

Product datasheet for **RC221552**

SLC16A13 (NM_201566) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A13 (NM_201566) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC16A13
Synonyms:	MCT13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC221552 representing NM_201566
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGCAGGACAGAGCCCCGACGGGGCTGGGATGGGTGGTGGTCTCTCAGCGTTCTTCCAGT
 CGGCGCTTGTTGGGGTGCTCCGCTCCTTTGGGGTCTTCTTCGTGGAGTTGTGGCGGCGTTGAGGA
 GCAGGCAGCGCGCTCTCTGGATCGCCTCCATAGGAATCGCGGTGCAGCAGTTTGGGAGCCCGTAGGC
 AGTGCCCTGAGCACGAAGTTCGGGCCAGGCCGCTGGTGTGACTGGAGGCATCTTGGTGCGCTGGGGA
 TGCTGCTCGCCTCTTTGCTACTTCCTTGACCCACCTATACCTGAGTATTGGGTTGCTGTGAGGCTCTGG
 CTGGGCTTTGACCTTCGCTCCGACCTGGCCTGCCTGTCTGTTATTTCTCTCGCCGACGATCCCTGGCC
 ACCGGGCTGGCACTGACAGGCGTGGGCTCTCCTCCTCACATTTGCCCCCTTTTCCAGTGGCTGCTCA
 GCCACTACGCTGGAGGGGGTCCCTGCTGCTGGTGTCTGCCCTCTCCCTCCACCTAGTGGCTGTGGTGC
 TCTCTCCGCCACCCTCCCTGGCTGAGGACCCTGCTGTGGGTGGTCCCAGGGCCCAACTCACCTCTCTC
 CTCCATCATGGCCCTTCTCTCGTTACACTGTTGCCCTCACCTGATCAACACTGGCTACTTCAATCCCT
 ACCTCCACCTGGTGGCCATCTCCAGGACCTGGATTGGGACCCACTACCTGCTGCCTTCTACTCTCAGT
 TGTTGCTATTTCTGACCTCGTGGGCGTGTGGTCTCCGGATGGCTGGGAGATGCAGTCCCAGGGCCTGTG
 ACACGACTCCTGATGCTCTGGACCACCTTGACTGGGGTGTCACTAGCCCTGTTCCCTGTAGCTCAGGCTC
 CCACAGCCCTGGTGGCTCTGGCTGTGGCTACGGCTTACATCAGGGGCTCTGGCCCCACTGGCCTTCTC
 CGTGCTGCCTGAATAATAGGACTAGAAGGATTTACTGTGGCTGGGACTGTTGCAGATGATAGAGAGC
 ATCGGGGGGCTGCTGGGGCTCCTCTCTCAGGCTACCTCCGGGATGTGACAGGCAACTACACGGCTTCTT
 TTGTGGTGGCTGGGGCTTCTTCTTTTTCAGGAGTGGCATTCTCTCACCTGCCCACTTCTTCTGCTT
 CTCAACTACTACCTCCGGGCCAGGACCTGTAAACAGAAGCACTAGATACTAAAGTTCCCTACCCAAG
 GAGGGGCTGGAAGAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221552 representing NM_201566
 Red=Cloning site Green=Tags(s)

MARRTEPPDGGWGWVVLSAFFQSALVFGVLRSGVFFVEFVAAFEEQAARVSWIASIGIAVQQFGSPVG
 SALSTKFGPRPVMTGGILAALGMLLASFATSLTHLYLSIGLLSGSGWALTFAPTLACLSCYFSRRRSLA
 TGLALTGVGLSSFTFAPFFQWLLSHYAWRGSLLLVSALSLHLVACGALLRPPSLAEDPAVGGPRAQLTSL
 LHHGPFLRYTVALTLINTGYFIPYLHLVAHLQDLWDPLPAAFLLSVVAISDLVGRVVSGLGDVPGPV
 TRLLMLWTTLTGVSLALFPVAQAPTALVALAVAYGFTSGALAPLAFSVLPELIGTRRIYCGLLQMIES
 IGGLLGPPLSGYLRDVTGNYTASFVVAGAFLLSGSGILLTLPHFFCFSTTSGPQDLVTEALDTKVPLPK
 EGLEED

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8013_h10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_201566

ORF Size: 1278 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_201566.3](#)

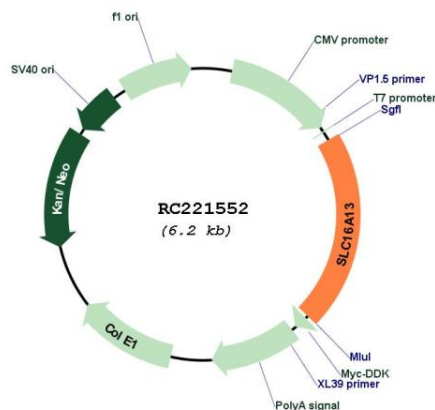
RefSeq Size: 1281 bp

RefSeq ORF: 1281 bp

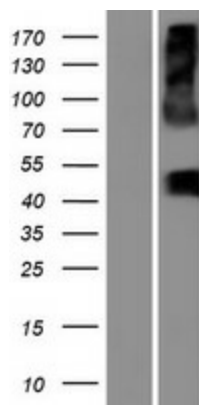
Locus ID: 201232

UniProt ID:	<u>Q7RTY0</u>
Cytogenetics:	17p13.1
Protein Families:	Transmembrane
MW:	44.8 kDa
Gene Summary:	Proton-linked monocarboxylate transporter. May catalyze the transport of monocarboxylates across the plasma membrane.[UniProtKB/Swiss-Prot Function]

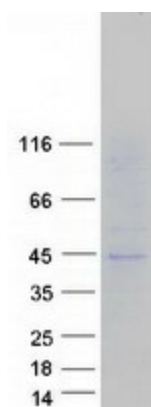
Product images:



Circular map for RC221552



Western blot validation of overexpression lysate (Cat# [LY404464]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221552 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SLC16A13 protein (Cat# [TP321552]). The protein was produced from HEK293T cells transfected with SLC16A13 cDNA clone (Cat# RC221552) using MegaTran 2.0 (Cat# [TT210002]).