

Product datasheet for **RG210858**

SLC16A11 (NM_153357) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A11 (NM_153357) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC16A11
Synonyms:	MCT 11; MCT11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG210858 representing NM_153357
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGCCAGCTCCCCAGCGAAGCACAGGCGTGGAGGCTTCTCTCACAGATGTTTCCCCACCCCGCAGACGG
 CGATGACCCCCAGCCCGCCGACCCCGGATGGGGGCTGGGGCTGGGTGGTGGCGGCCGAGCCTTCGC
 GATAAACGGGCTGTCTACGGGCTGCTGCGCTCGCTGGGCCTTGCTTCCCTGACCTTGGCAGCACTTT
 GACCGAAGCGCCAGGACACTGCGTGGATCAGCGCCCTGGCCCTGGCCGTGCAGCAGGCAGCCAGCCTG
 TGGGCAGCGCCCTGAGCACGCGCTGGGGGGCCCGCCCGTGGTGATGGTTGGGGGCGTCTCGCCTCGCT
 GGGCTTCGTCTTCTCGGCTTTCGCCAGCGATCTGCTGCATCTCTACCTCGGCCTGGGCCTCTCGCTGGC
 TTTGGTTGGGCCCTGGTGTTCGCCCCGCCCTAGGCACCTCTCGCGTTACTTCTCCCGCCGTCGAGTCT
 TGGCGGTGGGGCTGGCGCTACCGGCAACGGGGCCTCTCGCTGCTCTGGCGCCCGCCTTGCGAGTTCT
 TCTCGATACTTTCGGCTGGCGGGGCGCTGCTCTCTCGGCGCGATCACCTCCACCTACCCCTGT
 GGCGCCCTGCTGTACCCCTGGTCTTCTTGAGACCCCCAGCCCCACCGCGTAGTCCCTAGCTGCC
 TCGGCCTGAGTCTGTTACACGCCGGGCTTCTCAATCTTTGCTCTAGGCACAGCCCTGGTTGGGGCGG
 GTACTTCGTTCTTACGTGCACTTGGCTCCCCACGCTTTAGACGGGGGCTGGGGGATACGGAGCAGCG
 CTGGTGGTGGCCGTGGCTGCGATGGGGGATGCGGGCGCCCGGCTGGTCTGCGGGTGGCTGGCAGACCAAG
 GCTGGGTGCCCTCCCGCGGCTGCTGGCCGATTCGGGGCTCTGACTGGGCTGGGCTGTGGTGGTGGG
 GCTGGTGCCCGTGGTGGCGGCGAAGAGAGCTGGGGGGTCCCTGCTGGCCGCGCTGTGGCCTATGGG
 CTGAGCGCGGGGAGTTACGCCCCGCTGGTTTTCGGTGACTCCCCGGGCTGGTGGGCGTCGGAGGTGTGG
 TGCAGGCCACAGGGCTGGTATGATGCTGATGAGCCTCGGGGGGCTCCTGGGCCCTCCCTGTGAGGCTT
 CCTAAGGGATGAGACAGGAGACTTCACCGCCTCTTCTCTCTGCTGGTCTTTGATCCTCTCCGCGCAGC
 TTCATCTACATAGGGTTGCCAGGGCGCTGCCCTCTGTGGTCCAGCCTCCCTCCAGCCACGCCTCCCC
 CAGAGACGGGGGAGCTGCTTCCCGCTCCCCAGGCAGTCTTGTGTCCCCAGGAGGCCCTGGCTCCACTCT
 GGACACCACTTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210858 representing NM_153357
 Red=Cloning site Green=Tags(s)

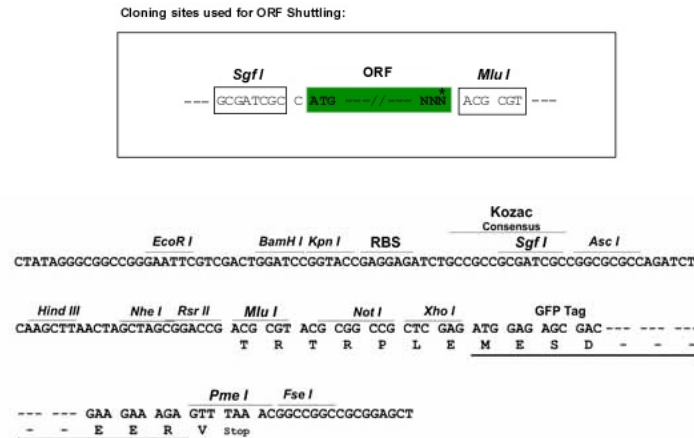
MPAPQRKHRRGGFSHRCFPTQTAMTPQPAGPPDGGWGWVAAAAFAINGLSYGLLRSLGLAFPDLAEHF
 DRSAQDTAWISALALAVQQAASPVGSALSTRWGARPVVMVGGVLASLGFVFSAFASDLLHLGLGLLAG
 FGWALVFAPALGTLTRYFSRRRVLAVGLALTGNASSLLAPALQLLLDTFGWRGALLLLGAILHLTPC
 GALLPLPLPGDPPAPPRSPALGLSLFTRRAFSIFALGTALVGGGYFVPYVHLAPHALDRGLGGYGAA
 LVVAVAAAMGDAGARLVCGWLADQGWVPLRLLAVFGALTGLGLWVGLVPVVGGEESWGGPLLAAAVAYG
 LSAGSYAPLVFGVLPGLVGVGGVVQATGLVMMLMSLGGLLPPLSGFLRDETGFDTASFLLSGSLILSGS
 FIYIGLPRALPSCGPASPPATPPPETGELLPAQAVLLSPGGPGSTLDTTC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_153357

ORF Size: 1413 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

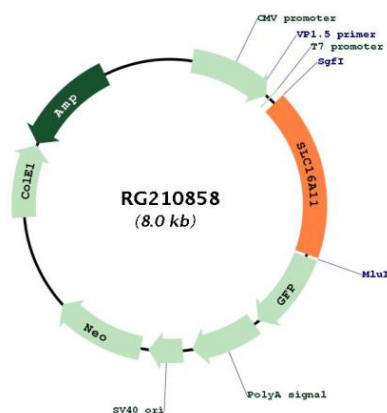
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_153357.1, NP_699188.1</u>
RefSeq Size:	1803 bp
RefSeq ORF:	1344 bp
Locus ID:	162515
UniProt ID:	<u>Q8NCK7</u>
Cytogenetics:	17p13.1
Protein Families:	Transmembrane
Gene Summary:	Proton-linked monocarboxylate transporter. It catalyzes the transport of pyruvate across the plasma membrane (PubMed:28666119). Probably involved in hepatic lipid metabolism: overexpression results in an increase of triacylglycerol(TAG) levels, small increases in intracellular diacylglycerols and decreases in lysophosphatidylcholine, cholesterol ester and sphingomyelin lipids (PubMed:24390345).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG210858