

Product datasheet for **RG230412**

SLC44A4 (NM_001178044) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC44A4 (NM_001178044) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG230412 representing NM_001178044
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGGAAAGCAGCGGGACGAGGATGACGAGGCTACGGGAAGCCAGTCAAATACGACCCTCCTTTC
 GAGGCCCCATCAAGAACAGAAGCTGCACAGATGCATCTGCTGCGTCCTTCTCTGCTCTTCATTCTAGG
 TTACATCGTGGTGGGATTGTGGCCTGGTTGTATGGAGACCCCGCAAGTCCTCTACCCAGGAACTCT
 ACTGGGGCTACTGTGGCATGGGGGAGAAAGATAAGCCGTATCTCTGTACTTCAACATCTTCAGCT
 GCATCCTGTCCAGCAACATCATCTCAGTTGCTGAGAACGGCCTACAGTGGCCACACCCACAGCGGTGAT
 CACAAGCCTGCAACAGGAACTCTGCCCCAGTTTCTCTCCCCTCTGCTCCAGCTCTGGGGCGCTGCTTT
 CCATGGACCAACGTTACTCCACCGGCGCTCCAGGGATACCAATGACACCACCATACAGCAGGGGATCA
 GCGGTCTTATTGACAGCCTCAATGCCCGAGACATCAGTGTAAAGATCTTGAAGATTTGCCAGTCTGT
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 GTGGCTGGGCCCTGGTCTGGTCTGATCCTGGGAGTGTGGGCGTGTGGCATACGGCATCTACTACT
 GCTGGGAGGAGTACCGAGTGTGCGGGACAAGGGCGCCTCCATCTCCCAGCTGGGTTTACCACCAACCT
 CAGTGCCTACCAGAGCGTGCAGGAGACCTGGTGGCCGCCTGATCGTGTGGCGGTGCTTGAAGCCATC
 CTGCTGCTGATGCTCATCTTCTGCGGCAGCGGATTTCGTATTGCCATCGCCCTCTGAAGGAGGCCAGCA
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 GACCCCTGTGAGATAGCCCGGTCTCTGGAGTATATTGACCACAAGCTCAGAGGAGTGCAGAACCTT
 GTAGCCCCTGCATCATGTGCTGTTTCAAGTGTGCTGCTGCTGGTGTCTGGAAAAATTTATCAAGTCTTAA
 ACCGCAATGCATACATCATGATCGCCATCTACGGGAAGAATTTCTGTGTCTCAGCCAAAAATGCGTTCAT
 GCTACTCATGCGAAACATTGTCAGGGTGGTCGCTCTGGACAAAGTACAGACCTGCTGCTGTTCTTTGGG
 AAGCTGCTGGTGGTGGAGGGCTGGGGTCTGTCTTCTTTTTTCTCCGGTGCATCCCGGGCTGG
 GTAAAGACTTTAAGAGCCCCACCTCAACTATTACTGGCTGCCATCATGACCTCCATCCTGGGGGCTTA
 TGTTCATGCCAGCGGCTTCTCAGCGTTTTTCGGCATGTGTGTGGACACGCTTCTCCTGCTTCTGGAA
 GACCTGGAGCGGAACAACGGCTCCCTGGACCGCCCTACTACATGTCCAAGACCTTCTAAAGATTCTGG
 GCAAGAAGAACGAGGCGCCCGGACAACAAGAAGAGGAAGAAG

ACGCGTACGCGGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG230412 representing NM_001178044
 Red=Cloning site Green=Tags(s)

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MGGKQRDEDEAYGKPKYDPSFRGPIKNRSDVICCVLFLFILGYIVVGIVAWLYGDPQVLYPRNS
TGAYCGMGENKDKPYLLYFNIFSCILSSNIISVAENGLQCPTPQTVITSLQQELCPSFLLPSAPALGRFC
PWTNVTTPALPGITNDTTIQGGISGLIDSLNARDISVKIFEDFAQSWYWLVALGVALVLSLLFILLRL
VAGPLVLVILGVLGVLAYGIYCWEEYRVLKDKGASISQLGFTTNLSAYQSVQETWLAALIVLAVLEAI
LLLMLIFLRQRIRIAIALLLKEASKAVGQMMSTMFYPLVTFVLLLICIAYWAMTALYLATSGQPQYVLWAS
NISSPGCEKVPINTSCNPTAHLVNSSCPGLMCFVQGYSSKGLIQRSVFNLQIYGVLLGFWTLNWWLALGQ
CVLAGAFASFYWAFHKPQDIPTFPLISAFIRTLRYHTGSLAFGALILTLVQIARVILEYIDHKLRGVQNP
VARCIMCCFKCLWCLEKFIKFLNRNAYIMIAIYGKNFCVSAKNAFMLLMRNIVRVVVLDKYVTDLLFFG
KLLVVGVGVLVSSFFSGRIPGLGKDFKSPHLNYYWLPIMTSILGAYVIASGFFSVFGMCDTFLFCLE
DLERNNGSLDRPYYSKSLKILGKKNEAPPDNKKRKK
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001178044

ORF Size: 2004 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_001178044.1](#), [NP_001171515.1](#)

RefSeq Size: 2517 bp

RefSeq ORF: 2007 bp

Locus ID: 80736

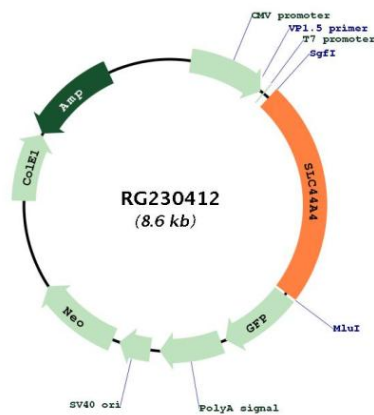
UniProt ID: [Q53GD3](#)

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]

Product images:



Circular map for RG230412