

Product datasheet for **RG234096**

SLC16A4 (NM_001201546) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A4 (NM_001201546) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC16A4
Synonyms:	MCT4; MCT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG234096 representing NM_001201546 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGAAGAGGGAGGGGAAGGTCCAACCTTACACTAAAACCTGGATGGAGGATGGGGATGGATGATTG
 TGATTCATTTTTCTGGTGAATGTGTTGTGATGGGGATGACCAAGACTTTTGAATTTCTTTGTGGT
 CTTTCAAGAAGAGTTTGAAGGCACCTCAGAGCAAATTGGTTGGATTGGATCCATCATGTCATCTCTCGT
 TTTTGTGCAAGTTTGGGTTCTGCTTTCTATACCAAGTGGCTGCTGTGGTAACTACCAAATACTTCAAAA
 AACGATTGGCTCTTTCTACAGCTATTGCCGTTCTGGGATGGGACTGACTTTTCTTTGGCACCCCTTTAC
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 GCAGCAGTTTGTCTGCACATGGTCCAGAGGCACATGCAACAGAAACACACTGCCATGAGACAGAAGAGTC
 TACCATCAAGGACAGTACTACGCAGAAGGCTGGACTACCTAGCAAAATTTAACAGTCTCACAAATCAA
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 TTGGTCTTTTCTCCTCAGTCAGTTAGCATACTTCATCCCTACCTTTACCTGGTAGCCAGAGCCAAAACA
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 CAGTAAACAGGTTTTTGGGACTTGCCAGTTTCTTTGCTGGGATGGCTGTCCTTTCTGGACCACCTATAGC
 AGGCTGGTTATATGATTATACCCAGACATACAATGGCTCTTTCTACTTCTCTGGCATATGCTATCTCCTC
 TCTTCAGTTTCTTTTTTTTGTACCATTGGCCGAAAGATGGAACAGTCTGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG234096 representing NM_001201546
 Red=Cloning site Green=Tags(s)

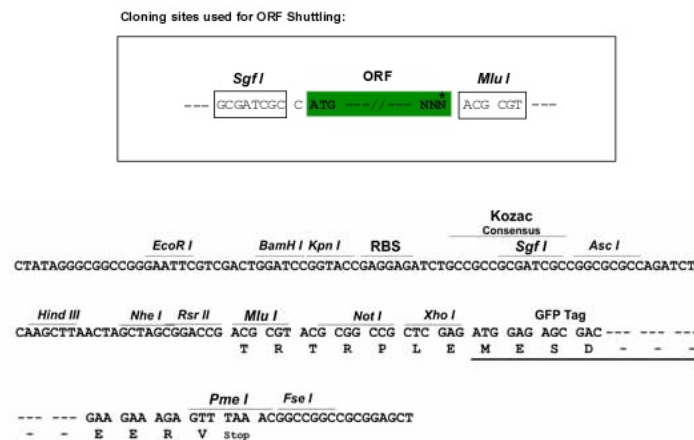
MLKREGKVQPYTKTLDGGWGMIVIHFFLVNVFVMGMTKTF AIFVVFQEEFEGTSEQIGWIGSIMSSLR
 FCAGLGS AFLYQVA AVTTKYFKKRLALSTAIARSGMGLTFLAPFTKFLIDL YDWTGALILFGAIALNL
 VPSSMLLRPIHIKSENNSGIKDKGSSL SAHGPEAHATETHCHETEESTIKDSTTQKAGLPSKNLTVSQNQ
 SEEFYNGPNRNRLLLSDEESDKVISWCKQLFDISLFRNPFFYIFTWSFLLSQLAYFIPTFHLVARAKT
 LGIDIMDASYLVSVAGILETVSQIISGWVADQNWIKKYHYHKS YLILCGITNLLAPLATTFFLLMTYTIC
 FAIFAGGYLALILPVLVDLCRNSTVNRFLGLASFFAGMAVLSGPPIAGWLYDYTQTYNGSFYFSGICYLL
 SSVSFFFVPLAERWKNSLT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001201546

ORF Size: 1317 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_001201546.2](#)

RefSeq Size: 2485 bp

RefSeq ORF: 1320 bp

Locus ID: 9122

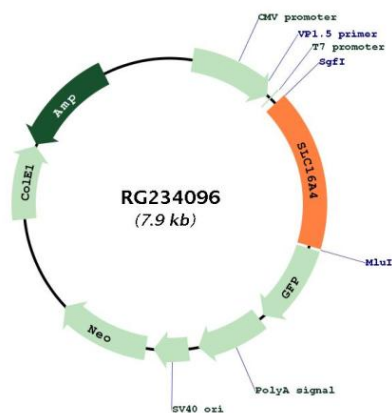
UniProt ID: [O15374](#)

Cytogenetics: 1p13.3

Protein Families: Transmembrane

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 RG234096