGGGTATAGGCCCTACTGAGTAAGGTGGTGTGTGGCTGG
 GCGGTGGGATCGACCCGTGCGGCACCACTATCCCTGCCAAGGACACTGAGGGTGGCGCTGGCTCAGTG
 TGGCCTGGAAGAGGAGGCGCAGGTGGCGCTTCTGGAGCAGGGCATCAAAGAAGCAGCCGAAGGCGGTTG
 GCCGCTGTGCTGGCCCTGGAGGCTGACTGAGTGTGGAGCAGCGTGGTGGACGCCAAGTGCACACCGACT
 TCCTCGCGTGGACTTAGTTCTCACGGTATCGGACGCACGCTGACGCCCGTGGTCTTAAGCTGAACAG
 TGGCCTGTGCTAGAGGCTGCGGCGGCTCGAGGGGCTGTGGGCCGTGCCACGCCTAAGACGCTCAGCT
 GAGGAGGCAGCGGCAGCGCCGCTGGTGGAGACTATGCTGCGGCGCTCAGGGGCCACCTCATGGACGGCA
 AGCAGCTGCTGGTATCGGCGCCGGCGGCTCAGCAAGAAGTTCGTGTGGGAGGCGCGCGGGACTACGG
 ACTGACGCTGCACCTGGTGAATCAGACCCCAACCACTTTCATCCCACTGGTACAGACCTTTATCCAC
 TTTGATGTGACTGAGCACCGGAGGGATGAGGAGAATGCGCTGCTGCTGGCTGAGCTGGTACGGGCCCGGA
 ACCTGAAGCTAGATGGCTGCTTCTCCTTCTGGGATGACTGCTTGGTGTACTGCTCCTCTGCCGTGA
 GCTGGGTCTGCCCTGCAGCCCCCAGCTGCCATGTGCTTGGCAAAGCAGAAGAGCCGCACACAGCTACAT
 CTGTTGCGGTGCCAGGGCCACCCTGGCCTTCGACCTCTCTCCATGCTGTGGCCTGTTGCCATTGGAGA
 ATGAGGCTGATGTGGAGAGAGCCATTTACCAGGTACCCCTGCCAGGTGTGATGAAACTGGAATTTGGGTC
 AGGAGCAGTAGGCGTGCAGCTGGTGAAGGATGGGCCCCAGTGGCGTGGCACTTTTCCGGATCCTCCAT
 GACCTGCAGGGTGAAGCTGACCACCTGGCATCGGGCTGGGCTGGGGCAATGCTATGCTGCTGATGGAGT
 TTGTTGAGGGCACAGAGCATGACGTGGACCTGGTGGTGTTCGGTGGACGGTTGCTGGCTGCTTTCGTC
 CGATAATGGCCCCACAAGGCTGCCTGGCTTACAGAGACTGCAGCCTGCATGCCACTGGGCTAGCACCA
 GAGCAGGAGGCCAGGTGGTGCAGGCAGCCTTTCGCTGCTGCCTGGGCTGTGGGCTGCTGGATGGGTTT
 TCAATGTGGAGCTCAAGATGACTGGGGCTGGGCCAAGGCTCATCGAGATTAACCCCTGAATGGGAGGCTT
 CTACCTTCGAGACTGGATCCTAGAGCTCTATGGTGTGGATTTGCTTCTGGCTTCTACAATGGTGGCCTGT
 GGCCTGCAGCCTGCCTTGCCTGCTCACCCTCGTCCCCTGGCTACCTAGTGGGCATCATGTGCTGGTGT
 CCCAGCACCTACAGCTGCTGAGTTCCTCCAGCAGTAGAGAGACTCTGCAAACCTCCATGACCAGGGGCA
 ATTACGACTCAACCTGCTGGAGGAGGCCCTGATACCTGGCCAGTATGAGGAGCCCTACTGCAATGTGGCC
 TGTGCTGGGCCAGCCCTGCTGAGGCTGTACCCTGCTAGGCATCTGTCAGGGCTTGGGCATTGACA
 GGCCAACTACCCTGTTGCCATTTCTGTCTCATTTCAA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:	NM_134148
Insert Size:	2844 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_134148.2</u> , <u>NP_598909.2</u>
RefSeq Size:	3968 bp
RefSeq ORF:	2844 bp
Locus ID:	107239
Cytogenetics:	19 A
Gene Summary:	Catalyzes the synthesis of carnosine and homocarnosine. Carnosine is synthesized more efficiently than homocarnosine.[UniProtKB/Swiss-Prot Function]