

Product datasheet for **RG217264**

SLC44A4 (NM_025257) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC44A4 (NM_025257) 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:

>RG217264 representing NM_025257
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGGAAAGCAGCGGACGAGGATGACGAGGCTACGGGAAGCCAGTCAAATACGACCCTCCTTTC
 GAGGCCCCATCAAGAACAGAAGCTGCACAGATGCATCTGCTGCGTCCTCTTCTGCTCTTCATTCTAGG
 TTACATCGTGGTGGGATTGTGGCCTGGTTGTATGGAGACCCCGCAAGTCCTCTACCCAGGAACTCT
 ACTGGGGCTACTGTGGCATGGGGGAGAACAAGATAAGCCGTATCTCTGTACTTCAACATCTTCAGCT
 GCATCCTGTCCAGCAACATCATCTCAGTTGCTGAGAACGGCTACAGTGGCCACACCCAGGTGTGTGT
 GTCCTCTGCCCGGAGGACCCATGGACTGTGGGAAAAACGAGTTCTCACAGACTGTTGGGGAAGTCTTC
 TATAAAAAACAGGAACTTTTGTCTGCCAGGGTACCCTGGAATATGACGGTGATCACAAGCCTGCAAC
 AGGAACTCTGCCAGTTTCTCTCTCCCTCTGCTCCAGCTCTGGGGCGTGCTTCCATGGACCAACGT
 TACTCCACGGCGCTCCAGGGATACCAATGACACCACATACAGCAGGGGATCAGCGGCTTATTGAC
 AGCCTCAATGCCCGAGACATCAGTGTTAAGATCTTGAAGATTTTGCCAGTCTGGTATTGGATTCTTG
 TTGCCCTGGGGTGGCTCTGGTCTTGAGCCTACTGTTATCTTGCTTCTGCGCCTGGTGGCTGGGCCCT
 GGTGCTGGTGTGATCCTGGGAGTGTGGGCGTGTGGCATAACGGCATCTACTACTGCTGGGAGGAGTAC
 CGAGTGTGCGGGACAAGGGCGCCTCCATCTCCAGCTGGGTTTACCACCAACCTCAGTGCCTACCAGA
 GCGTGCAGGAGACCTGGCTGGCCGCCCTGATCGTGTGGCGGTGCTTGAAGCCATCTGTGTGATGCT
 CATCTTCTGCGGCAGCGGATTCGATTGCCATCGCCCTCTGAAGGAGGCCAGCAAGGCTGTGGGACAG
 ATGATGTCTACCATGTTCTACCCACTGGTACCTTTGTCTCTCTCTCATCTGCATTGCCTACTGGGCCA
 TGACTGCTGTACCTGGCTACATCGGGCAACCCAGTATGTGCTCTGGGCATCCAACATCAGCTCCCC
 CGGCTGTGAGAAAAGTCCAATAAATACATCATGCAACCCACGGCCACCTTGTGAACCTCTCGTCCCA
 GGGCTGATGTGCGTCTTCCAGGGCTACTCATCAAAGGCCTAATCCAACGTTCTGTCTTCAATCTGCAAA
 TCTATGGGGTCTGGGGCTTTCTGGACCCTTAACTGGTACTGGCCCTGGGCAATGCGTCTCGCTGG
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 TTCATCCGCACACTCCGTACCACACTGGGTATTGGCATTGGAGCCCTCATCTGACCCTTGTGCAGA
 TAGCCCGGTCTCTGGAGTATATTGACCACAAGCTCAGAGGAGTGCAGAACCTGTAGCCCGCTGCAT
 CATGTGCTGTTTCAAGTGTGCTCTGGTGTCTGGAAAAATTTATCAAGTTCTAAACCGCAATGCATAC
 ATCATGATCGCCATCTACGGGAAGAATTTCTGTGTCTCAGCCAAAATGCGTTTCATGCTACTCATGCGAA
 ACATTGTCAGGGTGGTCTGCTGGACAAAAGTACAGACCTGCTGCTGTTCTTGGGAAGCTGCTGGTGGT
 CGGAGGCTGGGGTCTGTCCTCTTTTTTTTTCTCCGGTGCATCCCGGGCTGGGTAAGACTTTAAG
 AGCCCCACCTCAACTATTACTGGCTGCCATCATGACCTCCATCCTGGGGGCTATGTCATCGCCAGCG
 GCTTCTCAGCGTTTTCCGCATGTGTGGACACGCTCTTCTCTGCTTCTGGAAGACCTGGAGCGGAA
 CAACGGCTCCCTGGACCGGCCCTACTACATGTCCAAGAGCCTTCTAAAGATTCTGGGCAAGAAGAACGAG
 GCGCCCCGACAACAAGAAGAGGAAGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG217264 representing NM_025257
 Red=Cloning site Green=Tags(s)

MGGKQRDEDEAYGKPKYDPSFRGPIKNRSCDVIICCVLFLF ILGYIVVGIVAWLYGDPQVLYPRNS
 TGAYCGMGENKDKPYLL YFNIFSCILSSNIISVAENGLQCPTPQVCVSSCPEDPWTVGKNEFSQTVGEVF
 YTKNRNFC L PGVPWNMTVITSLQQELCP S FLLPSAPALGRCFPWTNVTTPALPGITNDTTIQQGISGLID
 SLNARDISVKIFEDFAQSWYWILVALGVALVLSLLFILLRLVAGPLVLVLILGVLGVLAYGIYYCWEEY
 RVL RDKGASISQLGFTTNLSAYQSVQETWLAALIVLAVLEAILLMLIFLRQRIRIAIALKEASKAVGQ
 MMSTMFYPLVTFVLLLCIAYWAMTALYLATSGQPQYVWASNISSPGCEKVPINTSCNPTAHLVNSSCP
 GLMCFVQGYSSKGLIQRSVFNLQIYGVGLFWTLNWWLALGQCVLAGAFASFYWAFHKPQDIPTFPLISA
 FIRTLRYHTGSLAFGALILTLVQIARVILEYIDHKL RGVQNPVARCIMCCFKCCLWCLEKFIKFLNRNAY
 IMIAIYGKNFCVSAKNAFMLLRNIVRVVVDKVDL L L FFGKLLVGGVGVLSFFFSGRIPGLGKDFK
 SPHLNYYWLPIMTSILGAYVIASGFFSVFGMCDTLFLCFLEDLERNNGSLDRPYMKSLLKILGKKNE
 APPDNKKRKK

TRTRPLE - GFP Tag - V

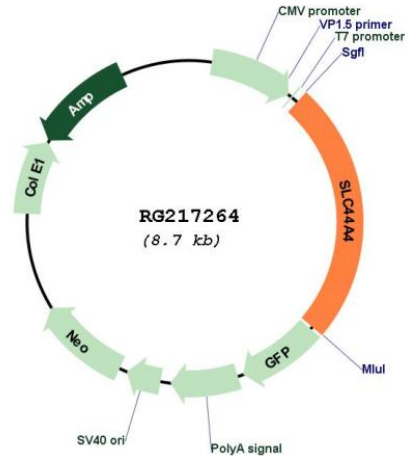
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_025257

ORF Size: 2130 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](#)

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_025257.3](#)

RefSeq Size: 2643 bp

RefSeq ORF: 2133 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]