

Product datasheet for **RG201961**

SLC16A5 (NM_004695) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A5 (NM_004695) 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)



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ORF Nucleotide Sequence:

>RG201961 representing NM_004695
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCCAGGCCCTGGAGCGTGCAGATGGCAGCTGGGCCTGGGTGGTGTCTGCTGGCCACCATGGTGACCC
 AGGGCCTCACCTGGGCTTCCCCACGTGTATCGGCATCTTCTTCACTGAACTGCAATGGGAGTTCCAGGC
 CAGCAACAGCGAGACCTCTTGGTCCCCTCCATCCTCACGGCTGTGCTCCACATGGCAGGGCCCCCTGTGC
 AGCATCCTGGTGGGACGCTTCGGCTGCCGAGTGACCGTGTGCTGGGGGGCGTGTGCCAGCCTGGGCA
 TGGTGGCCAGCTCCTTCTCACAACCTCAGCCAGCTCTACTTCACAGCAGGATTCATCACAGGCCCTGGG
 CATGTGCTTCAGCTTCCAGTCAAGCATCACGGTGTGGGCTTCTACTTTGTCCGCCGGCGGGTGTGGCC
 AACCGCTGGCCTCGATGGGCGTCTCCCTGGGCATCACCTCTGGCCGCTGCTCTCCGCTACCTTCTGG
 AGAACCTGGGCTGGAGGGGTACCTTCTTGTCTTCGGCGGGATCTTCTCCACTGCTGCATCTGCGGGC
 CATATAAGGCCGTGGCCACCAGTGTGGCCCCGTGAGACCAAGAATGTCCCCGCCACCTCCCGAGACA
 CCTGCACTTGGCTGCCTGGCTGCATGCGGCCGGACCATCCAGCGCCACCTGGCCTTCGACATCCTGCGGC
 ACAACACAGGCTACTGCGTGTACATACTGGGTGTGATGTGGTCCGTCTGGGCTTCCCCTGCCACAAGT
 CTTCTGGTGCCATATGCCATGTGGCACAGCGTGGACGAGCAGCAGGCAGCCCTCCTCATCTCCATCATC
 GGCTTCAGCAACATCTTCTGAGGCCCTAGCCGGGCTGATGGCAGGACGGCCGGCCTTTGCTAGCCACC
 GCAAGTACCTGTTACGCTGGCACTCCTGCTCAATGGGCTCACTAACCTGGTGTGTGCGGCATCAGGTGA
 CTTCTGGTGTCTGGGCTACTGCCTGGCGTACAGCGTGTCCATGAGTGGCATCGGCGCCCTCATCTTC
 CAGGTTCTCATGGACATCGTCCCATGGATCAGTTCAGAGCCCTGGGACTTTCAGTGTCTGGAGC
 GCCTTGCCTTCTCATCTCCCCACCCTGGCGGGTGTCTCTGGAGCCACCAACAACCTTAGCTATGT
 TTTCTACATGTCCAGCTTCTTCTCATCTCAGCTGCCCTTTCATGGGTGGCAGCTTCTACGCCCTGCAG
 AAGAAGGAGCAAGGCAAGCAGGCTGTGCGGCGGATGCCCTGGAGCGGGATCTTTTCTTGAAGCCAAAG
 ACGGCTCTGGGAAGCAACGGTCCCCTGAGATCATGTGCCAGTCTTCCCGCAGCCACGTCCAGCTGGCGT
 CAATAAGCATCTTTGGGATGTCTGCCTCCTCCAGGACCAGCCATGAGTGGCTCTTATGGCCAAAGGCC
 GTACTGCAGGCCAAGCAACGGCTCTGGGCTGGAATAGCCCTACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201961 representing NM_004695
 Red=Cloning site Green=Tags(s)

MPQALERADGSAWVLLATMVTQGLTLGFPTCIGIFFTELQWEFQASNSETSWFPSILTAVLHMAGPLC
 SILVGRFGCRVTVMLGGVLAASLGMVASSFSHNLSQLYFTAGFITGLGMCFSFQSSITVLGFYFVRRRVLA
 NALASMGVSLGITLWPLLSRYLLENLWGRGTFLVFGGIFLHCCICGAIIRPVATSVAPETKECPPPPPT
 PALGCLAACGRTIQRHLAFDILRHNTGYCYIILGVMWSVLGFPLPQVFLVPYAMWHSVDEQQAALLISII
 GFSNIFLRPLAGLMAGRPAFASHRKYLFSLALLNGLTNLVCAASGDFWVLVGYCLAYSVMSGIGALIF
 QVLMDIVPMDQFPRALGLFTVLDGLAFLISPPLAGLLLDATNNFSYVFYMSFFLISAALFMGGSFYALQ
 KKEQKGQAVAADALERDLFLEAKDGPQKRSPEIMCQSSRQPRPAGVKNHLWGCPASSRTSHEWLLWPKA
 VLQAKQTALGWSNPT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_004695

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_004695.2](#), [NP_004686.1](#)

RefSeq Size: 1940 bp

RefSeq ORF: 1518 bp

Locus ID: 9121

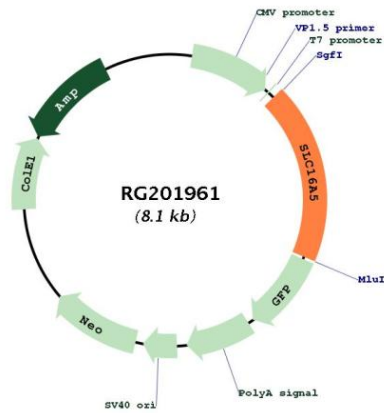
UniProt ID: [O15375](#)

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 RG201961