

## Product datasheet for **RG237770**

### SLC36A4 (NM\_001286139) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC36A4 (NM_001286139) 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)
ORF Nucleotide Sequence:	>RG237770 representing NM_001286139. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAGTGAGTCCTTGGAGTTGTCTTCAGAAGCAAGCAGCATGGGGCCGGAGTGTGGTTGACTTTTTT
CTGGTGATAACACAGCTGGGATTCTGTAGTGTTTATATTGTCTTCTTAGCTGAAAATGTGAAACAAGTT
CATGAAGGATTCCTGGAGAGTAAAGTGTTTATTTCAAATAGTACCAATTCATCAAACCTTGTGAGAGA
AGAAGTGTGACCTAAGGATATATATGCTTTGCTTTCTCCATTATAATTCTTTGGTCTTCATTTCGT
GAACTAAAGAATCTATTTGTACTTTTCCTTCCACGTTTCCATGGCTGTCAGTCTTGTGATAATT
TACCAGTATGTTGTCAGGAACATGCCAGATCCCCACAACCTTCCAATAGTGGCTGGTTGGAAGAAATAC
CCACTCTTTTTGGTACTGCTGTATTTGCTTTGAAGGCATAGGAGTGGTCTTCCACTGAAAAACCAA
ATGAAAGAATCAAAGCGTTTCCCTCAAGCGTTGAATATTGGCATGGGGATTGTTACAACCTTGTATGTA
ACATTAGCTACTTTAGGATATATGTGTTCCATGATGAAATCAAAGGCAGCATAACTTTAAATCTTCCC
CAAGATGTATGGTTATATCAATCAGTGAATTTCTATATTCCTTTGGCATTGTTGACATATTCATT
CAGTTCATGTTCCAGCAGAGATCATTATCCCTGGGATCATATCCAAATTCATACTAAATGGAAGCAA
ATCTGTGAATTTGGGATAAGATCCTTCTTGTTAGTATTACTTGTGCCGGAGCAATTCCTATTCTCGT
TTAGACATTGTGATTTCCCTTGGAGCTGTGAGCAGCAGCACATTGGCCCTAATCCTGCCACCTTTG
GTTGAAATTCCTACATTTTGAAGGAACATTATAATATATGGATGGTCTGAAAAATTTCTATAGCA
TTCACTGGAGTTGTTGGCTTCTTATTAGGTACATATAACTGTTGAAGAAATTTATCTACTCTCC
AAAGTTGTAGCTGGCACTCCACAGAGTCTTTTCTAAATTTGAATTCAACATGCTTAACATCTGTTTG
AAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237770  
 Blue=ORF Red=Cloning site Green=Tag(s)

MEVSPWSCLQKQAAWGRSVVDFFLVITQLGFCSVYIVFLAENVKQVHEGFLESKVVISNSTNSSNPCER  
 RSVDLRIYMLCFLPFIILLVFIRELKNLFVLSFLANVSMASLVIIYQYVVRNMPDPHNLPIVAGWKKY  
 PLFFGTAVFAFEGIGVVLPLENQMKESKRFPQALNIGMGIVTTLVYTLATLGYMCFHDEIKGSITLNL  
 QDVWLYQSVKILYSFGIFVTYSIQFYVPAEIIIPGITSKFHTKWKQICEFGIRSLV SITCAGAILIPR  
 LDIVISFVGA VSSSTLALILPPLVEILTFSEHYNIWMVLKNISIAFTGVVGFLLGTYYITVEEIIYPTP  
 KVVAGTPQSPFLNLNSTCLTSLGLK  
 TRTRPLEMESDESLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001286139

**ORF Size:** 1107 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).

**RefSeq:** [NM\\_001286139.2](#)

**RefSeq Size:** 6061 bp

RefSeq ORF: 1110 bp

Locus ID: 120103

UniProt ID: [Q6YBV0](#)

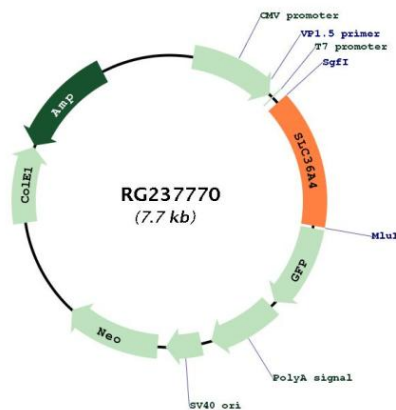
Cytogenetics: 11q21

Protein Families: Transmembrane

MW: 41.8 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 RG237770