

## Product datasheet for **RG212556**

### **SLC25A25 (NM\_001006641) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLC25A25 (NM_001006641) 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:**

>RG212556 representing NM\_001006641  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGTGAGCAGTGTGTTGTGCCGTGTGTGGCCTCCCCGCGCCGGACGCCGCCACCGCCCTCTT  
 CGTCTGCCTCATCGCCGGCGTCCGTGGGGACCCCTGCGGCGGCCTATCTGCGGGGCCGGACCACCG  
 GCTGCGCCTGTGGAGACTCTTTCAGACGCTCGACGTCAACCGGGACGGCGCCTGTGTGTCAACGACCTG  
 GCGGTGGGGCTGCGGCGCCTGGGACTGCACCGCACCGAGGGCGAGCTCCAGAAAATTGTACAAGCTGGAG  
 ATAAGGACCTTGATGGGACGCTAGACTTTGAAGAATTTGCCATTATCTCCAAGATCATGAGAAGAAGCT  
 GAGGCTGGTGTAAAGAGTTTGGACAAAAGAATGATGGACGATTGACGCGCAGGAGATCATGCAGTCC  
 CTGCGGGACTTGGGAGTCAAGATATCTGAACAGCAGGCAGAAAAAATTCTCAAGAGCATGGATAAAACG  
 GCACGATGACCATCGACTGGAACGAGTGGAGAGACTACCACCTCCTCCACCCCGTGGAAAACATCCCCGA  
 GATCATCTCTACTGGAAGCATTCCACGATCTTTGATGTGGGTGAGAATCTAACGGTCCCGGATGAGTTC  
 ACAGTGGAGGAGAGGCAGACGGGGATGTGGTGGAGACACCTGGTGGCAGGAGGTGGGGCAGGGGCCGTAT  
 CCAGAACCTGCACGGCCCCCTGGACAGGCTCAAGGTGCTCATGCAGGTCATGCCTCCCGCAGCAACAA  
 CATGGGCATCGTTGGTGGCTTCACTCAGATGATTGAGAAAGGAGGGGCCAGGTCCTGCGGGGCAAT  
 GGCATCAACGTCCTCAAATGCCCCGAATCAGCCATCAAATTCATGGCCTATGAGCAGATCAAGCGCC  
 TTGTTGGTAGTGACCAGGAGACTCTGAGGATTCACGAGAGGCTTGTGGCAGGGTCTTGGCAGGGCCAT  
 CGCCCAGAGCAGCATCTACCAATGGAGGTCCTGAAGACCCGGATGGCGCTGCGGAAGACAGGCCAGTAC  
 TCAGGAATGCTGGACTGCGCCAGGAGGATCCTGGCCAGAGAGGGGTGGCCGCTTCTACAAAGGCTATG  
 TCCCAACATGCTGGGCATCATCCCCTATGCCGGCATCGACCTTGCACTACGAGACGCTCAAGAATGC  
 CTGGCTGCAGCACTATGCAGTGAACAGCAGCGGACCCCGCGTGTGTGCTCCTGGCCTGTGGCACCATG  
 TCCAGTACCTGTGGCCAGCTGGCCAGTACCCCTGGCCCTAGTCAAGACCCGGATGCAGGCGCAAGCCT  
 CTATTGAGGGCGCTCCGGAGGTGACCATGAGCAGCCTCTTCAAACATATCCTGCGGACCGAGGGGCCCTT  
 CGGGCTGTACAGGGGGCTGGCCCCAATTCATGAAGGTCATCCAGCTGTGAGCATCAGTACGTGGTC  
 TACGAGAACCTGAAGATCACCTGGGCGTGCAGTCGCGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG212556 representing NM\_001006641  
 Red=Cloning site Green=Tags(s)

MVSSVLCRCVASPPPDAATAASSASSPASVGDPCGGAI CGGPDHRLRLWRLFQTL DVNRDGGLCVNDL  
 AVGLRRLGLHRTEGELQKIVQAGDKLDGQLDFEEFVHYLQDHEKKLRLVFKSLDKKNDGRIDAQEIMQS  
 LRDLGVKISEQQAELKSMKNGTMTIDWNEWRDYHLLHPVENIPEIILYWKHSTIFDVGENLTVPDEF  
 TVEERQTMWWRHVAGGGAGAVSRTCTAPLDRLKVLQVHASRSNNMGI VGGFTQMIREGGARSLWRGN  
 GINVLKIAPESAIKFMAYEQIKRLVGSQETLRIHERLVAGSLAGAI AQSSIYPMEVLKTRMALRKTGQY  
 SGMLDCARRILAREGVAAFYKGYVPNMLGIIPYAGIDLAVYETLKNWLQHYAVNSADPGVFVLLACGTM  
 SSTCGQLASYPLALVRTRMQAASIEGAPEVTMSSLFKHILRTEGAFGLYRGLAPNFMKVIPAVSISYVV  
 YENLKITLGVQSR

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001006641

ORF Size: 1509 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\\_001006641.3](#), [NP\\_001006642.1](#)

RefSeq Size: 3433 bp

RefSeq ORF: 1512 bp

Locus ID: 114789

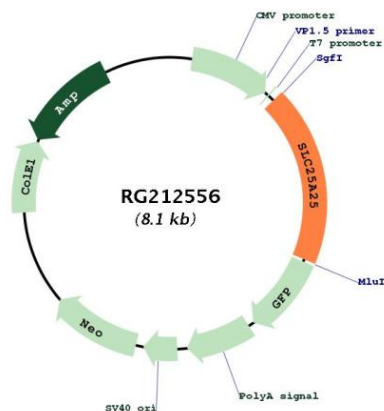
UniProt ID: [Q6KCM7](#)

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 RG212556