

Product datasheet for **SC107147**

SLC25A18 (NM_031481) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A18 (NM_031481) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A18
Synonyms:	GC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107147 sequence for NM_031481 edited (data generated by NextGen Sequencing)

```

ATGACCCACCAGGATCTGAGCATCACAGCCAACTCATCAATGGAGGTGTAGCAGGGCTC
GTGGGGGTGACCTGCGTGTTCCTCCATCGACTTGGCCAAGACTCGCCTGCAGAACCAGCAT
GGGAAAGCCATGTACAAAGGAATGATCGACTGCCTGATGAAGACGGCTCGGGCGGAGGGC
TTCTTCGGCATGTACCGAGGGGCTGCAGTGAACCTCACTCTGGTCACTCCAGAGAAGGCC
ATCAAGCTGGCGGCCAACGACTTTTCCGGCGGCTGCTCATGGAAGATGGGATGCAGCGG
AACCTGAAGATGGAGATGCTTGCCGGGTGTGGGGCTGGGATGTGCCAGGTCGTGGTGACC
TGTCCTATGGAATGCTCAAGATTCAGCTGCAGGATGCTGGACGCCTGGCCGTCCATCAT
CAGGGCTCGGCTCAGCACCTCCACCTCCAGGTCCTACACAACCTGGTTCGGCTTCCACC
CACAGGCGCCCTCTGCCACCCTCATTGCCTGGGAGCTGCTCCGCACTCAGGGCCTGGCT
GGGCTCTACAGGGGCTGGGTGCCACTCTCTCAGAGACATTCTTTCTCCATCATCTAC
TTCCCACTGTTTGCCAACCTTAACAACCTGGGGTTCAACGAGCTCGCCGGTAAGGCGTCC
TTTGACATTCTTCGTGTCAGGCTGTGTGGCAGGTTCCATAGCTGCGGTGCGAGTGACG
CCTCTAGATGTTCTGAAAACCTCGAATCCAACCTCAAGAAAGGCTGGGCGAGGACATG
TACAGTGGGATCACCGACTGTGCCAGGAACTCTGGATTGAGGAGGACCATCTGCCTTC
ATGAAAGCGCTGGCTGCCGGGCACTGGTCATAGCACCTCTCTTTGGGATTGCTCAAGGG
GTCTATTTTATTGGGATTGGAGAGCGCATCTTAAAGTGTTTTGACTAG

```

Clone variation with respect to NM_031481.1



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031481 unedited
 GAGTTGCACATTATGNATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGCCAGT
 TAAAGCTGGACAGAATTTTAAAGCAATGAAGCCAGTTCCTTGGATATATCCACGGGCT
 TTGCTTTGAGAAGGAAGTGAAGTGGCAGTGAAGCCTGGCCCGTGAG
 TGCCTCAACAAGTGAAGTGAAGTGGCAGTGAAGCCTGGCCCGTGAG
 TCTGAAGTATATCTGGGTTCCAGAAAAGCAGAGGTTCTTACCGAAAGCAGGGGAGGAA
 GCCCGAGCCCAAGGAGGTCGTCCTTGGCGGAAGGTGGCTCGGGCCAGGCTGCACTCAA
 AACCCGTGCTCTGTCCACACTGCTACGGGGCCAGAGCCAAGGAAGCTTCCACTTCTCCC
 CCAGACAGCCCCAACAGCGGCTACCCCAAGGAGCCAGCAGCCTTGTGCTGGGATCCCC
 AGCCCCCTGCAGAAATGACCCACCAGGATCTGAGCATCACAGCCAACTCATCAATGGAGGT
 GTAGCAGGGCTCGTGGGGGTGACCTGCGTGTCCCATCGACTTGGCCAAGACTCGCCTG
 CAGAACCAGCATGGGAAAGCCATGTACAAAGGAATGATCGACTGCCTGATGAAGACGGCT
 CGGGCGGAGGGCTTCTCGGCATGTACCGANGGGCTGCAGTGAACCTCACTCTGGTCACT
 CCAGAGAAGGCCATCAAGCTGGGCGCCAACGACTTTTTCCGCGGCTGCTCATGGAANAT
 GGGATGCANCGAACCTGGAGATGGAGATGCTTCCCGGTGTGGGGCTGGGATGTCCAC
 GTTCGTGGTGACCTGTTCCATGGAAAAGCTCAAGATTCACCTGCAGGATGCTGGACGCCT
 GGNCGTTCATCATTAAGGCTCGGGCTCACCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_031481 unedited
 CGCGGGGCGCAATTCTACAGTCGAGTTTTTTTTTTTTTTTTTTAGCCTTCACCTTTATTT
 CATATTGTTCTTGGTTACAGGGAGGGGTGTGCAAGACCCTGAGCTCTGGGGGAGGGGCT
 GATCTGTCCACTCAGATCCGGGCTCAGCCCTTCACTCATCCAGGGTTTCTATAGGGTGC
 TTGTTCTCATACTAGGTGCTGACTCTGAGGGCTTCACTGTCCCTGAACTTCTGATCCT
 GCTTTTCTCAAATCAGTGCTAGGACTCATAAGCTATGGTGCCAAGATTAACTGCT
 AATTCTCAAGCTGACTGAACAATGCCGAGTTTACTGTGACATAGAAATGTTAGACTAC
 AGAAACAACCTTCTATTGAGACTACCTGTTAAGGTCTGCAATTAATACAACGAAGGTA
 CCATTTTTGTTGAAAAGTCAGTGATAGGGGCTTCCAAATCCCATGGTAGCTGTGCCCA
 CAACAGACTACGAGTTGTTACACCAACGTGAAGATAGCTGTGCTCACTCGTGAAATTATA
 AGGCTGTTACTCCCAACTGATGTNACGTACACGCGATGACCATTCAAGGCACAGTGA
 ACCCCCTGCACTTGCCCCATAGCTAACCGAACCTATAAATGCTGCAAGCTCAGGACT
 TGACCTCAGCTCTGACTAGGCAATCATTATCATGCACTTCCATGCCATGAAAAACCT
 CCCTGAACCATCGACACTATGAGCTTAGCCAGTGGCTGGAACAACGCTTACCTGAAGCTA
 AGTGCCGTCTGATCAAAATTTCTGGACAAAAGCGAGGCGACTTCTGTACCCCCCAACG
 TTTTGCTGGCCTGGGAAAAGCCTCAAAAGCCACAGGCCTGTGTTACAAATTTATGAACCT
 TTCTCCTCCCTAACGGAGGTTTTAAATGAAGGTTAGGGGGGGTGTAAACCCAGGTTTT
 TGGGTGCAACTTGGGAGCTCTCTGTAT

Restriction Sites:

ECoRI-NOT

ACCN:

NM_031481

Insert Size:

2100 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_031481.1, NP_113669.1</u>
RefSeq Size:	2087 bp
RefSeq ORF:	948 bp
Locus ID:	83733
UniProt ID:	<u>Q9H1K4</u>
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] Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.