

Product datasheet for **RR201695**

Slc16a7 (NM_017302) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc16a7 (NM_017302) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc16a7
Synonyms:	Mct2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR201695 representing NM_017302
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCATCAGAGTCTTCAGTAAAGGCAACGGCGCGCCGCTCCATTCCCACTTCTCCGGACGGAGGGT
 GGGGCTGGTGTAGTCTGCGCATCCTTCATCTCCATTGGTTCTCCTATGCCTTCCCCAAAGCCGTAC
 GGTATTCTTCAATGACATCAAGGACATTTTCAAGACCACCTCCAGTCAGATCGCGTGGATATCCTCCATT
 ATGCTGGCTGTACGTACGCAGGAGGTCCCATCAGTAGTGTGGTGAATAACTATGGCAGCCGCGCTG
 TGGTGATAGTAGGAGGATTACTGTGCTGTACTGGAATGATCTTGGCTTCTTTCAGCAGCAGTGTGATAGA
 ACTTTACCTCACCGTCGGCTTCATTGGAGGTTTAGGATTAGCATTCAACCTGCAACCAGCCTTAACAATA
 ATCGGAAAATACTTCTATAGGAAGCGACCCCTTGCAAATGGCTTTGCCATGGCTGGAAGTCTGTTTTCT
 TAAGCACACTGGCTCCTTCAATCAGTTCCTATTTAACAGCTATGGCTGGAAGGGGAGTTTTTTGATTTT
 GGGGGCCATATTTTGCCTCTGTGTGGCCGGTGCCTCATGAGACCTGTCGGGCAAGTCCACGTGCT
 GCGAAGTCTAAAAGTAAGTTGGCTCAAGACAAGATCAAGTACGAAGAGACTCAGTAAGGTATCAACAG
 CAGAAAAGATTAATCGGTTTTTAGATTTTCGGCCTTTTTACACATAGAGGATTTTTGATCTACCTGTCTGG
 AAATGTCGTGTTGTTTTAGGGATGTTTGGCCCTATTATATTCTTGGCTCCGTATGCTAAGGACAAAGGA
 GTGGATGACTATAATTCAGCTTCTTGTGCTGTGTGATGGCTTTTACCGATATGTTTGTCTCGGCCTTCGG
 TAGGATTAATAGCCAACACTAGCTTAATCCGTCCACGAATCCAGTACTTGTTCAGCGTGGCAATCATGTT
 CACTGGCATATGCCATCTCCTCTGCCCCCTAGCCATTCTACACAGCTTGGTGGTCTACGTTATATTT
 TTTGGAATAGGATTTGGAAGTATTAGCAGTCTCCTCTTTGAATGTCTTATGGACCAGTTGGAGCCTCCA
 GGTTCTCCAGTGTGGGGCTCGTCACTATCGTGGAGTGTGCCAGTCTTTTTCGGCCCTCCCCTGCC
 TGGTAAATTGCTCGATATAACTGGACAATAAAATACCTGTACATAGCCAGTGGGATAGTGTGTTATCA
 TCAGGCATTTACCTACTGATTTGCAATGCTATAAACTATAGACTTCTCGAGAAGGAAAGGAGAGAGA
 AAGCAAGGAGGAAGAAATCAGCCTCGCAGGCATCCAAAGAAATGGAGGCTTTGAGCAGATCTAAACAGGA
 CGATGTTACTGTGAAAGTTTCAAATACACACAATCCTCCCTCAGACAGGGACAAAGAAAGTAGTATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201695 representing NM_017302
 Red=Cloning site Green=Tags(s)

MPSESSVKATAAPPPFLPPDGGWGWVVCASFISIGFSYAFPKAVTVFFNDIKDIFKTTSSQIAWISSI
 MLAVMYAGGPISVLVNNGSRPVVIVGGLLCTGMILASFSSSVIELYLVGFIGGLGLAFNLQPALTI
 IGKYFYRKRPLANGFAMAGSPVFLSTLAPFNQFLFNSYGWKGSFLILGAIFLHSCVAGCLMRPVGPSRA
 AKSKSKVGSRQDSSTKRLSKVSTAEKINRFLDFGLFTHRGLIYLSGNVVLFLGMFAPIIFLAPYAKDKG
 VDDYNSAFLLSMAFTDMFARPSVGLIANTSLIRPRIQYLFVSAIMFTGICHLLCPLAHSYALVVYVIF
 FGIGFSGISSLLFECLMDQVGASRFSSAVGLTIVECCPVLFGPPLAGKLLDITGQYKLYIASGIVVLS
 SGIYLLICNAINYRLLEKERKREKARRKKSASQASKEMEALSRSKQDDVTVKVSNTHNPPSDRDKESSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

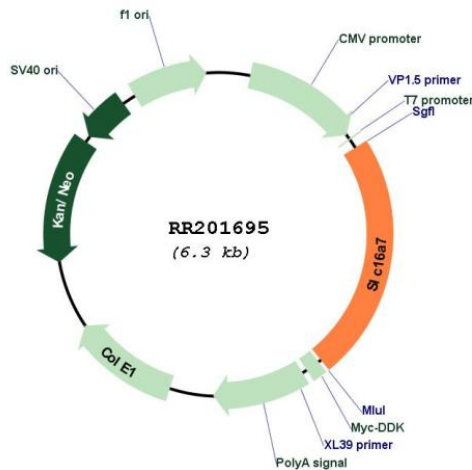
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_017302

ORF Size:

1467 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_017302.2](#), [NP_058998.2](#)

RefSeq Size: 2178 bp

RefSeq ORF: 1470 bp

Locus ID: 29735

Cytogenetics: 7q22

MW: 53 kDa

Gene Summary: transports lactate, pyruvate, and ketone bodies; may be involved in neuronal metabolism [RGD, Feb 2006]