

## Product datasheet for **RG206398**

### SLC25A18 (NM\_031481) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A18 (NM_031481) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC25A18
Synonyms:	GC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206398 representing NM_031481 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCACCAGGATCTGAGCATCACAGCCAACTCATCAATGGAGGTGTAGCAGGGCTCGTGGGGTGA  
CCTGCGTGTTCCCATCGACTTGGCCAAGACTCGCTGCAGAACCAGCATGGAAAGCCATGTACAAAGG  
AATGATCGACTGCCTGATGAAGACGGCTCGGGCGGAGGGCTTCTCGGCATGTACCGAGGGGCTGCAGT  
AACCTCACTCTGGTCACTCCAGAGAAGGCCATCAAGCTGGCGGCCAACGACTTTTTCCGGCGGCTGCTCA  
TGAAGATGGGATGCAGCGGAACCTGAAGATGGAGATGCTTGCCGGGTGTGGGGCTGGGATGTGCCAGGT  
CGTGTTGACCTGTCCCATGGAAATGCTCAAGATTCAGCTGCAGGATGCTGGACGCCTGGCCGTCCATCAT  
CAGGGCTCGGCCCTCAGCACCCCTCCACCTCCAGGTCTACACAACCTGGTTCGGCTTCCACCCACAGGCC  
CCTCTGCCACCCTCATTGCCTGGGAGCTGCTCCGCACTCAGGGCCTGGCTGGGCTCTACAGGGGCTGGG  
TGCCACTCTCCTCAGAGACATTCCTTTCTCCATCATCTACTTCCCACTGTTTGCCAACTTAACAACCTG  
GGTTCAACGAGCTCGCCGTAAGGCGTCTTTGCACATTCCTTCGTGTCAGGCTGTGTGGCAGGTTCCA  
TAGCTGCGGTGCGAGTGACGCCTCTAGATGTTCTGAAAACCTCGAATCCAAACCCTCAAGAAAGGCCTGGG  
CGAGGACATGTACAGTGGGATCACCGACTGTGCCAGGAACTCTGGATTCAGGAGGGACCATCTGCCTTC  
ATGAAAGGCGCTGGCTGCCGGGCACTGGTCATAGCACCTCTCTTTGGGATTGCTCAAGGGGTCTATTTTA  
TTGGGATTGGAGCGCATCTTAAAGTGTTTTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206398 representing NM\_031481  
Red=Cloning site Green=Tags(s)

MTHQDLSITAKLINGGVAGLVGVTCVFPIDLAKTRLQNQHKGAMYKGMIDCLMKTARAEGFFGMYRGAAV  
 NLTLVTPEKAIKLAANDFFRLLMEDGMQRNLKMEMLAGCGAGMCQVVVTCPMEMLKIQLDAGRLAVHH  
 QGSASAPSTSRSYTTGSASTHRRPSATLI AWELLRTQGLAGLYRGLGATLLRDIPFSIIYFPLFANLNNL  
 GFNELAGKASFVHSFVSGCVAGSIAAVAVTPLDVLKTRIQTLKKGLEDGMYSGITDCARKLWIEGPSAF  
 MKGAGCRALVIAPLFGIAQGVYF IGIGERILKCFD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_031481

**ORF Size:** 945 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\\_031481.3](#)

**RefSeq Size:** 2087 bp

**RefSeq ORF:** 948 bp

**Locus ID:** 83733

**UniProt ID:** [Q9H1K4](#)

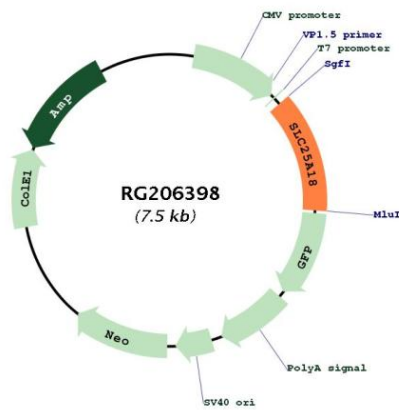
**Cytogenetics:** 22q11.21

**Domains:** mito\_carr

**Protein Families:** Transmembrane

**Gene Summary:** Involved in the transport of glutamate across the inner mitochondrial membrane. Glutamate is cotransported with H(+).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG206398