

Product datasheet for **RG207999**

SLC36A4 (NM_152313) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC36A4 (NM_152313) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC36A4
Synonyms:	PAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>NM_152313 ORF sequence, RG207999 may differ due to SNPs.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGAAGCGGCGCGACCGCGGGCTGCCGGGCGCGAGGCGGAGGCTAGATATGGATGTAATG
AGGCCCTTGATAAATGAGCAGAATTTTGTGGACATCAGATGAAGAACATGAGCAAGAGCTTCTGCCT
GTTCAGAAGCATTACCACTTGATGATCAAGAGGCATTTTCATTTGTACAACTCTTATGCACCTTCTT
AAAGGAAATATTGGAAGTGGCCTTTTAGGACTTCCATTGGCAATAAAAAATGCAGGCATAGTGCTTGA
CCAATCAGCCTTGTGTTATAGGAATTATTTCTGTTCACTGTATGCACATATTGGTACGTTGCAGTCAC
TTTCTATGTCTGAGGTTTAAAAAGTCAACATTAGGTTATAGTGACACTGTGAGCTTTGCTATGGAAGTG
AGTCTTGGAGTTGTCTTCAGAAGCAAGCAGCATGGGGCGGAGTGTGGTTGACTTTTTTCTGGTGATA
ACACAGCTGGGATTCTGTAGTGTATATTGTCTTCTTAGCTGAAAATGTGAAACAAGTTCATGAAGGA
TTCTGGAGAGTAAAGTGTATTTCAAATAGTACCAATTCATCAAACCTTGTGAGAGAAGAAGTGT
GACCTAAGGATATATATGCTTTGCTTTCTCCATTTATAATTCTTTTGGTCTTCATTCGTAACCTAAAG
AATCTATTTGACTTTTCATTCCTTGCCAACGTTTCCATGGCTGTGAGTCTTGTGATAATTTACCAGTAT
GTTGTCAGGAACATGCCAGATCCCCACAACCTTCCAATAGTGGCTGGTTGGAAGAAATACCCACTCTTT
TTTGGTACTGCTGATTTGCTTTTGAAGGCATAGGAGTGGTCTTCCACTGGAAAACCAATGAAAGAA
TCAAAGCGTTTCCCTCAAGCGTTGAATATTGGCATGGGGATTGTTACAACCTTGTATGTAACATTAGCT
ACTTTAGGATATATGTGTTTCCATGATGAAATCAAAGGCAGCATAACTTTAAATCTTCCCAAGATGTA
TGGTTATATCAATCAGTGAATAATCTATATTCTTTGGCATTTTTGTGACATATCAATTCAGTTCTAT
GTTCCAGCAGAGATCATTATCCCTGGGATCACATCCAAATTTCACTAAATGGAAGCAAACTGTGAA
TTTGGGATAAGATCCTTCTTGGTTAGTATTACTTGTCCCGAGCAATTCTATTCTCGTTAGACATT
GTGATTTCTTCGTTGGAGCTGTGAGCAGCAGCATTGGCCCTAATCCTGCCACCTTGGTTGAAATT
CTTACATTTTCGAAGGAACATTATAATATATGGATGGTCTGAAAAATTTTCTATAGCATTCACTGGA
GTTGTTGGCTTCTATTAGGTACATATATAACTGTTGAAGAAATTTTATCCTACTCCCAAAGTTGTA
GCTGGCACTCCACAGAGTCTTTTCTAAATTTGAATTCACATGCTTAACATCTGGTTTGAAA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG207999
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MEAAATPAAAGAAARREELDMDVMRPLINEQNFDTGTSDEEHEQELLPVQKHYQLDDQEGISFVQTLMHLL
KGNIGTGLLGLPLAIKNAGIVLGPISLVFIGIISVHMHILVRCSHFLCLRFKSTLGYSDTVSFAMEV
SPWSCLQQAAWGRSVVDFLVLITQLGFCSVYIVFLAENVKQVHEGFLESKVFISNSTNSSNPCERRSV
DLRIYMLCFLPFILLVFIKELKNLFLVSLANVSMASLVIIYQYVVRNMPDPHNLPIVAGWKKYPLF
FGTAVFAFEGIGVVLPLENQMKESKRFPQALNIGMGIVTTLVYVTLATLGYMCFHDEIKGSITLNLQDV
WLYQSVKILYSFGIFVYYSIQFYVPAEIIIPGITSKFHTKWKQICEFGIRSFLVITCAGAILIPRLDI
VISFVGAVSSSTLALILPPLVEILTFKEHYNIWMLKNISIAFTGVVGFLLGTYITVEEIIYPTPKVV
AGTPQSPFLNLNSTCLTSLK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

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: 6037 bp

RefSeq ORF: 1515 bp

Locus ID: 120103

UniProt ID: [Q6YBV0](#)

Cytogenetics: 11q21

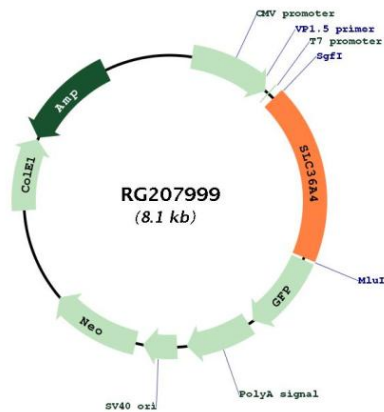
Domains: Aa_trans

Protein Families: Transmembrane

MW: 56.2 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 RG207999