

Product datasheet for **RG230373**

SLC44A4 (NM_001178045) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC44A4 (NM_001178045) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC44A4
Synonyms:	C6orf29; CTL4; DFNA72; hTPPT1; NG22; TPPT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230373 representing NM_001178045
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGAGAACAAGATAAGCCGTATCTCTGTACTTCAACATCTTCAGCTGCATCCTGTCCAGCAACA
 TCATCTCAGTTGCTGAGAACGGCTACAGTGCCCCACACCCAGGTGTGTGTCTCTGCCCGGAGGA
 CCCATGGACTGTGGGAAAAACGAGTTCTCACAGACTGTTGGGGAAGTCTTATACAAAAACAGGAAC
 TTTTGTCTGCCAGGGTACCCTGGAATATGACGGTGATACAAGCCTGCAACAGGAACTCTGCCAGTT
 TCCTCTCCCCTCTGCTCCAGCTCTGGGCGCTGCTTTCATGGACCAACGTTACTCCACCGGCGTCCC
 AGGGATACCAATGACACCACCATACAGCAGGGGATCAGCGGTCTTATTGACAGCCTCAATGCCGAGAC
 ATCAGTGTAAAGATCTTTGAAGATTTGCCAGTCTGGTATTGGATTCTTGTGCCCTGGGGTGGCTC
 TGGTCTTGAGCCTACTGTTTATCTTGTCTGCGCCTGGTGGCTGGGCCCTGGTCTGGTCTGATCCT
 GGGAGTCTGGGCGTCTGGCATACGGCATCTACTACTGCTGGGAGGAGTACCGAGTCTGCGGGACAAG
 GCGCCTCCATCTCCAGCTGGGTTTACCACCAACCTCAGTGCCTACCAGAGCGTGCAGGAGACCTGGC
 TGGCCGCCCTGATCGTGTGGCGGTGCTTGAAGCCATCCTGCTGCTGATGCTCATCTTCTGCGGACGG
 GATTTCGATTGCCATCGCCCTCCTGAAGGAGGCCAGCAAGGCTGTGGACAGATGATGTCTACCATGTT
 TACCCACTGGTACCTTTGCTCCTCCTCATCTGCATTGCTACTGGCCATGACTGCTCTGTACTCTGG
 CTACATCGGGGCAACCCAGTATGTGCTCTGGGCATCCAACATCAGTCCCCCGGCTGTGAGAAAGTGCC
 AATAAAATACATCATGCAACCCACGGCCACCTTGTGAACTCCTCGTCCCAGGGCTGATGTGCGTCTTC
 CAGGGCTACTCATCAAAGGCCAATCCAACGTTCTGTCTTCAATCTGCAAACTATGGGGTCTGGGGC
 TCTTCTGGACCTTAACTGGGACTGGCCCTGGGCAATGCGTCCCTCGCTGGAGCCTTGGCTCCTTA
 CTGGGCCTTCCACAAGCCCCAGGACATCCCTACCTTCCCCTTAACTCTGCTTCAATCCGCACACTCCGT
 TACCACACTGGGTCATTGGCATTGGAGCCCTCATCCTGACCCTTGTGCAGATAGCCCGGTCATCTTGG
 AGTATATTGACCACAAGCTCAGAGGAGTGCAGAACCTGTAGCCCGCTGCATCATGTGCTGTTTCAAGTG
 CTGCCTCTGGTGTCTGGAAAAATTTATCAAGTTCCTAAACCGCAATGCATACATCATGATCGCCATCTAC
 GGAAGAATTTCTGTGCTCAGCCAAAAATGCGTTCATGCTACTCATGCGAAACATTGTCAGGGTGGTGC
 TCCTGGACAAAGTCACAGACCTGCTGCTTCTTGGGAAGCTGCTGGTGGTGGGAGGCGTGGGGTCT
 GTCCTTCTTTTTTCTCCGGTGCATCCCGGGCTGGGTAAGACTTTAAGAGCCCCACCTCAACTAT
 TACTGGCTGCCCATCATGACCTCATCTGGGGCCTATGTCATGCCAGCGGCTTCTTACGCTTTTCG
 GCATGTGTGGACACGCTCTTCTCTGCTTCTGGAAGACCTGGAGCGGAACAACGGCTCCCTGGACCG
 GCCTACTACATGTCCAAGACCTTCTAAAGATTCTGGGCAAGAAGAACGAGGCGCCCCGGACAACAAG
 AAGAGGAAGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230373 representing NM_001178045
 Red=Cloning site Green=Tags(s)

MGENKDKPYLLYFNIFSCILSSNIISVAENGLQCPTPQVCVSSCPEDPWTVGKNEFSQTVGEVFTYKNRN
 FCLPGVPWNMTVITSLQQELCPSFLLPSAPALGRFCFPWTNVTTPALPGITNDTTIQQGISGLIDSLNARD
 ISVKIFEDFAQSWYWILVALGVALVLSLLFILLRLVAGPLVLLVILGVLGVLAYGIYYCWEEYRVLDRK
 GASISQLGFTTNLSAYQSVQETWLAALIVLAVLEAILLMLIFLRQRIRIAIALLEASKAVGQMMSTMF
 YPLVTFVLLLICIAYWAMTALYLATSGQPQYVLWASNISSPGCEKVPINTSCNPTAHLVNSSCPGLMCFV
 QGYSSKGLIQRVFNLIYGVLLFWTLNWLALGQCVLAGAFASYWAFHKPQDIPTFPLISAFIRTLR
 YHTGSLAFGALILTQVQIARVILEYIDHKLGRVQNPVARCIMCCFKCCLWCLEKFIKFLNRNAYIMIAIY
 GKNFCVSAKNAFMLMRNIVRVVLDKVDLLFFGKLLVVGVGVLVSGRIPGLGKDFKSPHLNY
 YWLPIMTSILGAYVIASGFFSVFGMCDVTLFLCFLEDLERNNGSLDRPYYSKSLLLKILGKKNAPPDNK
 KRKK

TRTRPLE – GFP Tag – V

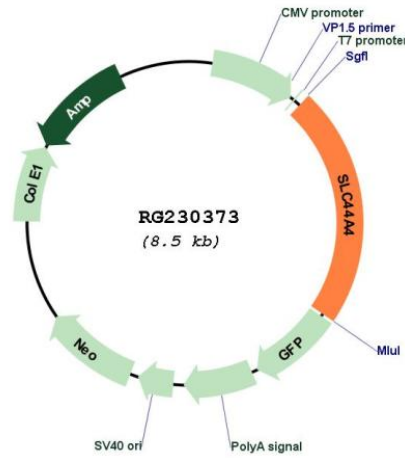
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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:	<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_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
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]