

Product datasheet for **SC126791**

SLC44A4 (NM_025257) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC44A4 (NM_025257) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC44A4
Synonyms:	C6orf29; CTL4; DFNA72; hTPPT1; NG22; TPPT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126791 sequence for NM_025257 edited (data generated by NextGen Sequencing)

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ATGGGGGAAAGCAGCTGGACGAGGATGACGAGGCCTACGGGAAGCCAGTCAAATACGAC
CCCTCCTTTTCGAGGCCCATCAAGAACAGAAGCTGCACAGATGTCATCTGCTGCTCCTC
TTCCTGCTCTTCTAGTTACATCGTGGTGGGATTGTGGCTGGTTGTATGGAGAC
CCCCGGCAAGTCTCTACCCAGAACTCTACTGGGCCTACTGTGGCATGGGGGAGAAC
AAAGTAAGCCGTATCTCCTGTACTTCAACATCTTCAGCTGCATCCTGTCCAGCAACATC
ATCTCAGTTGCTGAGAACGGCCTACAGTGCCCCACACCCAGGTGTGTGTCTCCTCCTGC
CCGGAGGACCCATGGACTGTGGGAAAAACGAGTTCTCACAGACTGTTGGGGAAGTCTTC
TATACAAAAACAGGAACTTTTGTCTGCCAGGGTACCCTGGAATATGACGGTGATCACA
AGCCTGCAACAGGAACTCTGCCAGTTTCTCCTCCCCCTGCTCCAGCTCTGGGGCGC
TGCTTTCCATGGACCAACGTTACTCCACCGCGCTCCAGGGATACCAATGACACCACC
ATACAGCAGGGGATCAGCGGTCTTATTGACAGCCTCAATGCCGAGACATCAGTGTAAAG
ATCTTTGAAGATTTGCCAGTCTGGTATTGGATTCTTGTGCCCTGGGGTGGCTCTG
GTCTTGAGCCTACTGTTTATCTTCTGCTTCTGCGCCTGGTGGCTGGGCCCTGGTGTGGT
CTGATCCTGGGAGTGCTGGGCGTCTGGCATAACGCATCTACTACTGCTGGGAGGAGTAC
CGAGTGCTGCGGGACAAGGGCGCCTCCATCTCCAGCTGGGTTTACCACCAACCTCAGT
GCCTACCAGAGCGTGCAGGAGACCTGGCTGGCCGCCCTGATCGTGTGGCGGTGCTTAA
GCCATCCTGCTGCTGATGCTCATCTTCTGCGGACGGGATTTCGATTGCCATCGCCCTC
CTGAAGGAGGCCAGCAAGGCTGTGGGACAGATGATGTCTACCATGTTCTACCCACTGGTC
ACCTTTGCTCCTCCTCATCTGCATTGCCACTGGGCCATGACTGCTCTGTACCTGGCT
ACATCGGGGCAACCCAGTATGTGCTCTGGGCATCCAACATCAGCTCCTCCGGCTGTGAG
AAGTGCAATAAATACATCATGCAACCCACGGCCACCTTGTGAACTCCTCGTGCCCA
GGGCTGATGTGCGTCTTCCAGGGCTACTCATCAAAGGCCAATCAACGTTCTGTCTTC
AATCTGCAAAATCTATGGGGTCTGGGGCTTCTGACCCTTAACTGGGTACTGGCCCTG
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GACATCCCTACCTTCCCCTTAATCTCTGCCTTCCCGCACACTCCGTTACCACACTGGG
TCATTGGCATTGGAGCCCTCATCTGACCCTTGTGCAGATAGCCCGGTGATCTGGAG
TATATTGACCACAAGCTCAGAGGAGTGCAGAACCCTGTAGCCCGTGCATCATGTGCTGT
TTCAAGTGTGCTCTGGTGTCTGGAAAAATTTATCAAGTTCTAAACCGCAATGCATAC
ATCATGATCGCCATCTACGGGAAGAATTTCTGTGTCTCAGCCAAAATGCGTTCATGCTA
TCATGCGAAACATTGTCAGGGTGGTCTGCTGGACAAAGTACAGACCTGCTGCTGTTT
TTGGGAAGTGTGGTGGTGGAGGCGTGGGGTCTGTCTTCTTTTTTTCTCCGGT
CGCATCCCGGGGCTGGGTAAAGACTTTAAGAGCCCCACCTCAACTATTACTGGCTGCC
ATCATGACCTCCATCCTGGGGCCTATGTCATCGCCAGCGGCTTCTCAGCGTTTTCCGC
ATGTGTGTGGACACGCTTCTCCTGCTTCTGGAAGACCTGGAGCGGAACAACGGCTCC
CTGGACCGGCCCTACTACATGTCCAAGAGCCTTCTAAAGATTCTGGGCAAGAAGAACGAG
GCGCCCCGGACAACAAGAAGAGGAAGAAGTGA

