

Product datasheet for **RG211935**

SLC25A25 (NM_052901) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A25 (NM_052901) 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:

>RG211935 representing NM_052901
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCTGTCTGTGCCTGTACGTGCCGGTCATCGGGGAAGCCAGACCGAGTTCAGTACTTTGAGTCGA
 AGGGGCTCCCTGCCGAGCTGAAGTCCATTTTCAAGCTCAGTGTCTTCATCCCCTCCAGGAATTCTCCAC
 CTACCGCCAGTGAAGCAGAAAATTGTACAAGCTGGAGATAAAGGACCTTGATGGGAGCTAGACTTTGAA
 GAATTTGTCCATTATCTCCAAGATCATGAGAAGAAGCTGAGGCTGGTGTAAAGAGTTTGGACAAAAAGA
 ATGATGGACGCATTGACGCGCAGGAGATCATGCAGTCCCTGCGGGACTTGGGAGTCAAGATATCTGAACA
 GCAGGCAGAAAAATTCTCAAGAGCATGGATAAAAACGGCAGCATGACCATCGACTGGAACGAGTGGAGA
 GACTACCACCTCTCCACCCCGTGGAAAACATCCCCGAGATCATCTCTACTGGAAGCATTCCACGATCT
 TTGATGTGGGTGAGAATCTAACGGTCCCGGATGAGTTCACAGTGGAGGAGAGGCAGACGGGGATGTGGT
 GAGACACCTGGTGGCAGGAGGTGGGGCAGGGCCGTATCCAGAACCTGCACGGCCCCCTGGACAGGCTC
 AAGGTGCTCATGCAGGTCCATGCCTCCCGCAGCAACAACATGGGCATCGTTGGTGGCTTCACTCAGATGA
 TTCGAGAAGGAGGGGCCAGGTCCTCTGGCGGGCAATGGCATCAACGTCTCAAATGGCCCCGAATC
 AGCCATCAAATTCATGGCCTATGAGCAGATCAAGCGCCTTGTGGTAGTGACCAGGAGACTCTGAGGATT
 CACGAGAGGCTTGTGGCAGGGTCTTGGCAGGGGCCATCGCCAGAGCAGCATCTACCCAATGGAGGTCC
 TGAAGACCCGGATGGCGCTGCGGAAGACAGGCCAGTACTCAGGAATGCTGGACTGCGCCAGGAGGATCCT
 GGCCAGAGAGGGGGTGGCCGCTTCTACAAAGGCTATGTCCCAACATGCTGGGCATCATCCCCTATGCC
 GGCATCGACCTTGCACTACGAGACGCTCAAGAATGCCTGGCTGCAGCACTATGCAGTGAACAGCGCGG
 ACCCCGGCGTGTGGTCTCTGGCTGTGGCACCATGTCCAGTACCTGTGGCCAGCTGGCCAGCTACCC
 CCTGGCCCTAGTCAGGACCCGGATGCAGGCGCAAGCCTCTATTGAGGGCGCTCCGAGGTTGACCATGAGC
 AGCCTTCTCAAACATATCTGCGGACCGAGGGGCTTCCGGCTGTACAGGGGGCTGGCCCCAACTTCA
 TGAAGGTATCCAGCTGTGAGCATCAGTACGTGGTCTACGAGAACCTGAAGATCACCTGGGCGTGCA
 GTCGCGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211935 representing NM_052901
 Red=Cloning site Green=Tags(s)

MLCLCLYVPVIGEATQTEFQYFESKGLPAELKSIFKLSVFIQPSQEFSTYRQWKQKIVQAGDKLDLGGQLDFE
 EFVHYLQDHEKKLRLVFKSLDKKNDGRIDAQEIQQSLRDLGVKISEQQAELKLSMDKNGTMTIDWNEW
 DYHLLHPVENIPEIILYWKHSTIFDVGENLTVPDEFTVEERQTMWWRHLVAGGGAGAVSRTCTAPLDRL
 KVLMLQVHASRSNNMGIVGGFTQMIREGGARSLWRGNGINVLKIAPESAIKFMAYEQIKRLVGSDDQETLRI
 HERLVAGSLAGIAQSSIYPMEVLKTRMALRKGTQYSGMLDCARRILAREGVAAFYKGYVPMNLGIIPYA
 GIDLAVYETLKNLAWLQHYAVNSADPGVFVLLACGTMSSTCGQLASYPLALVRTRMQAQASIEGAPEVTMS
 SLFKHILRTEGAFGLYRGLAPNFMKVIPAVSISYVVYENLKITLGVQSR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_052901

ORF Size: 1407 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_052901.4](#), [NP_443133.2](#)

RefSeq Size: 3240 bp

RefSeq ORF: 1410 bp

Locus ID: 114789

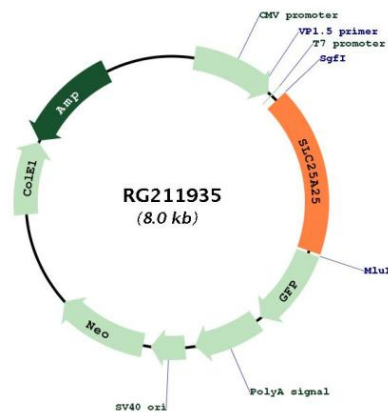
UniProt ID: [Q6KCM7](#)

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 RG211935