

Product datasheet for **RG234309**

SLC16A5 (NM_001271765) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A5 (NM_001271765) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC16A5
Synonyms:	MCT5; MCT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234309 representing NM_001271765
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGCCCCAGGCCCTGGAGCGTGCAGATGGCAGCTGGGCCTGGGTGGTGTCTGCTGGCCACCATGGTGACCC
 AGGGCCTCACCTGGGCTTCCCCACGTGTATCGGCATCTTCTTCACTGAATTGCAATGGGAGTTCCAGGC
 CAGCAACAGCGAGACCTCTTGGTCCCCCTCCATCCTCACGGCTGTGCTCCACATGGCAGGGCCCCCTGTGC
 AGCATCCTGGTGGGACGCTTCGGCTGCCGAGTGACCGTGATGCTGGGGGGCGTGCTGGCCAGCCTGGGCA
 TGGTGGCCAGCTCCTTCTCTACAACCTCAGCCAGCTCTACTTCACAGCAGGATTCATCACAGGCCTGGG
 CATGTGCTTCAGCTTCAGTCAAGCATCACGGTGTGGGCTTCTACTTTGTCCGCCGGCGGGTGTGGCC
 AACCGCTGGCCTCGATGGGCGTCTCCCTGGGCATCACCTCTGGCCGCTGCTCTCCGCTACCTTCTGG
 AGAACCTGGGCTGGAGGGGTACCTTCTTGTCTTCGGCGGGATCTTTCTCACTGCTGCATCTGCGGGC
 CATCATAAGGCCTGTGGCCACCACTGTGGCCCCTGAGACCAAAGAATGTCCCCGCCACCTCCCGAGACA
 CCTGCACTTGGCTGCCTGGCTGCATGCGCCGGACCATCCAGCGCCACCTGGCCTTCGACATCCTGCGGC
 ACAACACAGGCTACTGCGTGTACATACTGGGTGTGATGTGGTCCGTCTGGGCTTCCCACTGCCACAAGT
 CTTCTGGTGCCATATGCCATGTGGCACAGCGTGGACGAGCAGCAGGCAGCCCTCCTCATCTCCATCATC
 GGCTTCAGCAACATCTTCTGAGGCCCTAGCCGGGCTGATGGCAGGACGGCCGGCCTTTGCTAGCCACC
 GCAAGTACCTGTTTCAGCCTGGCACTCCTGCTCAATGGGCTCACTAACCTGGTGTGTGCGGCATCAGGTGA
 CTTCTGGGTGCTCGTGGGCTACTGCCTGGCGTACAGCGTGTCCATGAGTGGCATCGGCGCCCTCATCTTC
 CAGGTTCTCATGGACATCGTCCCATGGATCAGTTCCTCCAGAGCCCTGGGACTCTTCACTGTCTGGACG
 GCCTTGCTTTCTCATCTCCCCACCACTGGCCGGGTGCTCCTGGACGCCACCAACAACCTTAGCTATGT
 TTTCTACATGTCCAGCTTCTTCTCATCTCAGCTGCCCTCTTCATGGGTGGCAGCTTCTACGCCCTGCAG
 AAGAAGGAGCAAGGCAAGCAGGCTGTGCGGCGGATGCCCTGGAGCGGGATCTTTTCTTGAAGCCAAG
 ACGGTCTGGGAAGCAACGGTCCCCTGAGATCATGTGCCAGTCTTCCGCCAGCCACGTCCAGCTGGCGT
 CAATAAGCATCTTTGGGATGTCTGCCTCCTCCAGGACCAGCCATGAGTGGCTCTATGGCCAAAGGCG
 GTACTGCAGGCCAAGCAAACGGCTCTGGGCTGGAATAGCCCTACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234309 representing NM_001271765
 Red=Cloning site Green=Tags(s)

MPQALERADGSWAVVLLATMVTQGLTLGFPTCIGIFFTELQWEFQASNSETSWFPSILTAVLHMAGPLC
 SILVGRFGCRVTYMLGGVLASLGMVASSFSHNLSQLYFTAGFITGLGMCFSFQSSITVLGFYFVRRRVLA
 NALASMGVSLGITLWPLLSRYLLENLGWRGTFLVFGGIFLHCCICGAIIRPVATSVAPETKECPPPPET
 PALGCLAACGRTIQRHLAFDILRHNTGYCVYILGVMWSVLGFPLPQVFLVPYAMWHSVDEQQAALLISII
 GFSNIFLRPLAGLMAGRPAFASHRKYLFSALLNGLTNLVCAASGDFWVLVGYCLAYSVSMSGIGALIF
 QVLMDIVPMDQFPRALGLFTVLDGLAFLISPLAGLLLDATNNSYVFYMSFFLISAALFMGGSFYALQ
 KKEQKQKQVAADALERDLFLEAKDGPQKQSRPEIMCQSSRQPRPAGVKNHLWGCPASSRTSHEWLLWPKA
 VLQAKQTALGWSPT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001271765

ORF Size: 1515 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_001271765.2](#)

RefSeq Size: 2032 bp

RefSeq ORF: 1518 bp

Locus ID: 9121

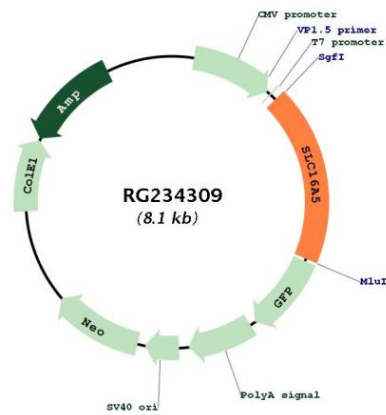
UniProt ID: [O15375](#)

Cytogenetics: 17q25.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the monocarboxylate transporter family and the major facilitator superfamily. The encoded protein is localized to the cell membrane and acts as a proton-linked transporter of bumetanide. Transport by the encoded protein is inhibited by four loop diuretics, nateglinide, thiazides, probenecid, and glibenclamide. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RG234309