

Product datasheet for **RC209008**

Monocarboxylate transporter 14 (SLC16A14) (NM_152527) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Monocarboxylate transporter 14 (SLC16A14) (NM_152527) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Monocarboxylate transporter 14
Synonyms:	MCT14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC209008 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTATACCAGTCATGAAGATATTGGGTATGATTTTGAAGATGGCCCCAAGACAAAAGACACTGAAGC
 CCCACCCAAACATTGATGGCGGATGGGCTTGATGATGGTGCTCTCTCTTTCTTTGTGCACATCCTCAT
 CATGGGCTCCCAGATGGCCCTGGGTGTCCTCAACGTGGAATGGCTGGAAGAATCCACCAGAGCCGCGGC
 CTGACCGCCTGGGTGAGTCCCTCAGCATGGGCATCACCTTGATAGTGGGCCCTTTCATCGGCTTGTTC
 TTAACACCTGTGGGTGCCGCCAGACTGCGATCATTGGAGGGCTCGTCACTCCCTGGGCTGGGTGTTGAG
 TGCCTATGCTGCAACGTGCATTATCTCTTCACTTTTGGAGTCGAGCTGGCCTGGGCGAGCGGGATG
 GCCTACCTGCCAGCGGTGGTCATGGTGGGAGGTATTTCCAGAAGAGACGCGCCCTCGCCAGGGCCTCA
 GCACCACGGGACCGGATTCGGTACGTTCTAATGACTGTGCTGCTGAAGTACCTGTGCGCAGAGTACGG
 CTGGAGGAATGCCATGTTGATCCAAGTGCCGTTTCCCTAAACCTGTGTGTTTGTGGGGCGCTCATGAGG
 CCCTCTCTCTGGTAAAAACCCAAACGACCCAGGAGAGAAAGATGTGCGTGGCCTGCCAGCGCACTCCA
 CAGAATCTGTGAAGTCAACTGGACAGCAGGGAAGAAGAGAAGGATGGTGGGCTCGGGAACGAGGA
 GACCTCTGCGACCTGCAAGCCAGGAGTGCCCGATCAGGCCGGGCACAGGAAGAAGATGTGTGCCCTC
 CGGATTCTGAAGACTGTGAGTGGCTCACCATGAGAGTCAGGAAGGGCTTCGAGGACTGGTATTCGGGCT
 ACTTTGGGACAGCCTCTCTATTTACAAATCGAATGTTTGTAGCCTTTATTTCTGGGCTTGTGTTGCATA
 CAGCAGCTTTGTCATCCCTTTCATTACCTCCAGAAATCGTCAATTTGTATAACTATCGGAGCAAAAC
 GACGTTTTCCCTCTGACGTCAATTATAGCAATAGTTACATCTTTGGAAGATGATCCTGGGCGTCATAG
 CCGACTTGCTTGCATTAGTGTGTTGGAATGTCTTCTGTTGGCAACTTACCCTTGTCTCAGTATTTT
 TATTCTGCCGTTGATGCACACGTACGCTGGCCTGGCGGTGATCTGTGCGCTGATAGGGTTTTCCAGTGGT
 TATTTCTCCCTAATGCCGTAAGTGAAGTGAAGTGGTGGCATTGAACACCTGGCAATGCCTACGGCA
 TCATCATCTGTGCTAATGGCATCTCTGATTGCTGGGACCACCTTTGAGGGTGGATCTATGACATCAC
 GCAAAAATATGATTTTTCTTCTACATATGTGTTTGTCTTACATGATAGGAATACTCTTTTACTTATT
 CAGCCGTGCATTGAATTATAGAACAATCCAGAAGAAAATACATGGATGGTGCACATGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209008 protein sequence
 Red=Cloning site Green=Tags(s)

MYTSHEDIGYDFEDGPKDKKTLKPHPNIDGGWAWMMVLSSFFVHILIMGSQMALGVLNVEWLEEFHQSRG
 LTAWVSSLSMGITLIVGPFIFLINTCGCRQTAIIGGLVNSLGVLSAYAAHVHYLFITFGVAAGLGSGM
 AYLPVAVMVGRYFQKRRALAQGLSTTGTGFTFLMTVLLKYLCAEYGWRNAMLIQGAVSLNLCVCGALMR
 PLSPGKNPNPDGEKDVRGLPAHSTESVKSTGQGRTEEDGGLGNEETLCDLQAQECPDQAGHRKNMCAL
 RILKTVSWLTMRVRKGFEDWYSYFGTASLFTNRMFVAFIFWALFAYSSFVIPFIHLPEIVNLNLSEQN
 DVFPLTSIIAIVHIFGKVLGVIALDLPISVWNVFLLANFTLVLSIFILPLMHTYAGLAVICALIGFSSG
 YFSLMPVVTEDLVGIEHLANAYGIIICANGISALLGPPFAGWIYDITQKYDFSFYICGLLYMIGILFLLI
 QPCIRIIEQSRKYMMDGAHV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6524_g05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_152527

ORF Size: 1530 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_152527.5](#)

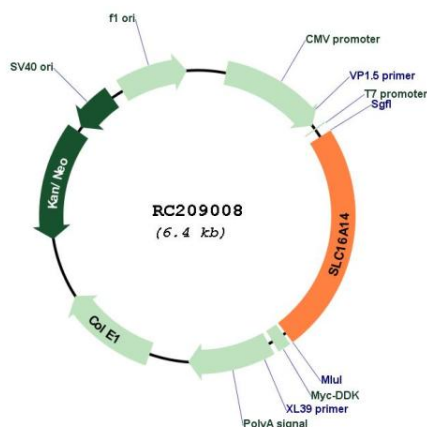
RefSeq Size: 4411 bp

RefSeq ORF: 1533 bp

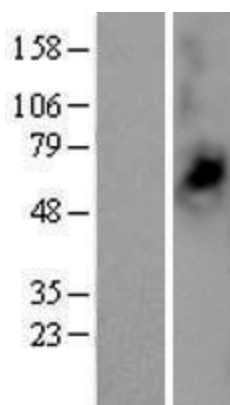
Locus ID: 151473

UniProt ID:	<u>Q7RTX9</u>
Cytogenetics:	2q36.3
Protein Families:	Transmembrane
MW:	56.3 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 RC209008



Western blot validation of overexpression lysate (Cat# [LY407481]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209008 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).