

Product datasheet for **RC223739**

SLC25A25 (NM_001006642) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A25 (NM_001006642) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC25A25
Synonyms:	MCSC; PCSCL; SCAMC-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC223739 representing NM_001006642
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGCAGATGCTGTGGCATTTCCTAGCTAGCTTTTTCCCAGGGCTGGGTGCCACGGCTCCAGAGAGG
 GGGACGATCGTGAAGTCAGAGGCCACCCAGCCCTGCCTGGAGAGACCAGATGGCAAGCTTTTTGGGGAA
 ACAGGACGGAAGGGCTGAGGCCACGGAAGAACCCACCATTTTCTGTTGGTGGACCTGCAGAGCAG
 TTTCTAAGAAAATTGTACAAGCTGGAGATAAGGACCTTGATGGGCAGCTAGACTTTGAAGAATTTGTCC
 ATTATCTCCAAGATCATGAGAAGAAGCTGAGGCTGGTGTAAAGAGTTTGGACAAAAGAATGATGGACG
 CATTGACGCGCAGGAGATCATGCAGTCCCTGCGGGACTTGGGAGTCAAGATATCTGAACAGCAGGCAGAA
 AAAATTCTCAAGAGCATGGATAAAAACGGCAGCATGACCATTGACTGGAACGAGTGGAGAGACTACCACC
 TCCTCCACCCCGTGGAAAACATCCCGAGATCATCTCTACTGGAAGCATTCCACGATCTTTGATGTGGG
 TGAGAATCTAACGGTCCCGGATGAGTTCACAGTGGAGGAGAGGCAGACGGGGATGTGGTGGAGACACCTG
 GTGGCAGGAGGTGGGGCAGGGCCGTATCCAGAACCTGCACGGCCCCCTGGACAGGCTCAAGGTGCTCA
 TGCAGGTCCATGCCTCCCGCAGCAACAACATGGGCATCGTTGGTGGCTTCACTCAGATGATTCGAGAAGG
 AGGGGCCAGGTCACTCTGGCGGGCAATGGCATCAACGCTCTCAAAATGCCCCGAATCAGCCATCAAA
 TTCATGGCCTATGAGCAGATCAAGCGCCTTGTGGTAGTGACCAGGAGACTCTGAGGATTCACGAGAGGC
 TTGTGGCAGGGTCTTGGCAGGGGCCATCGCCAGAGCAGCATCTACCAATGGAGGTCTGAAGACCCG
 GATGGCGCTGCGGAAGACAGGCCAGTACTCAGGAATGCTGGACTGCGCCAGGAGGATCTGGCCAGAGAG
 GGGGTGGCCGCTTCTACAAAGGCTATGTCCCAACATGCTGGGCATCATCCCTATGCCGCATCGACC
 TTGCAGTCTACGAGACGCTCAAGAATGCCTGGCTGCAGCACTATGCAGTGAACAGCGCGGACCCCGCCT
 GTTTGTGCTCCTGGCCTGTGGCACCATGTCCAGTACCTGTGGCCAGCTGGCCAGCTACCCCTGGCCCTA
 GTCAGGACCCGGATGCAGGCGCAAGCCTCTATTGAGGGCGCTCCGGAGGTGACCATGAGCAGCCTTTCA
 AACATATCTGCGGACCGAGGGGCTTGGGGTGTACAGGGGGCTGGCCCCAATTCATGAAGGTCAT
 CCCAGCTGTGAGCATCAGCTACGTGGTCTACGAGAACCTGAAGATCACCCCTGGGCGTGCAGTCGCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223739 representing NM_001006642
 Red=Cloning site Green=Tags(s)

