

Product datasheet for **RC215808**

MCART2 (SLC25A52) (NM_001034172) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCART2 (SLC25A52) (NM_001034172) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCART2
Synonyms:	MCART2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215808 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATAGATTCAGAAGCTCATGAAAAGAGGCCACCAATACTTACATCTTCAAACAAGATATATCACCTC
ATATTACAAATGTTGGTGAATGAAGCATTACTTGTGTGGCTGCTGTGCAGCCTTCAACAACGTGCAAT
CACATATCCATTGAGAAGGTCTCTTTTCGGCAACAGCTGTATGGCATCAAACCCGGGATGCAGTACTT
CAGTTGAGAAGGGATGGATTTGAAATTTGTATCGTGGAATCCTTCCCCATTGATGCAGAAGACA
CGCTTGCACTTATGTTTGGTCTGTATGAGGATTTATCCTGCCTTCTCCGGAAGCATGTCCGTGCTCCAGA
GTTTGCAACCCATGGCGTGGCGGAGTGTGTCAGGGACAGCAGAAGCAATTTTCACTCCACTGGAAAGA
GTTTCAGACATTGCTTCAAACCAAGCATCATGACAAATTTACCAACACTTATCAGGCTTTCAAGGCAC
TGAAATGTCATGGAATTGGAGAGTATTATCGAGGCTTGGTGGCCATTCTTTCCGGAATGGACTCAGCAA
TGTCTTGTTTTTCGGCTTCGAGGTCCCATTAAGGAGCATCTGCCTACCGCAACGACTCACAGTGCTCAT
TTGGTCAATGATTTTATCGGTGGAGTCTATTGGGTGCCATGTTGGGATCTTGTGTTTTCAATTAATG
TTGTA AAAACTCGCATACAGTCTCAGATTGGTGGGAAATTCAGTCTTCCCAAGGTTTTCAAAAAAT
CTGGCTGGAACGGGACAGAAAATGATAAATCTTTTCAGAGGTGCCATCTGAATTACCATCGGTCCCTC
ATCTCTGGGGCATAATCAATGCAACTTATGAGTCTTGTAAAAATTTATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215808 protein sequence
Red=Cloning site Green=Tags(s)

MIDSEAHEKRPPILTSSKQDISPHITNVGEMKHYLCGCCAAFNNVAITYPIQKVLFRQQLYGIKTRDAVL
 QLRRDGFNLYRGILPPLMQKTTTLALMFGLYEDLSCLLRKHVRAPEFATHGVAAVLAGTAEAIPTPLER
 VQTL LQNHHKHKDFNTNTYQAFKALKCHGIGEYRGLVPILFRNGLSNVLF FGLRGP I KEHLPTATTHSAH
 LVNDFIGGGLLGAMLGFLCFPINVVKTRIQSQIGGEFQSFPKVFQKIWLERDRKLINLFRGAHLNYHRSL
 ISWGIINATYEFLLKFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6448_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001034172

ORF Size: 891 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001034172.1](#), [NP_001029344.1](#)

RefSeq Size: 1185 bp

RefSeq ORF: 894 bp

Locus ID: 147407

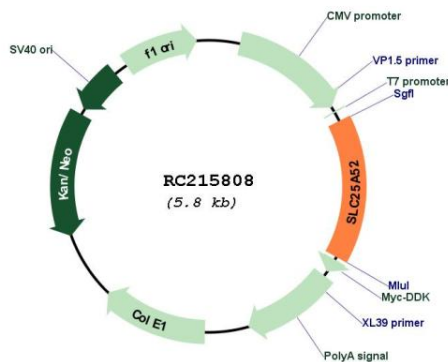
UniProt ID: [Q3SY17](#)

Cytogenetics: 18q12.1

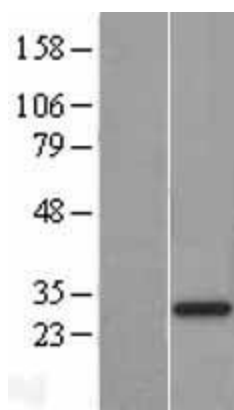
MW: 33.7 kDa

Gene Summary: This gene is similar to the mitochondrial carrier triple repeat 1 gene on chromosome 9. The gene is intronless and may be an evolving pseudogene; however, it is transcribed and it contains a full-length coding region so it is currently classified as a protein-coding locus. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC215808



Western blot validation of overexpression lysate (Cat# [LY421957]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215808 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).