

Product datasheet for **SC319340**

MCART1 (SLC25A51) (NM_033412) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCART1 (SLC25A51) (NM_033412) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCART1
Synonyms:	CG7943; MCART1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_033412.2
 GCGGGCCCCGGCTCGCTAGCCGTCCTGCGGGACGCCGGCGCTGATGGGAAATCCAGTTAT
 CAAAATTGACTCAAGAAGAGAGAACCTAACAGAACAAATGGAAGAAATGGGAAC
 ATTATCACAAGCTATCATCCTGCCAACTCCAGGCTCAGATGTCACAGGTTAAAAAAG
 TCCTTCATGAAAAAGAAAGATCTTAAGCAGCATGATGGATTGAGAAGCTCATGAAAAGAG
 GCCACCAATACTAACATCTTCAAAACAAGATATATCACCTCATATTACAAATGTTGGTGA
 GATGAAGCATTACTTGTGTGGCTGCTGTGCAGCCTTCAACAATGTCGCAATCACATTTCC
 CATTGAGAAGGTCTCTTTTCGACAAACAGCTGTATGGCATCAAAACCCGGGATGCAATACT
 TCAGTTGAGAAGGGATGGATTTTGAAATTTGTATCGTGGAATCCTTCCCCATTGATGCA
 GAAGACAACCTACGCTTGCACTTATGTTTGGTCTGTATGAGGATTATCCTGCCTTCTCCA
 CAAGCATGTCAGTGCTCCAGAGTTTGCAACCAAGTGGCGTGGCGGAGTGCTTGCAAGGAC
 AACAGAAGCAATTTTCACTCCACTGGAAGAGTTCAGACATTGCTTCAAGACCACAAGCA
 TCATGACAAATTTACCAACACTTACCAGGCTTTCAAGGCACTGAAATGTCATGGAATTGG
 AGAGTATTATCGAGGCTTGGTGGCCATTCTTTCCGGAATGGAAGTCAAGCAATGCTTGT
 TTTTCGGCTTCGAGGTCCATTAAAGGAGCATCTGCCTACCGCAACGACTCACAGTGCTCA
 TCTGGTCAATGATTTTATCTGTGGAGGTCTATTGGGTGCCATGTTGGGATTCTTGTTTTT
 TCCAATTAATGTTGTAATAAACTCGCATACAGTCTCAGATTGGTGGGAATTTTCACTCTT
 CCCCAGGTTTTCAAAAAATCTGGCTGGAACGGGACAGAAAACTGATAAATCTTTTCAG
 AGGTGCCCATCTGAATTACCATCGGTCCCTCATCTCTTGGGCGATAATCAATGCAACTTA
 TGAGTTCTTGTTAAAGGTTATATGAAAAAACCATCAGTTAAGTGCCATTTATCAACTGAA
 TAGACCTTCTAAGAAGATGCAGTTTGGCTCTTTTTTTTTTTTTTAAAGGAAATCCC
 AATCTTATTATGGAAGCCATCAACTGGGTGTGGGAGTAGGTCAGAGGGTTAGTGAAAG
 TCCAGGGGATTTCTCTCCAAGTCTACACACAAAGGAAAGTCTCAAGCCTCTATTAC
 CCTTTCTCAATCCTCACAAAATAGGGGGTTGTTCAATATTGTCTTCAATGATAAAAACTT
 TGTGGTAAAAAGTTTCTCTTAGGACTAGTGACAAAGTTAGGCTTATACTTTTTTTTTTT
 TTTGAGGCAGAGTCTTGCTCTGTGCCCAGGCTGGAGTGCAGTGGCGCGATCTTGCTCA
 CTGCAACCTCCGCTCCAGGTTCCGGCAATTCTCTGCCTTAGCCTCCTGTAGTCTAG
 CTGCTCGGGAGGCTGAGGCAGGAGAATCTTTCTTAATTGGCCAAATATAAGTTGGTGT
 CGTAACCTCCAGGCCACAGTGAGTTATGGGCAAAGCTTTTTTCTTAAGCATCAACAAAT
 AGGATAAAAGGTCCAATAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_033412

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_033412.2, NP_219480.1</u>
RefSeq Size:	1397 bp
RefSeq ORF:	894 bp
Locus ID:	92014
UniProt ID:	<u>Q9H1U9</u>
Cytogenetics:	9p13.2-p13.1
Gene Summary:	Mitochondrial membrane carrier protein that mediates the import of NAD(+) into mitochondria (PubMed:32906142). Mitochondrial NAD(+) is required for glycolysis and mitochondrial respiration (PubMed:32906142). Compared to SLC25A52, SLC25A51-mediated transport is essential for the import of NAD(+) in mitochondria (PubMed:32906142). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the shortest transcript and encodes the functional protein.