

Product datasheet for **SC335664**

SLC36A4 (NM_001286139) Human Untagged Clone

Product data:

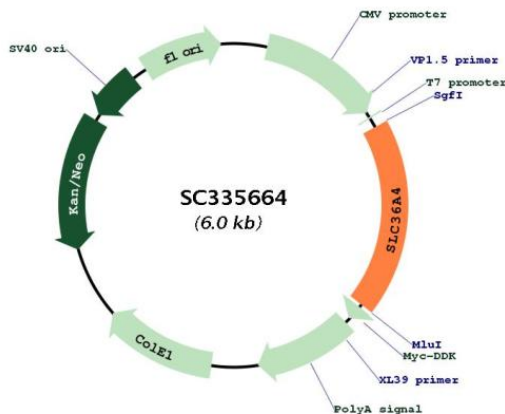
Product Type:	Expression Plasmids
Product Name:	SLC36A4 (NM_001286139) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC36A4
Synonyms:	PAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335664 representing NM_001286139. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAGTGAGTCCTTGGAGTTGTCTTCAGAAGCAAGCAGCATGGGGCGGAGTGTGGTTGACTTTTTT
CTGGTGATAACACAGCTGGGATTCTGTAGTGTTTATATTGTCTTCTTAGCTGAAAATGTGAAACAAGTT
CATGAAGGATTCCTGGAGAGTAAAGTGTTTATTTCAAATAGTACCAATTCATCAAACCCTTGTGAGAGA
AGAAGTGTGACCTAAGGATATATATGCTTTGCTTTCTCCATTATAATTCTTTGGTCTTCATTTCGT
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TACCAGTATGTTGTCAGGAACATGCCAGATCCCCACAACCTTCCAATAGTGGCTGGTGGAAAGAAATAC
CCACTCTTTTTGGTACTGCTGTATTTGCTTTGAAGGCATAGGAGTGGTCCCTTCCACTGAAAAACCAA
ATGAAAGAATCAAAGCGTTTCCCTCAAGCGTTGAATATTGGCATGGGGATTGTTACAACCTTGTATGTA
ACATTAGCTACTTTAGGATATATGTGTTCCATGATGAAATCAAAGGCAGCATAACTTTAAATCTTCCC
CAAGATGTATGGTTATATCAATCAGTGAATAATCTATATTCCTTTGGCATTGTTGACATATTCATT
CAGTTCATGTTCCAGCAGAGATCATTATCCCTGGGATCATATCCAAATTCATACTAAATGGAAGCAA
ATCTGTGAATTTGGGATAAGATCCTTCTTGTTAGTATTACTTGTGCCGGAGCAATTCATTCTCGT
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TTCACTGGAGTTGTTGGCTTCTTATTAGGTACATATATAACTGTTGAAGAAATTTATCTACTCCC
AAAGTTGTAGCTGGCACTCCACAGAGTCTTTTCTAAATTTGAATTCAACATGCTTAACATCTGTTTG
AAATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001286139

Insert Size: 1110 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001286139.1](#)

RefSeq Size: 6061 bp

RefSeq ORF: 1110 bp

Locus ID: 120103

UniProt ID: [Q6YBV0](#)

Cytogenetics: 11q21

Protein Families: Transmembrane

MW: 41.4 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]

Transcript Variant: This variant (2) differs in the 5' UTR, contains multiple differences in the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.