

Product datasheet for **MG207494**

Slc16a4 (BC025441) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc16a4 (BC025441) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc16a4
Synonyms:	MGC37305
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207494 representing BC025441
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGAAGAAGGAAAAACGCCCTCCCCTTACACCAAACCCCTTGATGGAGGATGGGGGTGGATGGTCC
 TGCTTCATTTTTCTCGTAAATGTGTTGTGATGGGAATGACCAAGACATTTGCAATTTCTTTGTGGT
 TTTTCAAGAAGAGTTTGAAGGCCTTCAGAGCAAATTGTTGGATTGGATCCATTATGTCATCACTCCGT
 TTCTCTGCAGGTCCCCTGGCTGCTATCATCTGTGACGTAAGGAGAGAAAGCTACCTCCATTCTTGGGA
 CGTTCTTGTCTCTGGTGGCTATGTCATCAGCAGCTGGGCCACAGGCATTCCTTTCTTTGTGTGACCAT
 GGGGCTGCTACCTGGTTGGGATCTGCTTTCTGTACCAAGTAGCTGCTGTGTAATTACCAATATTTT
 AAAAAACGATTGGGCCTTTCTACAGCAATTGCCGTTCTGGAATGGGGCTGACATTTTTGTGGCACCT
 TTACAAAATTCCTCATAGATCTTATGACTGGACAGCGCTCTATTTTATTTGGAGCAATTATATTGAA
 CTTGGTGCCTCCAGCATGCTCTTAAGACCCATCCACAGCCAATCAAACAACAATTCTGACATTGAAAAC
 AAAGGTAGCATTTTGTCTGCAACTGAACAGAGGCATCATACAAGACAGAGACATCGAAGTGCAAGGAGA
 CACAGGAGCCTTTCATCAAGACAGTACTATGAAGAAATCTGAACAACCTACCACAACCTTAACTGTCTT
 AGGAAATCAAAGCGAAGAGTTTTCAGCAATAGGCCTCACAGGAACAGGCCGTTACTTATGAGCAATGGCAA
 AGTCACAAGAAAAAGTTTGTTCATGGAAGTGAACAAAAAACTTTTAGATATCTCGCTCTTTAGAAACC
 CTTTCTTACATTTTTACCTGGTCTTTCTCTGAGCCAATTAGCATATTTTCACTCCACTTTCCACCT
 AGTAGCCAGAGCAAAAACACTTGGGATTGACGTAATGGATGCCTCCTACCTGTGTCTGTAGCTGGTATC
 ACTGAGACAGTCAGTCAGCTCATTCTGGATGGATTGCTGATCAAAATTGGATCAAGAAGTATCAATACC
 ACAAGTCTTACCTCATTCTGTGGTGTGACTAACCTGCTTCTCTTTAGCCACCACATCCCACTCCT
 TATGGCCTATACCATCCTTTTTGCCATTTTTGCTGGTGGCTACCTGGCACTAATACTGCCAGTATTGGTT
 GACCTATCTAAGAATTCTAGAGTACACAAGTTTTTGGGATATGCCAGTTTCTTTGCCGGGATAGCTGTAC
 TTTCTGGACCACCAATAGCAGATGTAACCTCATGGTGGACCACCTTACCTAATGCACATGAAGCCCTTGAA
 AACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207494 representing BC025441
 Red=Cloning site Green=Tags(s)

MVKKEKTPSPYTKPLDGGWGMVVLHFFLVNVFVMGMTKTFAIFFVVFQEEFEGTSEQIGWIGSIMSSLR
 FSAGPLAAIICDVLGEKATSILGTFVSGGYVISSWATGIPFLCVMGLLPGLGSAFLYQVAAVVITKYF
 KKRLGLSTAIARSGMGLTFLLAPFTKFLIDLWDWTGALILFGAILNLVPSSMLLRPIHSQSNNSDIEN
 KGSILSATEPEASYKTETSKCKETQEPFIKIDSTMKKSEQPTTTLTVLGNQSEEF SNRPHRNRPLLSNGK
 SHKKKFVSWNCKQKLLDISLFRNPFYIFTWSFLLSQLAYFIPTFHLVARAKTLGIDVMDASYLVSVAGI
 TETVSQLISGWIADQNWIKKYQYHKSYLILCGVTNLLAPLATTFFLLMAYTILFAIFAGGYLALILPVLV
 DLSKNSRVHKFLGYASFFAGIAVLSGPPIADVTHGWTTYLMHMKPLKT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC025441

ORF Size: 1406 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: [BC025441](#), [AAH25441](#)

RefSeq Size: 1809 bp

RefSeq ORF: 1406 bp

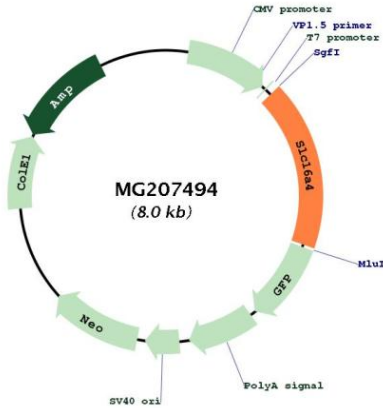
Locus ID: 229699

Cytogenetics: 3 F2.3

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 MG207494