

Product datasheet for **RC201961**

SLC16A5 (NM_004695) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A5 (NM_004695) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC16A5
Synonyms:	MCT5; MCT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC201961 representing NM_004695.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCCCAGGCCCTGGAGCGTGCAGATGGCAGCTGGGCCTGGGTGGTGTCTGCTGGCCACCATGGTGACC
CAGGGCCTCACCTGGGCTTCCCACGTGTATCGGCATCTTCTTACTGAACTGCAATGGGAGTTCCAG
GCCAGCAACAGCGAGACCTCTTGGTTCCCTCCATCCTCACGGCTGTGCTCCACATGGCAGGGCCCTG
TGCAGCATCCTGGTGGGACGCTTCGGCTGCCGAGTGACCGTGATGCTGGGGGGCTGCTGGCCAGCCTG
GGCATGGTGGCCAGCTCCTTCTCTCACAACTCAGCCAGCTCTACTTCACAGCAGGATTCATCACAGGC
CTGGGCATGTGCTTCAGCTTCCAGTCAAGCATCACGGTGTGGGCTTCTACTTTGTCGCGCGGGGGTG
CTGGCCAAACGCGTGGCCTCGATGGGCTCTCCCTGGGCATCACCTCTGGCCGCTGCTCTCCCGCTAC
CTTCTGGAGAACCTGGGCTGGAGGGTACCTTCTTGTCTTCGGCGGGATCTTTCTCCACTGCTGCATC
TGGCGGGCCATCATAAGGCCTGTGGCCACCAAGTGTGGCCCTGAGACCAAGAATGTCCCCGCCACCT
CCCAGACACCTGCATTTGGCTGCCTGGCTGCATGCGGCCGACCATCCAGCGCCACCTGGCCTTCGAC
ATCCTGCGGCACAACACAGGCTACTGCGTGTACATACTGGGTGTGATGTGGTCCGCTCCTGGGCTTCCCA
CTGCCACAAGTCTTCTGGTGCCATATGCCATGTGGCACAGCGTGGACGAGCAGCAGGCAGCCCTCCTC
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TTTGCTAGCCACCGAAGTACCTGTTACAGCCTGGCACTCTGCTCAATGGGCTCACTAACCTGGTGTGT
GCGGCATCAGGTACTTCTGGGTGCTCGTGGGCTACTGCCTGGCGTACAGCGTGTCCATGAGTGGCAGC
GGCGCCCTCATCTCCAGGTTCTCATGGACATCGTCCCATGGATCAGTCCCCAGAGCCCTGGGACTC
TTCATGTCCTGGACGGCCTTGTCTTCTCATCTCCCCACCACTGGCCGGGTTGCTCTGGACGCCACC
AACAACTTTAGCTATGTTTTCTACATGTCCAGTCTTCTCCTCATCTCAGCTGCCCTTTCATGGGTGGC
AGCTTCTACGCCCTGAGAAGAAGGAGCAAGGCAAGCAGGCTGTGCGCGGGATGCCCTGGAGCGGGAT
CTTTTCTTGAAGCCAAAGACGGTCTGGGAAGCAACGGTCCCCTGAGATCATGTGCCAGTCTTCCCGC
CAGCCACGTCCAGCTGGCGTCAATAAGCATCTTTGGGGATGCTCCTGCCTCCTCCAGGACCAGCCATGAG
TGGCTCTTATGGCCAAAGGCGGTACTGCAGGCCAAGCAAACGGCTCTGGGCTGGAATAGCCCTACC
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

Protein Sequence:

>Peptide sequence encoded by RC201961
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MPQALERADGSWAWVLLATMVTQGLTLGFPTCIGIFFTELQWEFQASNSETSWFPSILTAVLHMAGPL
CSILVGRFGCRVTYMLGGVLAASLGMVASSFSHNLSQLYFTAGFITGLGMCFSFQSSITVLGFYFVRRRV
LANALASMGVSLGITLWPLLRYLLENLWWRGTFVFGGIFLHCCICGAIIRPVATSVAPETKECPPPP
PETPALGCLAACGRTIQRHLAFDILRHNTGYCVYILGVMWSVLGFPLPQVFLVPYAMWHSVDEQQAALL
ISIIIGFSNIFLRPLAGLMAGRPAFASHRYLFSLLALLNGLTNLVCAASGDFWVLVGYCLAYSVMSGI
GALIFQVLMDIVPMDQFPRALGLFTVLDGLAFLISPPLAGLLLDATNNSYVFYMSFFLISAALFMGG
SFYALQKKEQKQAVAADALERDLFLEAKDGPGRSPEIMCQSSRQPRPAGVKNHLWGPCASSRSTSH
WLLWPKAVLQAKQTALGWNST
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

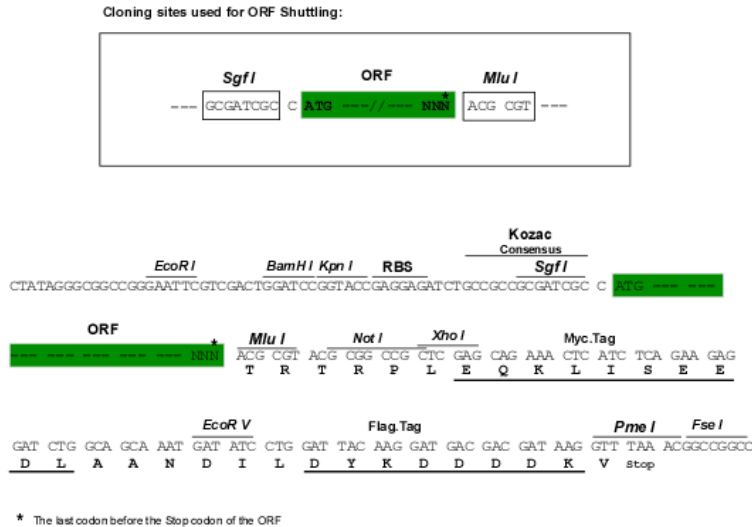
Chromatograms:

https://cdn.origene.com/chromatograms/ja1678_b03.zip

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](#)

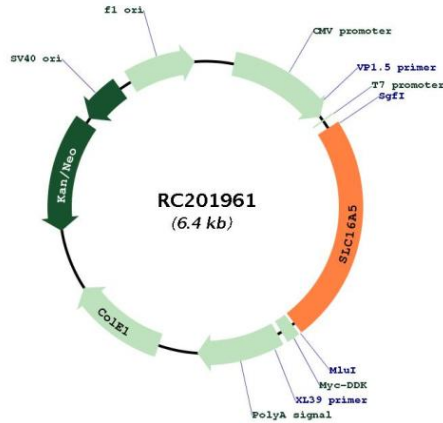
Cytogenetics: 17q25.1

Protein Families: Transmembrane

MW: 55 kDa

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 RC201961