

Product datasheet for **MR221292**

Slc16a5 (NM_001080934) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Slc16a5
Synonyms:	A130015N09Rik; MCT 5; MCT5; MCT 6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR221292 representing NM_001080934
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCCGGGCCCTGGAACAAGCAGATGGCAGATGGGCCTGGGTGGTCTCTATCCTCCCTGGTGACGC
 AGGCCCTCACCTGGGCTTCCCCACCTGCATCGGTGTCTTCTCACTGATCTGCAGCGGACTTTTCAGGC
 CAGCAACAGTGAGACCTCGTGGTTTCTTCCATCCTGGGAGCCATGGTCCACGGTGGGGGACCCCTGTGC
 AGCATCTTGGTCAAACATTTTCGGCTGCCGAGTGACCATGATGCTGGGGGGTGTGCTGGCCAGCCTGGGCA
 TGGTAGTCAGCACCTTCTCTGGCTCGCTCACCACCTCTTCTCACCAGGAGTGATCACAGGCCTGGG
 CATGTGTTTCAGCTTCCAGTCGAGCATCACGGTAGTGGGCTTGATTTTGTCCCGCGCGGCCGCTAGCC
 AATGCACTGGCCTCCATGGGACTCTCCATGGGCGTCACCTCTGGCCACTGCTGGCCGATATCTTCTGG
 AAACCTTGGGCTGGAGGGGCGCCTTCTCATCTTCGGTGGCATCTTACTCCACTGTTGTGTATGTGGAGC
 CTTGCTGAGGCCTGTTGCCACCAACGAGGTCCCGAGGCCAAAGAGGATCCCTTCTACCTCCCAAGATA
 CCTACACGCACTGCCTGGCAACATGTGTCTCAACCATTTCGGTACCACCTGGCCTTTGACATCCTTCGGC
 ACAATATGGGCTTCTGCATATACGTACGGGCGTGACGTGGATGAACCTGGGTTTTGCACTGCCACATAT
 CTTCTAGTGCCGTACGCTATGCATCATGGGTGGAGCACTATTGGGCAGCCATGCTCATGTCCATTGTT
 GGCTTCTGCAACATCTTCTACGGCCAATGGCAGGCTGCTGCTGGCAGGCAGGAAGAGCTTGGCTGCCT
 ACCGGAAGTACCTGTTTGTGTGGCGATCCTCATCAACGGGCTACCAATCTAATATGCACGGTGTGAGC
 CGACTTCCGGGTGCTCCTGGGCTATTGCCTGGTGTACAGCCTGTCCATGTGTGGAGTTGGGATCCTCGTC
 TTCCAGGTTCTAATGGACATTGTCCGATGGATCGGTTCCCGAGCGCCCTGGGCTCTTACCATCCTGT
 GTGGCGTGACTTCTCTCATCTCTCCACATTGGCTGGATTGCTGCTGGACAAGACCAACAACTTCAGCTA
 CGTTTTCTATATGTCGAGTGGCTTCTCTGCTCAGGCTCTCTTATCCTGGGTGTGGGCTTCTACGCCGCA
 GAGAAGAAGAAGCTGAAGCAAGATGGGCAAGCCAAAATGGAGAAGCTACCTCAGAGATGACCCCAATGC
 ACGATCTCACCTCAGAAGACAAGGACAGTGCCAAGAAGCAACCGTACCCTGAAAGCATCTATATGACCAA
 TGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221292 representing NM_001080934
 Red=Cloning site Green=Tags(s)

MARALEQADGRWAWVLLSSLVTQALTGFPTCIGVFFDLQRDFQASNETSWFPSILGAMVHGGGPLC
 SILVKHFGCRVTMMLGGVLASLGMVVSTFSGSLTHLFLTAGVITGLMCFQSSITVVGLYFVRRRPLA
 NALASMLSMGVTLWPLLARYLLETLGWRGAFLIFGGILLHCCVCGALLRPVATNEVPEPKEDPLLPKI
 PTRSCLATCVSTIRYHLAFDILRHNMGFCIYVTGVTWMNLGFALPHIFLVPYAMHGVDDYWAAMLMSIV
 GFCNIFLRPMAGLLLAGRKSAAAYRKYLFAVAILINGLTNLICTVSADFRVLLGYCLVYSLSMCGVGILV
 FQVLMDIVPMDRFPSALGLFTILCGVTSLSIPPLAGLLLDKTNNSYVFYMSSGFLVSGSLILGVGFYAA
 EKKKLKQDGQAKMENATSEMPMHDLTSEDKDSAKKQYPYESIYMTNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9017_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080934

ORF Size: 1404 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

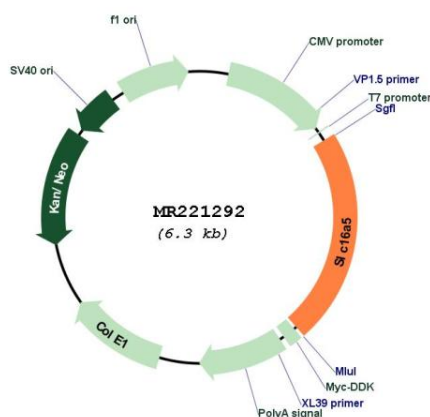
RefSeq: [NM_001080934.1](#), [NP_001074403.1](#)

RefSeq Size: 3020 bp

RefSeq ORF: 1407 bp
Locus ID: 217316
UniProt ID: [G5E8K6](#)
Cytogenetics: 11 E2
MW: 51.5 kDa

Gene Summary: Proton-linked 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221292