

## Product datasheet for SC211852

### CARNS1 (NM\_001166222) Human 3' UTR Clone

#### Product data:

|                           |                                                                                                                                                                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | 3' UTR Clones                                                                                                                                                                                                                                            |
| Product Name:             | CARNS1 (NM_001166222) Human 3' UTR Clone                                                                                                                                                                                                                 |
| Symbol:                   | CARNS1                                                                                                                                                                                                                                                   |
| Synonyms:                 | ATPGD1                                                                                                                                                                                                                                                   |
| Mammalian Cell Selection: | Neomycin                                                                                                                                                                                                                                                 |
| Vector:                   | pMirTarget (PS100062)                                                                                                                                                                                                                                    |
| ACCN:                     | NM_001166222                                                                                                                                                                                                                                             |
| Insert Size:              | 1033 bp                                                                                                                                                                                                                                                  |
| Insert Sequence:          | <p>&gt;SC211852 3'UTR clone of NM_001166222</p> <p>The sequence shown below is from the reference sequence of NM_001166222. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p> |

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GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAACGATCGCC
GTTGCCCACTTCTGTCTCACTTCAAAAGCACTGGGGTCAGGGGGCAGGGAAGCAGTGCTGGGTGGAG
GCACTGTGGTGCCTCTGCTCCCTGGAGCTTCTCTCTCTCCCATCACCATGCCCCAGCCCCAG
CCTGGCCCGCTGCAATGCCTAGGTCTGTTCCAGAGCAGCAGGGCAATTTAGACACCAAGGCATCCTGGA
CTCAAGGGCCTCTTGCCCTCCCGAAGGCCCGAGTCCAGCCTACAGCTTCCCAGCATTCTAGCCTTGGA
GAAATGACAATGGCCACACACACACACACACACACACACACCTCTGACGCCAGTCCCCAGGTGG
GAGTGGGCCCCAAACCCAGCCCCTCTGTCCACCTCTCCAGGTCTCACTCTCTTCTGCCATCTACAAGA
GGAGAGGACCTGGCTGGGCCCCAAGCCTTGACAAATCCTGGGAAAACCTGAGACTAGAACCCTTGCTCT
TCCTCTTACCCAAATTCTAGGATAGCTCTGAAGCCTGCTGGAACTTGGTGGCATCCAACCTGCCTCAT
TCGGCCTGACCGGTAGAGGCAGGTGGCCTGTGGACAGAAGTAATCCTCTTCTGCTCACCCAGGCAGA
CACAACCTGCCTATGTTCCCCGATGAGAGGAAACAGGCTGAGAGAAGAAAAATGACTGCTCCAGGATTA
TACCACAGTGGAGAGCGGTACAGGACATGATGCAGGGTCCAGGTTTCTGTTTTGATCAAGTCTTACA
TGCCCATTCAGCTTCTAGGCCCCCTCACCTCCCTGCCCTCATTACAAGTGCCCTGAGACACGTGAA
CAGCTCCCTCCTATGCATCACAACCTTCTCCACCGAGCTTGGTGCTTTGGCCTCTGGCACACCTAAC
TAGCATTGGCAGAGGAGAGTCTACACTCTCTTCTCATTACAGGGAAGATGCTTTAAGAAATCCTGCCTC
TGTGCAGCAGAGGAGCTGGAGGCAGTCCCCAGGCATCCCTCCCCAAATAAAGGCTTATGTACTGGT
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG

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Restriction Sites: SgfI-MluI



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|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b> | Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).                                                        |
| <b>Components:</b>     | The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.                                                                                                                                                    |
| <b>RefSeq:</b>         | <u><a href="#">NM_001166222.2</a></u>                                                                                                                                                                                                                                                                                                             |
| <b>Summary:</b>        | CARNS1 (EC 6.3.2.11), a member of the ATP-grasp family of ATPases, catalyzes the formation of carnosine (beta-alanyl-L-histidine) and homocarnosine (gamma-aminobutyryl-L-histidine), which are found mainly in skeletal muscle and the central nervous system, respectively (Drozak et al., 2010 [PubMed 20097752]).[supplied by OMIM, Apr 2010] |
| <b>Locus ID:</b>       | 57571                                                                                                                                                                                                                                                                                                                                             |
| <b>MW:</b>             | 38                                                                                                                                                                                                                                                                                                                                                |