

Product datasheet for **RC224833**

SLC16A12 (NM_213606) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SLC16A12
Synonyms:	CJMG; CRT2; CTRCT47; MCT12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224833 representing NM_213606
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCATCAGGAAGTCACTGGACAGCAAACTCTTCCAAGATCATAACTTGGCTGTTGGAGCAACCTGGAA
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 ATTTTTTTGTGGAGTTCAGACATACTTCACTCAGGATTACGCACAAACGGCATGGATCCATTCCATTG
 TAGATTGTGTGACCATGCTCTGTGCTCCACTTGGGAGTGTGTGAGTAACCATTTATCCTGTCAAGTGGG
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 GATTGACATTATTGGCAATATCACATTTGGATGGCTGACCGACAGAAGGTGTCTGAAGAATTACCAGTAT
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 CTCTGCTGTCCTTTCTTGTACCTTTGGCTACTTTGATGGTGCCTATGTGACTTTGATCCCAGTAGT
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 CCATACTTGGTGAGCCCACTCGCAGGACGGCTGGTAGATACCACCGGCAGCTACACTGCAGCATTCC
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 GCCTCACA

ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224833 representing NM_213606
 Red=Cloning site Green=Tags(s)

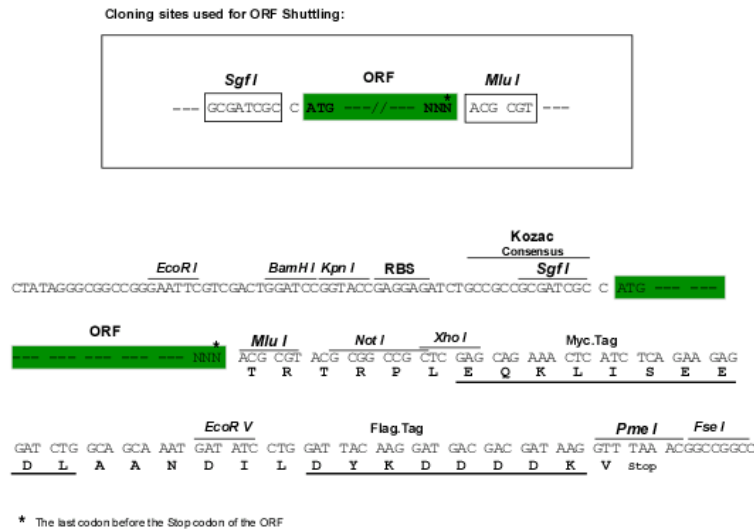
MPSGSHWTANSSKIITWLEQPGKEEKRTMAKVNARSTSPPDGGWGMIVAGCFLVTICTRAVTRCIS
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 LYLTLGVL TGLGFALCYSPAIAMVGKYFSRRKALAYGIAMSGSIGTFILAPVVQLLIEQFSWRGALLIL
 GGFVLNLCVCGALMRPITLKEDHTTPEQNHVCRTQKEDIKRVSPYSSLTKWEAQTCCLCCLQEQEYSFLM
 SDFVVLAVSVLFMAYGCSPLFVYLVYPYALSVGVSHQQAFLMSILGVIDIIGNITFGWLTDRRCLKNYQY
 VCYLFAVGMDGLCYLCLPMLQSLPLLVPFSCTFGYFDGAYVTLIPVVTTEIVGTSSLSSALGVVYFLHAV
 PYLVSPPIAGRLVDTTGSYTAFLLCGFSMIFSSVLLGFARLIKRMRTQLQFIAKESDPKLQLWTNGSV
 AYSVARELDQKHGEPVATAVPGYSLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8014_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_213606

ORF Size: 1548 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.

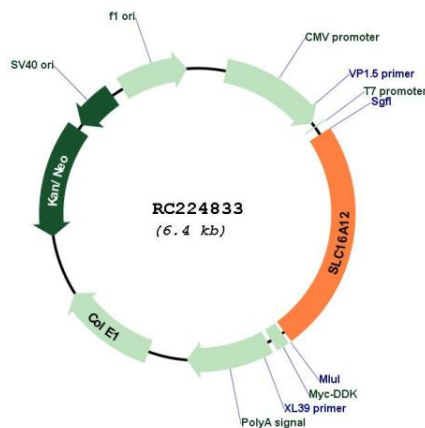
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_213606.4</u>
RefSeq Size:	3901 bp
RefSeq ORF:	1551 bp
Locus ID:	387700
UniProt ID:	<u>Q6ZSM3</u>
Cytogenetics:	10q23.31
Protein Families:	Transmembrane
MW:	56.3 kDa
Gene Summary:	This gene encodes a transmembrane transporter that likely plays a role in monocarboxylic acid transport. A mutation in this gene has been associated with juvenile cataracts with microcornea and renal glucosuria. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RC224833