

Product datasheet for **RC237770**

SLC36A4 (NM_001286139) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC36A4 (NM_001286139) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SLC36A4
Synonyms: PAT4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237770 representing NM_001286139
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAAGTGAAGTCTTGGAGTTGTCTTCAGAAGCAAGCAGCATGGGGCGGAGTGTGGTTGACTTTTTTC
TGGTGATAACACAGCTGGGATTCTGTAGTGTATATTGTCTTCTAGCTGAAAAATGTGAAACAAGTTCA
TGAAGGATTCCTGGAGAGTAAAGTGTATTTCAAATAGTACCAATTCATCAAACCTTGTGAGAGAAGA
AGTGTGACCTAAGGATATATGCTTTGCTTTCTCCATTTATAAATCTTTGGTCTTCATTCTGTGAAC
TAAAGAATCTATTTGACTTTTCATTCTTGCCAACGTTTCCATGGCTGTCAGTCTTGTGATAATTTACCA
GTATGTTGTCAGGAACATGCCAGATCCCCACAACCTTCCAATAGTGGCTGGTTGGAAGAAATACCCACTC
TTTTTTGGTACTGCTGTATTTGCTTTTGAAGGCATAGGAGTGGTCTTCCACTGGAAAACCAATGAAAG
AATCAAAGCGTTTCCCTCAAGCGTTGAATATTGGCATGGGGATTGTTACAACCTTGTATGTAACATTAGC
TACTTTAGGATATATGTGTTCCATGATGAAATCAAAGGCAGCATAACTTTAAATCTTCCCAAGATGTA
TGGTTATATCAATCAGTAAAAATCTATATTCCTTTGGCATTGTTGACATATCAATTCAGTTCTATG
TTCCAGCAGAGATCATTATCCCTGGGATCAGTCCAAATTCATACTAAATGGAAGCAAACTGTGAAT
TGGGATAAGATCCTTCTGGTTAGTATTACTTGTGCCGGAGCAATTCCTATTCTCGTTTAGACATTGTG
ATTTCTTCGTTGGAGCTGTGAGCAGCAGCATTGGCCCTAATCCTGCCACCTTTGGTTGAAATCTTA
CATTTTGAAGGAACATTATAATATATGGATGGTCTGAAAAATTTCTATAGCATTCACTGGAGTTGT
TGGCTTCTTATTAGGTACATATAAAGTGTGAAGAAATATTTATCCTACTCCCAAAGTTGTAGCTGGC
ACTCCACAGAGTCTTTTCTAAATTTGAATTCACATGCTTAACATCTGGTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237770 representing NM_001286139
 Red=Cloning site Green=Tags(s)

MEVSPWSCLQKQAAWGRSVVDFFLVITQLGFCSVYIVFLAENVKQVHEGFLESKVFI SNSTNSSNPCERR
 SVDLRIYMLCFLPFIIILLVFIRELKNLFVLSFLANVSMASLVIIYQYVVRNMPDPHNLPIVAGWKKYPL
 FFGTAVFAFEGIGVVLPLENQMKESKRFPQALNIGMGIVTTLVYTLATLGYMCFHDEIKGSITLNLPODV
 WLYQSVKILYSFGIFVTYSIQFYVPAEIIIPGITSKFHTKWKQICEFGIRSFVLSITCAGAILIPRLDIV
 ISFVGAVSSSTLALILPPLVEILTF SKEHYNIWMVLKNI SIAFTGVVGFLLGTYITVEEIIYPTPKVVAG
 TPQSPFLNLNSTCLTSLGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

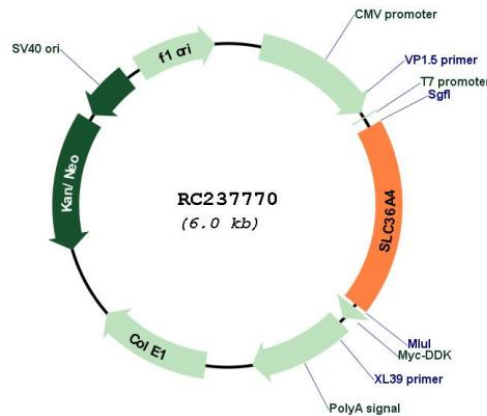
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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).
Reconstitution Method:	<ol style="list-style-type: none">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_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]