

Product datasheet for **RG209008**

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:	TurboGFP
Symbol:	Monocarboxylate transporter 14
Synonyms:	MCT14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209008 representing NM_152527
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTATACCAGTCATGAAGATATTGGGTATGATTTGAAGATGGCCCCAAAGACAAAAGACACTGAAGC
 CCCACCCAAACATTGATGGCGGATGGGCTTGATGATGGTGCTCTCTCTTTCTTTGTGCACATCCTCAT
 CATGGGCTCCCAGATGGCCCTGGGTGTCCTCAACGTGGAATGGCTGGAAGAATTCACCAGAGCCGCGGC
 CTGACCGCCTGGGTGAGTCCCTCAGCATGGGCATCACCTTGATAGTGGGCCCTTTCATCGGCTTGTTC
 TTAACACCTGTGGGTGCCGCCAGACTGCGATCATTGGAGGGCTCGTCACTCCCTGGGCTGGGTGTTGAG
 TGCCTATGCTGCAACGTGCATTATCTCTTCATTACTTTTGGAGTCGAGCTGGCCTGGGAGCGGGATG
 GCCTACCTGCCAGCGGTGGTCATGGTGGGAGGTATTTCCAGAAGAGACGCGCCCTGCCAGGGCCTCA
 GCACCACGGGGACCGGATTCGGTACGTTCTAATGACTGTGCTGCTGAAGTACCTGTGCGCAGAGTACGG
 CTGGAGGAATGCCATGTTGATCCAAGTGCCGTTCCCTAAACCTGTGTGTTGTGGGGCGCTCATGAGG
 CCCTCTCTCTGGTAAAAACCCAAACGACCCAGGAGAGAAAGATGTGCGTGGCCTGCCAGCGCACTCCA
 CAGAATCTGTGAAGTCAACTGGACAGCAGGGAAGAACAAGAGAAGGATGGTGGCTCGGGAACGAGGA
 GACCTCTGCGACCTGCAAGCCAGGAGTGCCCGATCAGGCCGGGCACAGGAAGAACAATGTGTGCCCTC
 CGGATTCTGAAGACTGTGAGTGGCTCACCATGAGAGTCAGGAAGGGCTTCGAGGACTGGTATTCGGGCT
 ACTTTGGGACAGCCTCTCTATTTACAAATCGAATGTTTGTAGCCTTTATTTCTGGGCTTGTGTTGCATA
 CAGCAGCTTTGTCATCCCTTCATTACCTCCAGAAATCGTCAATTTGTATAACTATCGGAGCAAAAC
 GACGTTTTCCCTCTGACGTCAATTATAGCAATAGTTACATCTTTGGAAGATGATCCTGGGCGTCATAG
 CCGATGCGCTTGCAATTAGTGTGGAATGTCTTCTGTTGGCAACTTACCCTTGCTCAGTATTTT
 TATTCTGCCGTTGATGCACAGTACGCTGGCCTGGCGGTGATCTGTGCGCTGATAGGGTTTTCCAGTGGT
 TATTTCTCCCTAATGCCGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
 TCATCATCTGTGCTAATGGCATCTCTGATTGCTGGGACCACCTTTGAGGGTGGATCTATGACATCAC
 GCAAAAATATGATTTTTCTTCTACATATGTGTTTGTCTTACATGATAGGAATACTCTTTTACTTATT
 CAGCCGTGCATTGAATTATAGAACAATCCAGAAGAAAATACATGGATGGTGCACATGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

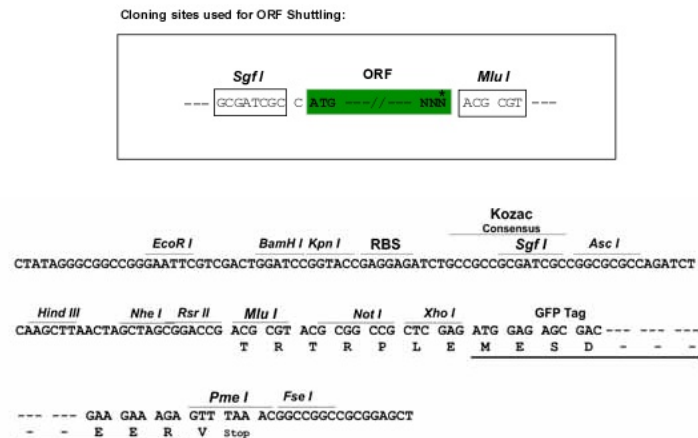
>RG209008 representing NM_152527
 Red=Cloning site Green=Tags(s)

MYTSHEDIGYDFEDGPKDKKTLKPHPNIDGGWAWMMVLSSFFVHILIMGSQMALGVLNVEWLEEFHQSRG
 LTAWVSSLSMGITLIVGPFIFGLFINTCGCRQTAIIGGLVNSLWVLSAYAAHVHYLFITFGVAAGLGSGM
 AYLPAVVMVGRYFQKRRALAQGLSTTGTGFTLMTVLLKYLCAEYGWRNAMLIQGAVSLNLCVCGALMR
 PLSPGKNPNDPGEKDVRLPAHSTESVKSTGQQGRTEEDGGLGNEETLCDLQAQECPDQAGHRKNMCAL
 RILKTVSWLTMRVRKGFEDWYSYFGTASLFTNRMFVAFIFWALFAYSSFVIPFIHLPEIVNLYNLSEQN
 DVFPLTSIIAIVHIFGKVLGVIALDLPISVWNVFLANFTLVLSIFILPLMHTYAGLAVICALIGFSSG
 YFSLMPVVTEDLVGIEHLANAYGIIICANGISALLGPPFAGWIYDITQKYDFSFYICGLLYMIGILFLLI
 QPCIRIIEQSRKYMMDGAHV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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](#)

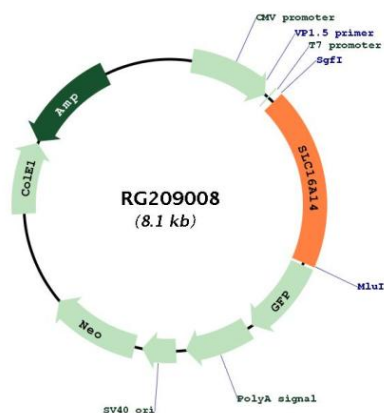
RefSeq Size: 4307 bp

RefSeq ORF: 1533 bp

Locus ID: 151473

UniProt ID:	<u>Q7RTX9</u>
Cytogenetics:	2q36.3
Protein Families:	Transmembrane
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 RG209008