MLQMLWHFLASFFPRAGCHSREGDDREVRGTPAPAWRDQMASFLGKQDGRAEATEKRPTILLVVGPAEQ
 FPKKIVQAGDKLDGQLDFEEFVHYLQDHEKLRRLVFKSLDKKNDGRIDAQEIMQSLRDLGVKISEQQAE
 KILKSMKNGTMTIDWNEWRDYHLLHPVENIPEIILYWKHSTIFDVGENLTVPDEFVTEERQTGMWWRHL
 VAGGGAGAVSRTCTAPLDRLKVLQVHASRSNNMGIVGGFTQMIREGGARSLWRGNGINVLKIAPESAIAK
 FMAYEQIKRLVGSQDQETLRIHERLVAGSLAGAIQSSIYPMEVLKTRMALRKTGQYSGMLDCARRILARE
 GVAIFYKGYVPNMLGIIPYAGIDLAVYETLKNAWLQHYAVNSADPGVFVLLACGMSSTCGQLASYPLAL
 VRTRMQAQASIEGAPEVTMSSLFKHILRTEGAFGLYRGLAPNFMKVIPAVSISYVVYENLKITLVQVSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

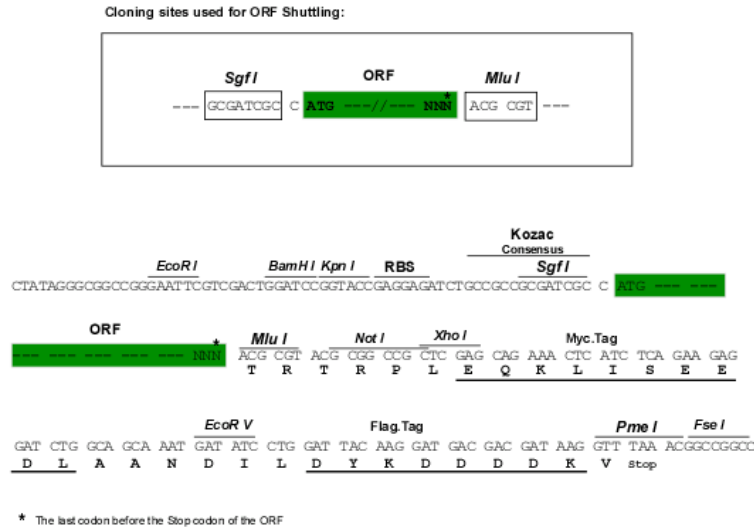
Chromatograms:

https://cdn.origene.com/chromatograms/mk8062_h11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001006642

ORF Size: 1467 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_001006642.2](#)

RefSeq Size: 3293 bp

RefSeq ORF: 1470 bp

Locus ID: 114789

UniProt ID: [Q6KCM7](#)

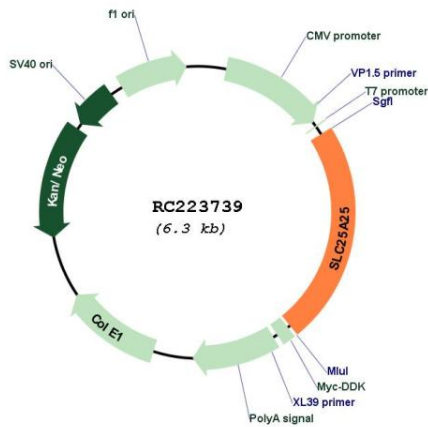
Cytogenetics: 9q34.11

Protein Families: Druggable Genome

MW: 54.5 kDa

Gene Summary: The protein encoded by this gene belongs to the family of calcium-binding mitochondrial carriers, with a characteristic mitochondrial carrier domain at the C-terminus. These proteins are found in the inner membranes of mitochondria, and function as transport proteins. They shuttle metabolites, nucleotides and cofactors through the mitochondrial membrane and thereby connect and/or regulate cytoplasm and matrix functions. This protein may function as an ATP-Mg/Pi carrier that mediates the transport of Mg-ATP in exchange for phosphate, and likely responsible for the net uptake or efflux of adenine nucleotides into or from the mitochondria. Alternatively spliced transcript variants encoding different isoforms with a common C-terminus but variable N-termini have been described for this gene. [provided by RefSeq, Jul 2012]

Product images:



Circular map for RC223739