

Product datasheet for **RC230373**

SLC44A4 (NM_001178045) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC44A4 (NM_001178045) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC44A4
Synonyms:	C6orf29; CTL4; DFNA72; hTPPT1; NG22; TPPT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC230373 representing NM_001178045
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGAGAACAAGATAAGCCGTATCTCCTGTACTTCAACATCTTCAGCTGCATCCTGTCCAGCAACA
TCATCTCAGTTGCTGAGAACGGCCTACAGTGCCCCACACCCAGGTGTGTGTGCTCCTGCCCGGAGGA
CCCATGGACTGTGGGAAAAACGAGTTCTCACAGACTGTTGGGGAAGTCTTCTATACAAAAACAGGAAC
TTTTGTCTGCCAGGGTACCCTGGAATATGACGGTGATACAAGCCTGCAACAGGAACTCTGCCCGAGTT
TCCTCCTCCCCTCTGCTCCAGCTCTGGGGCGCTGCTTTCATGGACCAACGTTACTCCACCGGCGCTCCC
AGGGATACCAATGACACCACCATACAGCAGGGGATCAGCGGTCTTATTGACAGCCTCAATGCCCGAGAC
ATCAGTGTAAAGATCTTTGAAGATTTGCCAGTCTGGTATTGGATTCTTGTGCCCTGGGGTGGCTC
TGGTCTTGAGCCTACTGTTATCTTGTCTGCGCCTGGTGGCTGGGCCCTGGTCTGGTCTGATCCT
GGGAGTGTGGGCGTGTGGCATACGGCATCTACTACTGCTGGGAGGAGTACCGAGTGTGCGGGACAAG
GGCGCCTCCATCTCCAGCTGGGTTTACCACCAACCTCAGTGCCTACCAGAGCGTGCAGGAGACCTGGC
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GATTTCGATTGCCATCGCCCTCCTGAAGGAGGCCAGCAAGGCTGTGGGACAGATGATGTCTACCATGTTT
TACCCACTGGTACCTTTGTCCTCCTCCTCATCTGCATTGCTACTGGGCCATGACTGCTCTGTACTCTGG
CTACATCGGGGCAACCCAGTATGTGCTCTGGGCATCCAACATCAGTCCCCCGGCTGTGAGAAAGTGCC
AATAAATACATCATGCAACCCACGGCCACCTTGTGAACTCCTCGTGCCAGGGCTGATGTGCGTCTTC
CAGGGCTACTCATCAAAGGCCTAATCCAACGTTCTGTCTTCAATCTGCAAATCTATGGGTCTGGGGC
TCTTCTGGACCTTAACTGGGTACTGGCCCTGGGCAATGCGTCTCGTGGAGCCTTTGCCTCCTTCTA
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GTCCTTCTTTTTTCTCCGGTTCGATCCCGGGCTGGGTAAAGACTTTAAGAGCCCCACCTCAACTAT
TACTGGCTGCCCATCATGACCTCATCCTGGGGCCTATGTCATCGCCAGCGGCTTCTTACGCTTTTTCG
GCATGTGTGGACACGCTCTTCTCTGCTTCTGGAAGACCTGGAGCGGAACAACGGCTCCCTGGACCG
GCCTACTACATGTCCAAGGCCTTCTAAAGATTCTGGGCAAGAAGAACGAGGCGCCCCGGACAACAAG
AAGAGGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230373 representing NM_001178045
 Red=Cloning site Green=Tags(s)

MGENKDKPYLLYFNIFSCILSSNIISVAENGLQCPTPQVCVSSCPEDPWTVGKNEFSQTVGEVFYTKNRN
 FCLPGVPWNMTVITSLQQELCPFLLPSAPALGRCFPWTNVTTPALPGITNDTTIQGGISGLIDSLNARD
 ISVKIFEDFAQSWYILVALGVALVLSLLFILLRLVAGPLVLVLILGVLGVLAYGIYYCWEEYRVLDRK
 GASISQLGFTTNLSAYQSVQETWLAALIVLAVLEAILLMLIFLRQRIRIAIALLEKASKAVGQMMSTMF
 YPLVTFVLLLLICIAYWAMTALYLATSGQPQYVLWASNISSPGCEKVPINTSCNPTAHLVNSSCPGLMCVF
 QGYSSKGLIQRSVFNLIYGVGLGFWTLNWWLALGQCVLAGAFASFYWAFHKPQDIPTPLISAFIRTLR
 YHTGSLAFGALILTLVQIARVILEYIDHKLGRVQNPVARCIMCCFKCCLWCLEKFIKFLNRNAYIMIAIY
 GKNFCVSAKNAFLLMRNIVRVVLDKVDLLFFGKLLVVGGVGLSFFFFSGRIPGLGKDFKSPHLNY
 YWLPIMTSILGAYVIASGFFSVFGMCDVTLFLCFLEDLERNNGSLDRPYYSKSLKILGKKNAPPDNK
 KRKK

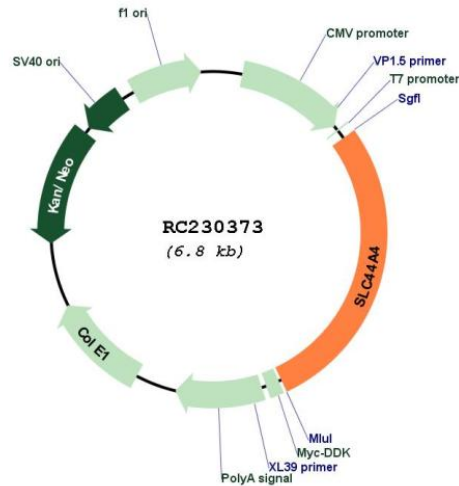
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001178045

ORF Size: 1902 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:

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_001178045.1](#), [NP_001171516.1](#)

RefSeq Size: 2646 bp

RefSeq ORF: 1905 bp

Locus ID: 80736

UniProt ID: [Q53GD3](#)

Cytogenetics: 6p21.33

Protein Families: Transmembrane

MW: 70.8 kDa

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]