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Clone variation with respect to NM_025257.2
 17 g=>t;1189 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_025257 unedited
 TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCCATGGGGNGAAAG
 CAGCTGGACGAGGATGACGAGGCCTACGGGAAGCCAGTCAAATACGACCCCTCCTTTG
 GGCCCCATCAAGAACAGAAGCTGCACAGATGTCATCTGCTGCGTCCTCTTCTGCTTTC
 ATTCTAGTACATCGTGGTGGGATTGTGGCCTGGTTGTATGGAGACCCCCGCAAGTC
 CTCTACCCAGGAACCTTACTGGGCCTTACTGGGCAGGGGGGAAAAACAAAAAAATTTT
 CCGTTTTTCCGGGGTTTTCAAATTTTTAAGGGGGGGCCGGGGCCAAAAAAATTTTT
 TTTTTTTTTAGTAAAAAGAGGTTTTATGCCCCCCCCCCAGGTGGGGGGTGT
 TTCTTTCCCGGGGAGAAAAATTTTTGTGTGTTAAAAAACAACCCCCCCCC
 CGCGGGGGGGGGGGTTTTTATAAAAAAATTTTTTTTTTTTTTTTTCGCGCG
 GCCCGCCCTTAATTTAAATAAAAAAACCCTCCCGAAGCCGGGNNNTTGGTT
 TTTCTCCCTCCCCCCCCCTTTTGGTGGGGGGGGGGGGTGTAAAAAACA
 AACACCCCCCCCCCGCGGGGCGGGNGGGTGCACCCCCCACCCTCGGGG
 GGGGGGGTGTTTTTTTTTCTTTCCCTCCCCCCCCNCCNCCAAAAACAGC
 ATAATATTTTTTTTTNCTTCTCTCCCTCCTCCCTCTCGGCGGGCTCCTGGGGCG
 GGGGGGGGGGGATCTTGAATTACCATCTTCTCCGGTTTCTCCGCGGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_025257 unedited
 TGGACCGCGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGTAAACAAA
 TATCTTTAATAAAATCTTTTGTGTTGTTTGTGTTTGGAGACAGAGTCTGTCACCCA
 GGTGGAGTGCAGTGGCGGATCTGGCTCACTGCAACCTCTGCCTCCCGGTTCAAGCG
 ATTCTCCTGCCTCAGCTCCCGAGTAGTGGGATGACAGGTGCATGCCACCATTCGGC
 TAATTTTTGTATTTTAATAGAGACGGAGTTTACCATGTTGGCCAGGCTGGTCTCGAA
 CTCCTGACTCAGGTGATCCGCCGCTCAGCCTCTCAAAGTGTGGATTACAGGCGTGAG
 CCACGGCGCTGGCTAAAACCTTTTTTACCACAAAATGGAGACCTGTAAGGCGAAGTG
 AGGTGGATGGCTGGACGGTGGGGTGGGTGCAGTCTGGATCAGGGCCGGAGCTGTCA
 CTTCTTCTTCTTGTGTCCGGGGCGCCTCGTTCTTCTTGGCCAGAACTTTAGAA
 GCTCTTGGACATGTAGTAGGGCCGGTCCAGGGAGCCGTTGTTCCGCTCCAAGTCTCCAG
 GAAGCAGAGGAAGAGCGTGTCCACACACATGCCAAAACCCTGAAGAAGCCGCTGGCGAT
 GACATATGCCCCAGGATGGATGTCATGATGGCACCCAGTAATAGTTGAGGTGGGGCT
 CTTAAATCTTCCCCACCCCGGATGCCACCGAGAAAAAAGAAGACAGGACCCCCC
 CCTCCAACCACAACAGTTTCCCAAAGACAGCAGTCTTGGACTTTGCCAGACGACC
 CCCCAGCATGTCCCCTGATTAGCTGACCCCTTTTGGCCTACCCAAAAATCTCCCCG
 AAATGGCACCTGAGCCTCCCTGCGGCCAGAACTGATAAATTTTCAACCTAAGCCACCTG

Restriction Sites:

NotI-NotI

ACCN:

NM_025257

Insert Size:

2620 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_025257.1](#), [NP_079533.1](#)

RefSeq Size: 2347 bp

RefSeq ORF: 2139 bp

Locus ID: 80736

UniProt ID: [Q53GD3](#)

Cytogenetics: 6p21.33

Domains: DUF580

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene may be a sodium-dependent transmembrane transport protein involved in the uptake of choline by cholinergic neurons. Defects in this gene can cause sialidosis, a lysosomal storage disease. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2010]
Transcript Variant: This variant (1) encodes the longest isoform (1).