

Product datasheet for **MR224585**

Slc16a7 (NM_011391) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc16a7 (NM_011391) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc16a7
Synonyms:	4921534N07Rik; Mct2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224585 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCATCAGAGCCTTCCGCGCCGCTTCCACAACCACTTCTCCCGACGGAGGGTGGGGCTGGTCTAG
 TCTGTGGCTCCTTTATCTCCATTGGATTTTCATATGCCTTCCCAAAGCTGTACAGTATTCTTCAAAGA
 CATCCAGGAAATATTCAACACCACCTCCAGTCAGATCGCTTGGATATCGTCCATCATGCTAGCTGCATG
 TATGCGGGAGGTCCCATCAGTAGTGTGTGGTGAATAACTATGGCAGCCGGCCTGTGGTATAGTGGGAG
 GACTATTGTGCTGCATTGGAATGATCTTGGCTTCTACAGCAACAGCGTGATAGAGCTTTATCTCACCGT
 TGGCTTATTGGAGGTTTAGGATTAGCATTCAACCTGCAACCAGCCTTAAACAATAATTGGAAAATACTTC
 TATAGAAGACGACCCTTGCAAATGGCTGCGCCATGGCTGGAAGTCCTGTTTTCTTAAGCACACTGGCTC
 CTTTCAATCAGTACCTATTTAACTATGGCTGGAAGGGGAGTTTTTTGATTTTGGGAGGTATATTTTT
 GCACTCCTGTGTGGCTGGTGCCTCATGAGACCTGTTGGCCAAGTCCAATACTAAGAAGTCTAAAAGT
 AAGGTTGGCTCAAGACATGATCAACTCTGAAGAAAGCCAGTAAGGTATCAACAGCACAAAAGGTTAATA
 GTTTTTATAGATTTAGCCTTTTTATGCATAGAGGATTTTTGATCTACCTATCTGGAAACGTCATATTGTT
 TTTAGGGATTTTTGCCCTATTATATTCTTGGCTCAGTACGCTAAACACATAGGAGTGGATGACTATAAC
 TCAGCTTTTTTACTGTCTGTGATGGCTTTATCGATATGTTTGTCTCGGCCTTCTGTAGGATTAATAGCCA
 AACTAGATTAATCCGTCCACGAATCCAGTACCTCTCAGCTCTGCAATCATCTTTACTGGCATATGCCA
 TCTCTTATGCCCTAGCAACTACCTACTCAGCTTGGTGGTCTACGTTGATTTTTTGGATTGGGATTT
 GGAAGTATTAGCAGTCTCTCTTTGAATGCCTATGGACATTGTTGGAGCTACCAGGTTCTCCAGTGTCTG
 TGGACTCACACAATCGTGGAGTGTTCAGTCTTTTCGGCCCTCTCTGGCTGGTAAATTTGGATTGTTGA
 TATAACTGGAGAATATAAATACCTGTACATAGCCAGCGGAACAGTCGTGTTAGTATCAGGTACTTACCTC
 CTGATTGGCAATGCTATAAACTATAGACTTCTCGACAAGGAAAGGAGAGAGAAGGCAAGAAGAAGA
 AGTCAGCTTACACGCGTCCAGAGAAATGGAGGCCCTGAACAGATCTAAACAGGACGAAGTTACTGTCAA
 AGCTTCAAACGCACACAATCCTCCCTCAGACAGGGACAAAGAGAGTAATATT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224585 protein sequence
 Red=Cloning site Green=Tags(s)

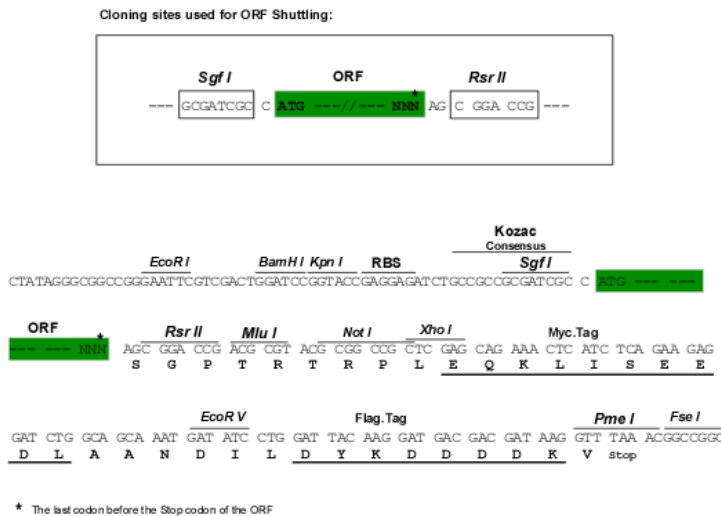
MPSEPSAPLPQPLPPDGGWGWVVCASFISIGFSYAFPKAVTVFFKDIQEIFNTTSSQIAWISSIMLAVM
 YAGGPISSVLVNNGSRPVVIVGGLLCCIGMILASYSNSVIELYLTVGFIGGLGLAFNLQPALTIIGKYF
 YRRRPLANGCAMPVFLSTLAPFNQYLFNNYGWKGSFLILGGIFLHSCVAGCLMRPVGSPNTKKS
 KVGSRHSTLKKASKVSTAQKVNRFDFSLFMHRGFLIYLSGNVILFLGIFAPIIFLAQYAKHIGVDDYN
 SAFLLSVMAFIDMFARPSVGLIANTRLIRPRIQYLFSSAIIIFTGICHLLCPLATTYSALVVVVVFFGLGF
 GSISLLFECLMDIVGATRFSSAVGLTTIVECCPVLFGPPLAGKLLDITGEYKLYIASGTVVLVSGTYL
 LIGNAINYRLDKERKREKAKKKKSASHASREMEALNRSKQDEVTVKASNAHNPPSDRDKESNI

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_011391

ORF Size: 1455 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.

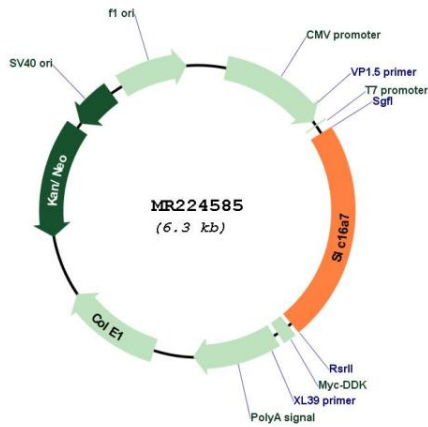
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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: [NM_011391.1, NP_035521.1](#)
 RefSeq Size: 2422 bp
 RefSeq ORF: 1455 bp
 Locus ID: 20503
 UniProt ID: [O70451](#)
 Cytogenetics: 10 D3
 MW: 52.7 kDa

Gene Summary: Proton-coupled monocarboxylate transporter. Catalyzes the rapid transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, branched-chain oxo acids derived from leucine, valine and isoleucine, and the ketone bodies acetoacetate, beta-hydroxybutyrate and acetate. Functions as high-affinity pyruvate transporter. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224585