

Product datasheet for **SC127289**

SLC36A1 (NM_078483) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC36A1 (NM_078483) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC36A1
Synonyms:	Dct1; LYAAT1; PAT1; TRAMD3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC127289 sequence for NM_078483 edited (data generated by NextGen Sequencing)

```

ATGTCCACGCAGAGACTTCGGAATGAAGACTACCACGACTACAGCTCCACGGACGTGAGC
CCTGAGGAGAGCCCGTCGGAAGGCCCTCAACAACCTCTCTCCCGGGCTCCTACCAGCGC
TTTGGTCAAAGCAATAGCACAAACATGGTTCCAGACCTTGATCCACCTGTTAAAAGGCAAC
ATTGGCACAGGACTCCTGGGACTCCCTCTGGCGGTGAAAAATGCAGGCATCGTGTGGT
CCCATCAGCCTGCTGATCATAGGCATCGTGGCCGTGCACCTGCATGGGTATCCTGGTGAAA
TGTGCTCACCCTTCTGCCGAGGCTGAATAAATCCTTTGTGGATTATGGTGATACTGTG
ATGTATGGACTAGAATCCAGCCCCTGCTCCTGGCTCCGGAACCACGCACACTGGGGAAGA
CGTGTGTGGACTTCTTCTGATTGTCACCCAGCTGGGATTCTGCTGTGTCTATTTTGTG
TTTCTGGCTGACAACCTTAAACAGGTGATAGAAGCGCCAATGGGACCACCAATAACTGC
CACAAATGAGACGGTATTCTGACGCCTACCATGGACTCGCGACTCTACATGCTCTCC
TTCCTGCCCTTCTGGTGTCTGGTTTTTCATCAGGAACCTCCGAGCCCTGTCCATCTTC
TCCCTGTTGGCCAACATACCATGCTGGTCAGCTTGGTCATGATCTACCAGTTCATTGTT
CAGAGGATCCCAGACCCAGCCACTCCCCTTGGTGGCCCTTGAAGACCTACCCTCTC
TCTTTTGGCACAGCGATTTTTTCATTTGAAGGCATTGGAATGGTCTGCCCTGGAAAAC
AAAATGAAGGATCCTCGGAAGTTCCCACTCATCCTGTACCTGGGCATGGTCATCGTCACC
ATCCTCTACATCAGCCTGGGGTGTCTGGGGTACCTGCAATTTGGAGCTAATATCCAAGGC
AGCATAACCTCAACCTGCCCAACTGCTGGTGTACCAGTCAGTTAAGCTGCTGTACTCC
ATCGGGATCTTTTTACCTACGCACTCCAGTCTACGTCCCGGCTGAGATCATATCCCC
TTCTTTGTGTCCCGAGCGCCGAGCACTGTGAGTTAGTGGTGGACCTGTTTGTGCCGACA
GTGCTGGTCTGCCTGACATGCATCTTGGCCATCCTCATCCCCGCTGGACCTGGTCATC
TCCCTGGTGGGCTCCGTGAGCAGCAGCCCTGGCCCTCATCATCCACCCTCCTGGAG
GTACCACCTTCTACTCAGAGGGCATGAGCCCCCTACCATCTTTAAGGACGCCCTGATC
AGCATCCTGGGCTTCGTGGGCTTTGTGGTGGGGACCTATGAGGCTCTCTATGAGCTGATC
CAGCCAAGCAATGCTCCCATCTTCATCAATTCCACCTGTGCCTTCATATAG
    
```

