

Product datasheet for **MR207494**

Slc16a4 (BC025441) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc16a4 (BC025441) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc16a4
Synonyms:	MGC37305
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR207494 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGTGAAGAAGGAAAAACGCCCTCCCCTTACACCAAAACCCTTGATGGAGGATGGGGGTGGATGGTCG
 TGCTTCATTTTTCTCGTTAAATGTGTTGTGATGGGAATGACCAAGACATTTGCAATTTCTTTGTGGT
 TTTTCAAGAAGAGTTTGAAGGCCTTCAGAGCAAATTGGTTGGATTGGATCCATTATGTCATCACTCCGT
 TTCTCTGCAGGTCCCCTGGCTGCTATCATCTGTGACGTACTTGGAGAGAAAGCTACCTCCATTCTTGGGA
 CGTTCTTGTCTCTGGTGGCTATGTATCAGCAGCTGGGCCACAGGCATTCCCTTTCTTTGTGTGACCAT
 GGGGCTGTACCTGGTTTGGGATCTGCTTTCTGTACCAAGTAGCTGCTGTGTAATTACCAATATTTT
 AAAAAACGATTGGGCCTTTCTACAGCAATTGCCGTTCTGGAATGGGGCTGACATTTTTGTGGCACCT
 TTACAAAATTCCTCATAGATCTTTATGACTGGACAGGCGCTCTTATTTTATTTGGAGCAATTATTTGAA
 CTTGGTGCCTTCAGCATGCTCTTAAGACCCATCCACAGCCAATCAAACAACAATTCTGACATTGAAAAC
 AAAGGTAGCATTTTGTCTGCAACTGAACCAGAGGCATCATACAAGACAGAGACATCGAAGTGCAAGGAGA
 CACAGGAGCCTTTTCATCAAGACAGTACTATGAAGAAATCTGAACAACCTACCACAACCTTAACGTCTT
 AGGAAATCAAAGCGAAGAGTTTCAGCAATAGGCCTCACAGGAACAGGCCGTTACTTATGAGCAATGGCAAA
 AGTCACAAGAAAAAGTTTGTTCATGGAAGTCAAAACAAAACTTTTAGATATCTCGCTCTTTAGAAACC
 CTTTCTTCTACATTTTACCTGGTCTTTTCTCTGAGCCAATTAGCATATTTTATTCCCACTTTCCACCT
 AGTAGCCAGAGCAAAACACTTGGGATTGACGTAATGGATGCCTCCTACCTGTGTCTGTAGCTGGTATC
 ACTGAGACAGTCAGTCAGCTCATTCTGGATGGATTGCTGATCAAAATTGGATCAAGAAGTATCAATACC
 ACAAGTCTTACCTCATTCTGTGTGGTGTGACTAACCTGCTTCTCTTTAGCCACCACATTCCCCTCTCT
 TATGGCCTATACCATCCTTTTTGCCATTTTGTGCTGGTGGCTACCTGGCACTAATACTGCCAGTATTGGTT
 GACCTATCTAAGAATTCTAGAGTACACAAGTTTTTGGGATATGCCAGTTTCTTTGCCGGGATAGCTGTAC
 TTTCTGGACCACCAATAGCAGATGTAACCTCATGGTGGACCACTTACCTAATGCACATGAAGCCCTTGAA
 AACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

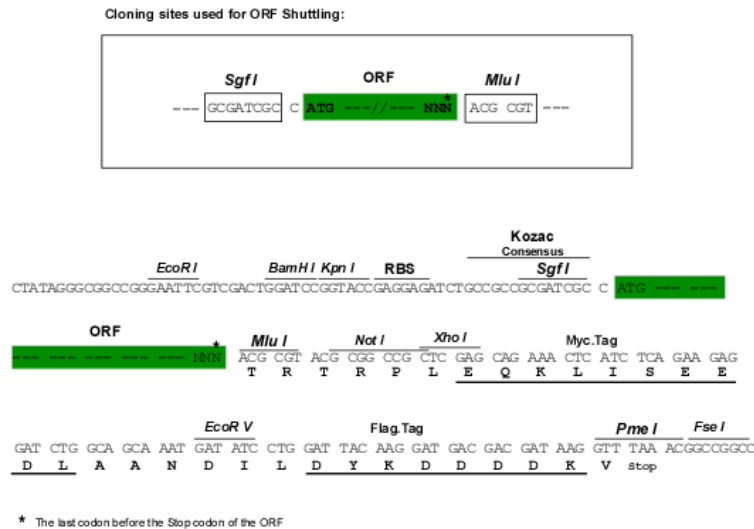
>MR207494 protein sequence
 Red=Cloning site Green=Tags(s)

MVKKEKTPSPYTKPLDGGWGMVVLHFFLVNVFVMGMTKTF AIFVVFQEEFEGTSEQIGWIGSIMSSLR
 FSAGPLAAIICDVLGEKATSILGTFLVSGGYVISSWATGIPFLCVTMGLLPGLGSAFLYQVAAVITKYF
 KKRLGLSTAIARSGMGLTFLLAPFTKFLIDL YDWTGALILFGAILNLVPSSMLLRPIHSQSNNSDIEN
 KGSILSATEPEASYKTETSKCKETQEPFIKDSTMKKSEQPTTTTLVLGNQSEEF SNRPHNRPLMSNGK
 SHKKKFVSWNCKQKLLDISLFRNPFFYIFTWSFLLSQLAYFIPTFHLVARAKTLGIDVMDASYLVSVAGI
 TETVSQLISGWIADQNWKYQYHKS YLILCGVTNLLAPLATTFPLLMAYTILFAIFAGGYLALILPVLV
 DLSKNSRVHKLGYASFFAGIAVLSGPPIADVTHGWTTYLMMHKPLKT

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC025441

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: [BC025441](#), [AAH25441](#)

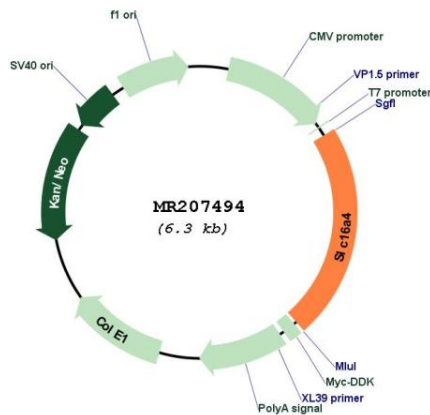
RefSeq Size: 1809 bp

RefSeq ORF: 1406 bp

Locus ID: 229699

Cytogenetics:	3 F2.3
MW:	51.9 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 MR207494