

Product datasheet for **SC122270**

CART (CARTPT) (BC029882) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | CART (CARTPT) (BC029882) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | CART |
| Synonyms: | CART; CART prepropeptide; cocaine- and amphetamine-regulated transcript; cocaine and amphetamine regulated transcript |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene sequence for BC029882 edited GGTTGACCCGGGCCCTCCTCCACACCCCTTCTTCTTCGCCTCCTCCCTCTTTCTGCA CGGGGGCTCGGGCTCACTATAAAAGGTGGGAGCGCGTGGTGCCCCAGCAACGACGAGTTT CAGAACGATGGAGAGCTCCCGCGTGAGGCTGCTGCCCTCCTGGGCGCCGCCCTGCTGCT GATGCTACCTCTGTTGGGTACCCGTGCCAGGAGGACCCGAGCTCCAGCCCCGAGCCCT GGACATCTACTCTGCCGTGGATGATGCCTCCCACGAGAAGGAGCTGATCGAAGCGCTGCA AGAAGTCTTGAAGAAGCTCAAGAGTAAACGTGTTCCCATCTATGAGAAGAAGTATGGCCA AGTCCCCATGTGTGACGCCGGTGAAGAGTGTGCAAGTGAAGAAAGGGCAAGGATCGGGAA GCTGTGTGACTGTCCCGAGGAACCTCCTGCAATTCCTTCTCCTGAAGTGCTTATGAAG GGGCGTCCATTCTCCTCCATACATCCCCATCCCTCTACTTTCCCCAGAGGACCACACCTT CCTCCCTGGAGTTTGGCTTAAGCAACAGATAAAGTTTTTATTTTCTCTGAAGGGAAAGG GCTTTTTCTGCTGTTTCAAAAATAAAGAACACATTAGAAAAAAAAAAAAAAAAAAAAA AAAAAAAAA |



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| 5' Read Nucleotide Sequence: | >OriGene 5' read for BC029882 unedited NNNNNAAGTTCGCATTTGTATACGACTCATATAGGCGGCCGCGATTCCCGGNTGGTTGAC CCGGGCCCTCCTCCACACCCCCTTCCTTCTTCGCCTCCTCCCTCTTTCCTGCACGGGGGC TCGGGCTCACTATAAAAGGTGGGAGCGCGTGGTGCCCCAGCAACGACGAGTTTCAGAACG ATGGAGAGCTCCCGCGTGAGGCTGCTGCCCTCCTGGGCGCCGCCTGCTGCTGATGCTA CCTCTGTTGGGTACCCGTGCCAGGAGGACGCCGAGCTCCAGCCCGAGCCCTGGACATC TACTCTGCCGTGGATGATGCCTCCACGAGAAGGAGCTGATCGAAGCGCTGCAAGAAGTC TTGAAGAAGCTCAAGAGTAAACGTGTTCCCATCTATGAGAAGAAGTATGGCCAAGTCCCC ATGTGTGACGCCGTGAGCAGTGTGCAAGTGAAGAAAGGGCAAGGATCGGGAAGCTGTGT GACTGTCCCCGAGGAACCTCCTGCAATTCCTTCTCCTGAAGTGCTTATGAAGGGGCGTC CATTCTCTCCATACATCCCATCCCTCTACTTCCCCAGAGGACCACACCTTCTCCCT GGAGTTTGGCTTANGCAACAGATAAAGTTTTTATTTTCTCTGAAGGAAAGGGCTCTTT TCCTGCTGTTTCAAAAATAAAGAACACATTNGNNAAAAAAAAAANNAANAAAAANNNN NNGGGGCGGCCGGTGCATAGCTGTTTCTGAACAGATCCCGGNTGGCATCCCTGTGACC CCTCCCCAGTGCCTCCTGGCCCTGGAAGTGCCACTCCAGTGCCACCAGCCCTGTCTCT AATAAAATAAAGTGCATCATTTTGTCTGACTAGGTGCCTTCTA |
| Restriction Sites: | Please inquire |
| ACCN: | BC029882 |
| Insert Size: | 669 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>BC029882.1</u> , <u>AAH29882.1</u> |
| RefSeq Size: | 669 bp |
| Locus ID: | 9607 |
| Cytogenetics: | 5q13.2 |
| Protein Families: | Secreted Protein |

Gene Summary:

This gene encodes a preproprotein that is proteolytically processed to generate multiple biologically active peptides. These peptides play a role in appetite, energy balance, maintenance of body weight, reward and addiction, and the stress response. Expression of a similar gene transcript in rodents is upregulated following administration of cocaine and amphetamine. Mutations in this gene are associated with susceptibility to obesity in humans. [provided by RefSeq, Feb 2016]