

Product datasheet for **SC100884**

SLC36A4 (NM_152313) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC36A4 (NM_152313) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC36A4
Synonyms:	PAT4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC100884 sequence for NM_152313 edited (data generated by NextGen Sequencing)

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ATGGAAGCGGGCGACGCCGGCGCTGCCGGGGCGGCGAGGCGCGAGGAGCTAGATATG
GATGTAATGAGGCCCTTGATAAATGAGCAGAATTTTGGTGGACATCAGATGAAGAACAT
GAGCAAGAGCTTCTGCCTGTTTCAAGCATTACCAACTTGATGATCAAGAGGGCATTTC
TTTGTACAACTCTTATGCACCTTCTTAAAGGAAATATTGGAAGTGGCCTTTTAGGACTT
CCATTGGCAATAAAAAATGCAGGCATAGTGCTTGGACCAATCAGCCTTGTGTTTATAGGA
ATTATTTCTGTTCACTGTATGCACATATTGGTACGTTGCAGTCACTTTCTATGCTGAGG
TTTAAAAAGTCAACATTAGGTTATAGTGACACTGTGAGCTTTGCTATGGAAGTGAGTCTT
TGGAGTTGTCTTCAAGCAAGCAGCATGGGGCGGAGTGTGGTTGACTTTTTCTGGTG
ATAACACAGCTGGGATTCTGTAGTGTATATTGTCTTCTTAGCTGAAAAATGTGAAACAA
GTTTCATGAAGGATTCTGGAGAGTAAAGTGTATTTTCAATAGTACCAATTCATCAAAC
CCTTGTGAGAGAAGAAGTGTGACCTAAGGATATATATGCTTTGCTTTCTCCATTTATA
ATTCTTTTGGTCTTCATTCGTGAACTAAAGAATCTATTTGACTTTCATTCCTTGCCAAC
GTTTCCATGGCTGTCAGTCTTGATAATTTACCAGTATGTTGTCAGGAACATGCCAGAT
CCCCACAACCTTCCAATAGTGGCTGGTTGGAAGAAATACCCACTCTTTTTTGGTACTGCT
GTATTTGCTTTTGAAGGCATAGGAGTGGTCTTCCACTGGAAAACCAAATGAAAGAAATCA
AAGCGTTTCCCTCAAGCGTTGAATATTGGCATGGGGATTGTACAACCTTTGTATGTAACA
TTAGCTACTTTAGGATATATGTGTTTCCATGATGAAATCAAAGGCAGCATAAATTTAAAT
CTTCCCAAGATGATAGTTATATCAATCAGTGAATTTCTATATTCCTTTGGCATTTTT
GTGACATATTCATTCAGTCTATGTCCAGCAGAGATCATTATCCCTGGGATCAGATCC
AAATTTCACTAAATGGAAGCAAATCTGTGAATTTGGGATAAGATCCTTCTTGGTTAGT
ATTACTTGTGCCGAGCAATCTTATTCTCGTTTAGACATTGTGATTTCTTCTCGTTGGA
GCTGTGAGCAGCAGCACATTGGCCCTAATCCTGCCACCTTTGGTTGAAATTCCTACATTT
TCGAAGGAACATTATAATATATGGATGGTCTGAAAAATATTTCTATAGCATTACTGGA
GTTGTTGGCTTCTTATTAGGTACATATAAATGTTGAAGAAATATTTATCCTACTCCC
AAAGTTGTAGCTGGCACTCCACAGATCCTTTTCTAAATTTGAATTCACATGCTTAAACA
TCTGGTTTGAATAG
    
