OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC208960

SLC25A28 (NM_031212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A28 (NM_031212) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC25A28
Synonyms:	MFRN2; MRS3/4; MRS4L; NPD016
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208960 representing NM_031212
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTTGGAGGGGCGGGGTGCTGGCGGTGTGGCGGGGGGGCCGGCGGCAGGGCCCGGGCGGAGCCCCG
GGGAGTCGGCGCTGCTGGACGGGTGGCTGCAGCGGGGCGTGGGCCGGGGGGCCGGCGGCGGGGAGGCCGG
GGCCTGCAGGCCCCCGGTACGACAAGATCCGGACTCCGGCCCGGACTACGAGGCGCTGCCGGCTGGAGCC
ACTGTCACCACGCACATGGTGGCAGGCGCCGTGGCAGGGATCCTGGAGCACTGCGTGATGTACCCCATCG
ACTGCGTCAAGACCCGGATGCAGAGTCTACAGCCTGACCCAGCTGCCCGCTATCGCAATGTGTTGGAGGC
CCTCTGGAGGATTATAAGAACGGAGGGCCTATGGAGGCCCATGAGGGGGCTGAACGTCACAGCAACAGGC
GCAGGGCCTGCCCACGCCCTTTATTTTGCCTGCTACGAAAAGTTAAAAAAGACATTGAGTGATGTAATCC
ACCCTGGGGGCAATAGCCATATTGCCAATGGTGCGGCCGGGTGTGTGGCAACATTACTTCATGATGCAGC
CATGAACCCTGCGGAAGTGGTCAAGCAGAGGATGCAGATGTACAACTCACCATACCACCGGGTGACAGAC
TGTGTACGGGCAGTGTGGCAAAATGAAGGGGCCGGGGCCTTTTACCGCAGCTACACCACCCAGCTGACCA
TGAACGTTCCTTTCCAAGCCATTCACTTCATGACCTATGAATTCCTGCAGGAGCACTTTAACCCCCAGAG
ACGGTACAACCCAAGCTCCCACGTCCTCTCTGGAGCTTGCGCAGGAGCTGTAGCTGCCGCAGCCACAACC
CCACTGGACGTTTGCAAAACACTGCTCAACACCCAGGAGTCCTTGGCTTTGAACTCACACATTACAGGAC
ATATCACAGGCATGGCTAGTGCCTTCAGGACGGTATATCAAGTAGGTGGGGTGACCGCCTATTTCCGAGG
GGTGCAGGCCAGAGTAATTTACCAGATCCCCTCCACAGCCATCGCATGGTCTGTGTATGAGTTCTTCAAA
TACCTAATCACTAAAAGGCAAGAAGAGTGGAGGGCTGGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC208960 representing NM_031212
Red=Cloning site Green=Tags(s)

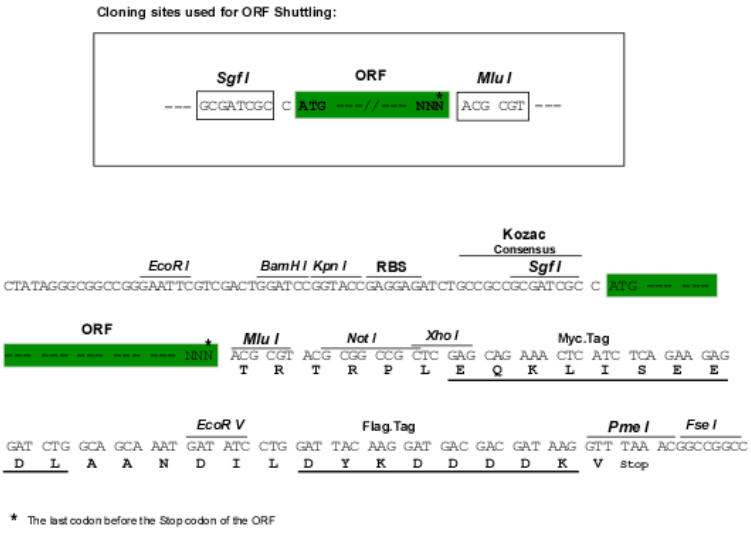
MELEGRGAGGVAGGPAAGPGRSPGESALLDGWLQRGVGRGAGGGEAGACRPPVRQDPDSGPDYEALPAGA
TVTTHMVAGAVAGILEHCVMYPIDCVKTRMQSLQPDPAARYRNVLEALWRIIRTEGLWRPMRGLNVTATG
AGPAHALYFACYEKLKKTLSDVIHPGGNSHIANGAAGCVATLLHDAAMNPAEVVKQRMQMYNSPYHRVTD
CVRAVWQNEGAGAFYRSYTTQLTMNVPFQAIHFMTYEFLQEHFNPQRRYNPSSHVLSGACAGAVAAAATT
PLDVCKTLLNTQESLALNSHITGHITGMASAFRTVYQVGGVTAYFRGVQARVIYQIPSTAIAWSVYEFFK
YLITKRQEEWRAGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3818_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031212

ORF Size: 1092 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_031212.4

RefSeq Size: 1584 bp

RefSeq ORF: 1095 bp

Locus ID: 81894

UniProt ID: Q96A46

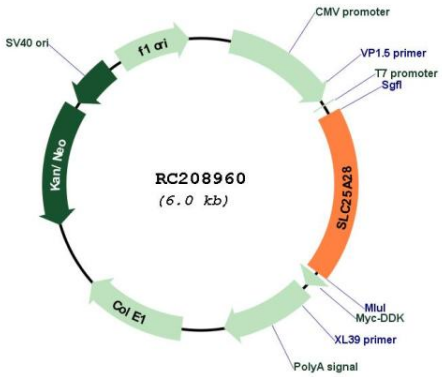
Cytogenetics: 10q24.2

Domains: mito_carr

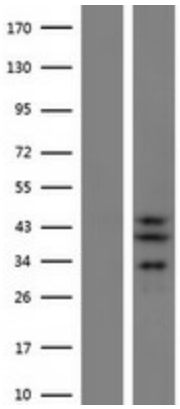
MW: 39.1 kDa

Gene Summary: Mitochondrial iron transporter that mediates iron uptake. Probably required for heme synthesis of hemoproteins and Fe-S cluster assembly in non-erythroid cells. The iron delivered into the mitochondria, presumably as Fe(2+), is then probably delivered to ferrochelatase to catalyze Fe(2+) incorporation into protoprophyrin IX to make heme (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC208960



Western blot validation of overexpression lysate (Cat# [LY410591]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208960 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).