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Product datasheet for RC203660

SLC25A39 (NM_016016) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A39 (NM_016016) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC25A39
Synonyms:	CGI-69; CGI69
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203660 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGACCAGGACCCTGCGGGCATCAGCCCCCTCCAGCAAATGGTGGCCTCAGGCACCGGGGCTGTGG
TTACCTCTCTCTTCATGACACCCCTGGACGTGGTGAAGGTTCGCCTGCAGTCTCAGCGGCCCTCCATGGC
CAGCGAGCTGATGCCTTCCTCCAGACTGTGGAGCCTCTCCTATACCAAATGGAAGTGCCTCCTGTATTGC
AATGGTGTCCTGGAGCCTCTGTACCTGTGCCCAAATGGTGCCCGCTGTGCCACCTGGTTTCAAGACCCTA
CCCGCTTCACTGGCACCATGGATGCCTTCGTGAAGATCGTGAGGCACGAGGGCACCAGGACCCTCTGGAG
CGGCCTCCCCGCCACCCTGGTGATGACTGTGCCAGCTACCGCCATCTACTTCACTGCCTATGACCAACTG
AAGGCCTTCCTGTGTGGTCGAGCCCTGACCTCTGACCTCTACGCACCCATGGTGGCTGGCGCGCTGGCCC
GCCTGGGCACCGTGACTGTGATCAGCCCCCTGGAGCTTATGCGGACAAAGCTGCAGGCTCAGCATGTGTC
GTACCGGGAGCTGGGTGCCTGTGTTCGAACTGCAGTGGCTCAGGGTGGCTGGCGCTCACTGTGGCTGGGC
TGGGGCCCCACTGCCCTTCGAGATGTGCCCTTCTCAGCCCTGTACTGGTTCAACTATGAGCTGGTGAAGA
GCTGGCTCAATGGGCTCAGGCCGAAGGACCAGACTTCTGTGGGCATGAGCTTTGTGGCTGGTGGCATCTC
AGGGACGGTGGCTGCAGTGCTGACTCTACCCTTTGACGTGGTAAAGACCCAACGCCAGGTCGCTCTGGGA
GCGATGGAGGCTGTGAGAGTGAACCCCCTGCATGTGGACTCCACCTGGCTGCTGCTGCGGAGGATCCGGG
CCGAGTCGGGCACCAAGGGACTCTTTGCAGGCTTCCTTCCTCGGATCATCAAGGCTGCCCCCTCCTGTGC
CATCATGATCAGCACCTATGAGTTCGGCAAAAGCTTCTTCCAGAGGCTGAACCAGGACCGGCTTCTGGGC
GGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203660 protein sequence
Red=Cloning site Green=Tags(s)

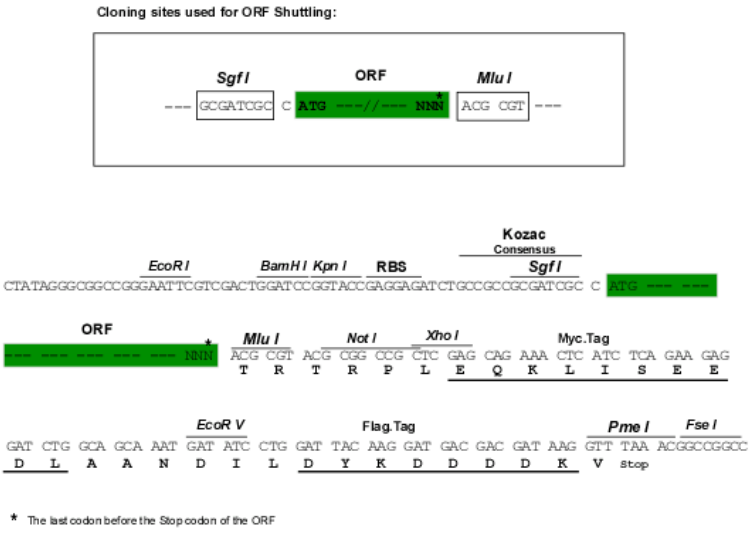
MADQDPAGISPLQQMVASGTGAVVTSLFMTPLDVVKVRLQSQRPSMASELMPSSRLWSLSYTKWKCLLYC
NGVLEPLYLCPNGARCATWFQDPTRFTGTMDAFVKIVRHEGTRTLWSGLPATLVMTVPATAIYFTAYDQL
KAFLCGRALTSDLYAPMVAGALARLGTVTVISPLELMRTKLQAQHVSYRELGACVRTAVAQGGWRSLWLG
WGPTALRDVPFSALYWFNYELVKSWLNGLRPKDQTSVGMSFVAGGISGTVAAVLTLPFDVVKTQRQVALG
AMEAVRVNPLHVDSTWLLLRRIRAESGTKGLFAGFLPRIIKAAPSCAIMISTYEFGKSFFQRLNQDRLLG
G

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6424_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016016

ORF Size: 1053 bp

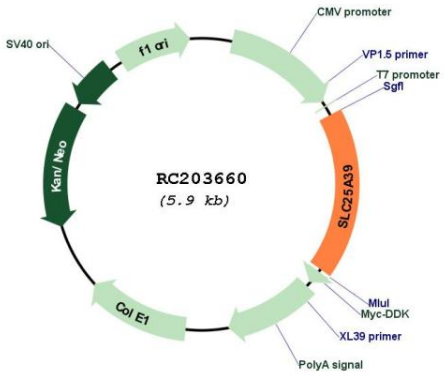
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

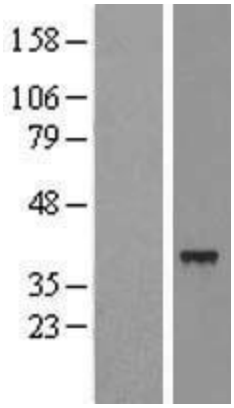
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_016016.3
RefSeq Size:	1604 bp
RefSeq ORF:	1056 bp
Locus ID:	51629
UniProt ID:	Q9BZJ4
Cytogenetics:	17q21.31
Domains:	mito_carr
Protein Families:	Transmembrane
MW:	38.5 kDa
Gene Summary:	This gene encodes a member of the SLC25 transporter or mitochondrial carrier family of proteins. Members of this family are encoded by the nuclear genome while their protein products are usually embedded in the inner mitochondrial membrane and exhibit wide-ranging substrate specificity. Although the encoded protein is currently considered an orphan transporter, this protein is related to other carriers known to transport amino acids. This protein may play a role in iron homeostasis. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RC203660



Western blot validation of overexpression lysate (Cat# [LY414255]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203660 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).