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Clone variation with respect to NM_152313.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_152313 unedited
TCCCCCGCCCGTTGCCGCAATGGGCGGTAGGCGGTGACGGTGGGAGGTCTATATAAGCA
GAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGA
ATTCGGCACGAGGGCGGGCGGACGCCGGCGGCTGCCGGGGCGGCGAGGCGCGAGGAGCT
AGATATGGATGTAATGAGGCCCTTGATAAATGAGCAGAATTTTGGTGGACATCAGATGA
AGAACATGAGCAAGAGCTTCTGCCTGTTTCAAGCATTACCAACTTGATGATCAAGAGGG
CATTTTCATTTGTACAACTCTTATGCACCTTCTTAAAGGAAATATTGGAAGTGGCCTTTT
AGGACTTCCATTGGCAATAAAAAATGCAGGCATAGTGCTTGGACCAATCAGCCTTGTGTT
TATAGGAATATTTCTGTTCACTGTATGCACATATTGGTTAAAAAGTCAACATTAGGTT
ATAGTGACACTGTGAGCTTTGCTATGGAAGTGAGTCTTGGAGTTGTCTTCAAGCAAG
CAGCATGGGGCGGAGTGTGGTTGACTTTTTTCTGGTGATAACACAGCTGGGATTCTGTA
GTGTTTATATTGCTTCTTAGCTGAAAAATGTGAAACAATGTTNTACATTTTGGTAAACAT
GTGAGATCGTANGAAGTCTATTAGATAGCCAATCTCTGTCTCTAGAGGGCACCAAAGGA
CTCAAATGTTTACCTGAATCTTGTCTTAGGNTCATGAANGGATCCTGGAGAGTAAAGTNG
TTATTTCAAATAGTACCAATCATCAAACCTTGTGAGAGAAGAAAGTGTGACCTAAGGA
TTATATGCCTTGCTTTCTCCATTATAATTCTTTTGGGCTTCATTCGNGACTAAGAACT
ATTTGCCTTTCATTCTTGCCACGTTCCATGGCTNCAGNCTGGGATTAACAGATGTGGC
AGA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_152313 unedited NCGAATACTATGTACGCGGCCGCATTCTANNGTCGAGTTTTTTTTTTTTTTTTTATGTT TTATAGAGTCGAGGTCTCACTATGCTGCCAGGCTGGTCTCAAGCTCCTGGCCTCTCAAG TGATCCTCCCACTTATCCTCCAGAGTAGCTGGGATTATAAGCACAGACCACCACACCTA GCTGATTCTTTTATTCTGCTCATAATAAATAAAAGGCTGTGATAAGAAAAGCCACAGGGC TGGAAAAGAGTCCACAAATCCTCCGTTTTCTGAGGTGTCTATTATCTGCCATTCAAGGAATG TGGTGCCTACAAAACCTCAGGAAAGGAAGTAATAATTAATAAAGCTCAAGCCACAAATAG TATAGCTAGACACACATCTTACTAGCCAGGAGTTTCACCAGCAAGCGGTCTCTATTCTGT TTTAAAAGAACATAGCTTCTTTCTTGCTGAGGTTTATATGGCCACAGTGAAGCTTCT TGGAGTCCCTGATTTTCTGCTCAGGTCACATATACTATTAATAAATCACACATTCATTTT CAAAGTATTAATAATAATCAAATAGATTCAACACTAAAATTAAGCTGAACATAATTTAT TCTTTTTCTTGGACATGATGTGAGAAATAAACATCCTGGCCTGGGAGTCAGAAGATTAA GTTTTCTTGATCTCAAAGCTGAGTGGTCTCGACCAAGTTACCTAACCTTTCTAGGCCTCC TTTTCTCTGACAAAAAAAAGGGAAGTGCCTGGGATAAGTTTAAAGACCCTTTTTTAA TTTTCATTGGAACCCTAAGTCATGATCTTGAACAGGGCTCTTTGGCTTTGAAGATAAA CTACCACTCAAGTGGGAAAATTAATTCTAGTGGGTGGCAATATTCTGGAGGCTCATATT AATGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_152313
Insert Size:	3000 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:	<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_152313.1 , NP_689526.1
RefSeq Size:	1916 bp
RefSeq ORF:	1110 bp
Locus ID:	120103
UniProt ID:	Q6YBV0
Cytogenetics:	11q21
Domains:	Aa_trans
Protein Families:	Transmembrane

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 (1) represents the shorter transcript and encodes the longer 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.