

Product datasheet for **RC207999**

SLC36A4 (NM_152313) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC36A4 (NM_152313) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC36A4
Synonyms:	PAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC207999 representing NM_152313
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGCGGCGGACGCCGGCGCTGCCGGGCGGCGAGGCGGAGGAGCTAGATATGGATGTAATGA
 GGCCCTTGATAAATGAGCAGAATTTTGTGGGACATCAGATGAAGAACATGAGCAAGAGCTTCTGCCTGT
 TCAGAAGCATTACCAACTTGATGATCAAGAGGGCATTTCATTTGTACAACTCTTATGCACCTTCTTAA
 GGAAATATTGGAAGTGGCCTTTTAGGACTTCCATTGGCAATAAAAAATGCAGGCATAGTGCCTGGACCA
 TCAGCCTGTGTTATAGGAATTATTTCTGTTCACTGTATGCACATATTGGTACGTTGCAGTCACTTTCT
 ATGTCTGAGGTTTAAAAAGTCAACATTAGGTTATAGTGACACTGTGAGCTTTGCTATGGAAGTGAAGTCT
 TGGAGTTGTCTTCAGAAGCAAGCAGCATGGGGCGGAGTGTGGTTGACTTTTTCTGGTGATAACACAGC
 TGGGATTCTGTAGTGTATATTGTCTTCTAGCTGAAAATGTGAAACAAGTTCATGAAGGATTCCTGGA
 GAGTAAAGTGTATTTCAAATAGTACCAATTCATCAAACCTTGTGAGAGAAGAAGTGTGACCTAAGG
 ATATATATGCTTTGCTTTCTCCATTTATAATTCTTTGGTCTTCATTCTGTAACAAAGAAATCTATTTG
 TACTTTCACTTCCCTGCCAACGTTTCCATGGCTGTCACTTGTGATAATTTACCAGTATGTTGTCAGGAA
 CATGCCAGATCCCCACAACCTTCCAATAGTGGCTGGTTGGAAGAAATACCCACTCTTTTTGGTACTGCT
 GTATTTGCTTTTGAAGGCATAGGAGTGGTCTTCCACTGGAAAACCAATGAAAGAAATCAAAGCGTTTCC
 CTC AAGCGTTGAATTTGGCATGGGGATTGTTACAACCTTGTATGTAACATTAGCTACTTTAGGATATAT
 GTGTTCCATGATGAAATCAAAGGCAGCATAAATTTAAATCTTCCCAAGATGTATGGTTATATCAATCA
 GTGAAAATCTATATTCCTTTGGCATTGTTGTGACATATCAATTCAGTCTATGTTCCAGCAGAGATCA
 TTATCCCTGGGATCACATCCAAATTTCACTAAATGGAAGCAAATCTGTAATTTGGGATAAGATCCCT
 CTGGTTAGTATTACTTGTGCCGAGCAATTCTTATCCTCGTTAGACATTGTGATTTCCCTTCGTTGGA
 GCTGTGAGCAGCAGCATTGGCCCTAATCCTGCCACCTTTGGTTGAAATTTCTACATTTTGAAGGAAC
 ATTATAATATATGGATGGTCTGAAAAATATTTCTATAGCATTCACTGGAGTTGTTGGCTTCTTATTAGG
 TACATATATAACTGTTGAAGAAATATTTATCCTACTCCCAAAGTTGTAGCTGGCACTCCACAGAGTCTT
 TTTCTAAATTTGAATTCACATGCTTAACATCTGGTTTAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207999 representing NM_152313
 Red=Cloning site Green=Tags(s)

MEAAATPAAAGAAARREELDMDVMRPLINEQNFDGTSDEEHEQELLPVQKHYQLDDQEGISFVQTLMHLLK
 GNIGTGLLGLPLAIKNAGIVLGPISLVFIGIISVHMHILVRCSHFLCLRFKKSTLGYSDTVSFAMEVSP
 WSCLQKQAAWGRSVVDFLVIITLQGFCSVYIVFLAENVKQVHEGFLESKVFISNSTNSSNPCERRSVDLR
 IYMLCFLPFIILLVFIRELKFLVLSFLANVSMVSLVVIYQYVVRNMPDPHNLPIVAGWKYPLFFGTA
 VFAFEGIGVVLPLENQMKESKRFPQALNIGMIVTTLVYTLATLGYMCFHDEIKGSITLNLQDVLWYQS
 VKILYSFGIFVTYSIQFYVPAEIIIPGITSKFHTKWKQICEFGIRSFLVITCAGAILIPRLDIVISFVG
 AVSSSTLALILPPLVEILTFKEHYNIWMLKNISIAFTGVVGFLLGTYITVEEIIYPTPKVVAGTPQSP
 FLNLNSTCLTSLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8113_e07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_152313

ORF Size: 1512 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_152313.4](#)

RefSeq Size: 2493 bp

RefSeq ORF: 1515 bp

Locus ID: 120103

UniProt ID: [Q6YBV0](#)

Cytogenetics: 11q21

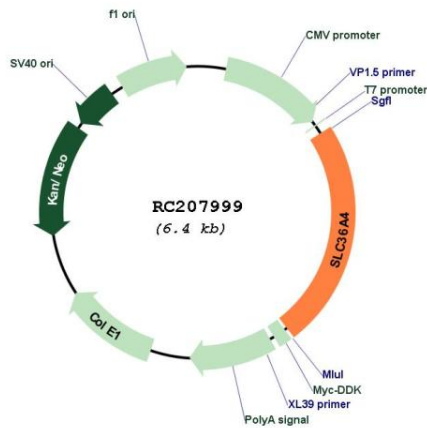
Domains: Aa_trans

Protein Families: Transmembrane

MW: 56 kDa

Gene Summary: SLC36A4 belongs to the SLC36 family of amino acid transporters based on sequence similarity with other family members (e.g., SLC36A1; MIM 606561). SLC36 proteins contain about 500 amino acids and have 9 to 11 transmembrane domains. Unlike other SLC36 family members, which are proton-coupled amino acid transporters, SLC36A4 is a high-affinity/low-capacity non-proton-coupled amino acid transporter (Pillai and Meredith, 2011 [PubMed 21097500]). [supplied by OMIM, Feb 2011]

Product images:



Circular map for RC207999