

Product datasheet for **RG234299**

SLC25A25 (NM_001265614) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A25 (NM_001265614) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC25A25
Synonyms:	MCSC; PCSCL; SCAMC-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234299 representing NM_001265614
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTGCAGATGCTGTGGCATTTCCTAGCTAGCTTTTTCCCAGGGCTGGGTGCCACGGCTCCAGAGAGG
 GGGACGATCGTGAAGTCAGAGGCCACCCAGCCCTGCCTGGAGAGACCAGATGGCAAGCTTTTTGGGGAA
 ACAGGACGGAAGGGCTGAGGCCACGGAAGAACCCACCATTTCCTGCTGGTGGTGGACCTGCAGAGCAG
 TTTCTAAGAAAATTGTACAAGCTGGAGATAAGGACCTTGATGGGCAGCTAGACTTTGAAGAATTTGTCC
 ATTATCTCCAAGATCATGAGAAGAAGCTGAGGCTGGTGTAAAGAGTTTGGACAAAAGAATGATGGACG
 CATTGACGCGCAGGAGATCATGCAGTCCCTGCGGGACTTGGGAGTCAAGATATCTGAACAGCAGGCAGAA
 AAAATTCTCAAGAGAATACGAACGGGCCATTTCTGGGGCCCTGTCACCTACATGGATAAAAAACGGCAGCA
 TGACCATCGACTGGAACGAGTGGAGAGACTACCACCTCCTCCACCCCGTGGAAAACATCCCCGAGATCAT
 CCTCTACTGGAAGCATTCCACGATCTTTGATGTGGGTGAGAATCTAACGGTCCCGGATGAGTTCACAGTG
 GAGGAGAGGCAGACGGGGATGTGGTGGAGACACCTGGTGGCAGGAGGTGGGGCAGGGGCCGTATCCAGAA
 CCTGCACGGCCCCCTGGACAGGCTCAAGGTGCTCATGCAGGTCCATGCCTCCCAGCAACAACATGGG
 CATCGTTGGTGGCTTCACTCAGATGATTCGAGAAGGAGGGGCCAGGTCACTCTGGCGGGCAATGGCATC
 AACGTCCTCAAAATTGCCCCGAATCAGCCATCAAATTCATGGCCTATGAGCAGATCAAGCGCCTTGTG
 GTAGTGACCAGGAGACTCTGAGGATTACGAGAGGCTTGTGGCAGGGTCTTGGCAGGGGCCATCGCCCA
 GAGCAGCATCTACCAATGGAGGTCTGAAGACCCGATGGCGCTGCGGAAGACAGGCCAGTACTCAGGA
 ATGCTGGACTGCCCAGGAGGATCCTGGCCAGAGAGGGGTGGCCGCTTCTACAAGGCTATGTCCCA
 ACATGCTGGGCATCATCCCCTATGCCGGCATCGACCTTGCAGTCTACGAGACGCTCAAGAATCCTGGCT
 GCAGCACTATGCAGTGAACAGCGCGGACCCCGGGTGTGGTGTGCTCTGGCCTGTGGCACCATGTCCAGT
 ACCTGTGGCCAGCTGGCCAGCTACCCCTGGCCCTAGTCAGGACCCGGATGCAGGCGCAAGCCTCTATTG
 AGGGCGCTCCGGAGGTGACCATGAGCAGCCTCTCAAACATATCCTGCGGACCGAGGGGGCCTTCGGGCT
 GTACAGGGGGCTGGCCCCAACTTCATGAAGGTATCCACGCTGTGAGCATCAGCTACGTGGTCTACGAG
 AACCTGAAGATCACCTGGGCGTGCAGTCGCGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234299 representing NM_001265614
 Red=Cloning site Green=Tags(s)

MLQMLWHFLASFFPRAGCHSREGDDREVRGTPAPAWRDQMASFLGKQDGRAEATEKRPTILLVVGPAEQ
 FPKKIVQAGDKLDGQLDFEEFVHYLQDHEKLRRLVFKSLDKKNDGRIDAQEIMQSLRDLGVKISEQQAE
 KILKRIRTGHFVGPVTYMDKNGTMTIDWNEWRDYHLLHPVENIPEIILYWKHSTIFDVGENLTVPDEFTV
 EERQTGMWWRHLVAGGGAGAVSRTCTAPLDRLKVLQVHASRSNNMGIVGGFTQMIREGGARSLWRNGI
 NVLKIAPESAIFMAYEQIKRLVGSQDQETLRIHERLVAGSLAGAIQSSIYPMEVLKTRMALRKTGQYSG
 MLDCARRILAREGVAAFYKGYVPNMLGIIPYAGIDLAVYETLKNLQHYAVNSADPGVFVLLACGTMSS
 TCGQLASYPLALVRTRMQAQASIEGAPEVTMSSLFKHILRTEGAFGLYRGLAPNFMKVIPAVSISYVVVE
 NLKITLGVQSR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001265614

ORF Size: 1503 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_001265614.2](#), [NP_001252543.1](#)

RefSeq Size: 3727 bp

RefSeq ORF: 1506 bp

Locus ID: 114789

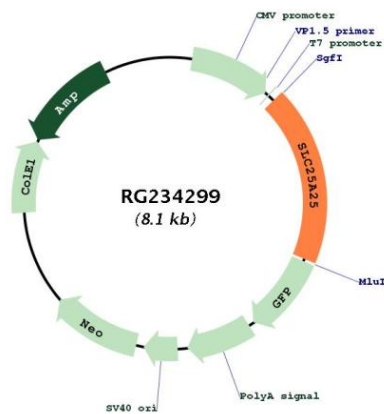
UniProt ID: [Q6KCM7](#)

Cytogenetics: 9q34.11

Protein Families: Druggable Genome

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 RG234299