Clone variation with respect to NM_078483.2

5' Read Nucleotide Sequence:

```

>OriGene 5' read for NM_078483 unedited
TACCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAG
AGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAA
TTCGGCACGAGGAGGATGGCGAGGGGCTGATACTGAACCCGGGAAGGGTGGGCTGTGCTG
AAGCCAGAGCCGGAGCCGGAGCTGGGGCCAGAACCCGAGCAGTGAGTTCTCCACTGACG
AGTTCGGCTGGCGGCGCTCGCCGCCTTGGGCAGGACCCACTCGCCTTCTCCCGGCGT
GGCAGATGCTCCAGCTGCCATGTCCACGCAGAGACTTCGGAATGAAGACTACCACGACTA
CAGCTCCACGGACGTGAGCCCTGAGGAGAGCCCGTCGGAAGGCCCTCAACAACCTCTCCTC
CCGGGCTCCTACCAGCGCTTTGGTCAAAGCAATAGCACAAACATGGTTCCAGACCTTGAT
CCACCTGTAAAAGGCAACATTGGCACAGGACTCCTGGGACTCCCTCTGGCGGTGAAAAA
TGCAGGCATCGTGATGGGTCCCATCAGCCTGCTGATCATAGGCATCGTGGCCGTGCACCTG
CATGGGTATCCTGGTGAATGTGCTCACCATTCTGCCGAGGCTGAATAAATCCTTTGT
GGATTATGGTGATACTGTGATGTATGGACTAGAATCCAGCCCCTGCNTCTGGGCTCGAAC
CACGCCACTGGGAAAGACGTGTGNGGACTTNTCCTGATGTCACCCACTGGGATCTGCTG
GCCTATTTGNGNTCCTGCTGACACTTTTACAGTGATGAAGCGCCATGGGACACCATACTG
CACACATGAGACGTGATCTGACCCTACATGGATNGCGACTTAATGCTCTTCTGCCTTC
TGGGCTGGGG
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_078483 unedited AAAAAACCTCCTGCGCCATGTGCTCTCGTTCCGGTANGAGCACTGGGCCGGGTACACAG GGATGCCACCCGGTCTGTTCAGGAAACAGCTTGACCGCGCCCAATCTAGAGTCGAG TTCCAA AAATAAAATAAATTTTCATTTTTGGAAAAGAAAAGCTTTTTTTTCGATCCATGGGCAAA CCCCCAACAGGGTCTACGAACTCTGGCGTGATCCACATGGCTCCCCATCCCATGCTGGG AGGGCCCTCCCCCGGGCCGTAACATACCCAGTTCTGTTTAGTTTTCAACCCCTACAG ATTGGTTGATTTTTCTTACCCCCATTGACATGTTTACAATAGAGTTCCCAATTTTTT TATCCACTGAAAGAGCATAGCTTCCCCAGAATCACTTTGTTTTAAACCAATAACACAG GGAATGACAGGCCCTGCACCTATATCTGCTACCTTCCTTACTCTGATAACCTCCCACC AGCACCATTTATGCTCTGCGCCAGGGAACGACTCAGTGGCACAAGGAAAGAGGATGAA TGTTACAGGCTGATGCTTTGCGGGCAAATAGCCCTGCAACCAGCCGGGCTTACTGTTAA AAATTTAAACCGTAATTTCAAAGAACAACCACCCCTTCTTTTCCCCTAATGGCTCA AAGATTTGTAAGGGCCTTTGAAAATTAACCTTCTAGGGGGGGGAAGCCACCCTCAGT CCTGCCCTTGGGCTTGGGTCTCCCTTCCGGGAAACACCTTGTCCCCCGCGGGGGG GGTGCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_078483
Insert Size:	6200 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:	<u>NM_078483.2</u> , <u>NP_510968.2</u>
RefSeq Size:	5821 bp
RefSeq ORF:	1431 bp
Locus ID:	206358
UniProt ID:	<u>Q7Z2H8</u>
Cytogenetics:	5q33.1
Domains:	Aa_trans
Protein Families:	Transmembrane

Gene Summary:

This gene encodes a member of the eukaryote-specific amino acid/auxin permease (AAP) 1 transporter family. The encoded protein functions as a proton-dependent, small amino acid transporter. This gene is clustered with related family members on chromosome 5q33.1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]
Transcript Variant: This variant (1) encodes the longest isoform (a).