

## Product datasheet for **RG227729**

### SLC44A2 (NM\_001145056) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC44A2 (NM_001145056) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC44A2
Synonyms:	CTL2; PP1292
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG227729 representing NM\_001145056  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAGGACGAGCGGAAAAACGGAGCCTACGGAACGCCACAGAAGTATGATCCCACCTTTCAAAGGACCCA  
 TTTACAATAGGGGCTGCACGGATATCATATGCTGTGTGTTCTCTGCTCCTGGCCATTGTGGGCTACGTGGC  
 TGTAGGCATCATAGCCTGGACTCATGGAGACCCTCGAAAGGTGATCTACCCCACTGACAGCCGGGCGAG  
 TTCTGCGGGCAGAAGGGCACAAAAACGAGAACAACCCATCTGTTTTATTCAACATTGTGAAATGTG  
 CCAGCCCCCTGGTTCTGCTGGAATTCGAATGTCCCACTCCCAGATCTGCGTGAAAAATGCCCGACCG  
 CTACCTCACGTACCTGAATGCTCGCAGCTCCCGGGACTTTGAGTACTATAAGCAGTTCTGTGTTCTGCG  
 TTCAAGAACAAATAAAGGAGTGGCTGAGGTGCTTCAAGATGGTACTGCTGCTGCTCCTCATCCCAGCA  
 AACCTTGGCCCCGAGATGCTTCCCGCTATCCACGCCTACAAGGGTGCCTGATGGTGGCAATGAGAC  
 GACCTATGAGGATGGGCATGGCTCCCGAAAAACATCACAGACCTGGTGGAGGGCCCAAGAAAGCCAAT  
 GGAGTCTAGAGGCGCGCAACTCGCCATGCGCATATTTGAAGATTACACCGTCTCTTGGTACTGGATTA  
 TCATAGGCCTGGTCATTGCCATGGCGATGAGCCTCCTGTTTCATCATCCTGCTTCGCTTCCGGCTGGTAT  
 TATGGTCTGGGTGATGATCATCATGGTATTCTGGTGTGGGCTACGGAATATTTCACTGCTACATGGAG  
 TACTCCCGACTGCGTGGTGGAGCCGGCTCTGATGTCTCTTTGGTGGACCTCGGCTTTCAGACGGATTTCC  
 GGGTGTACTGCACTTACGGCAGACCTGGTTGGCCTTTATGATCATTCTGAGTATCCTTGAAGTCATTAT  
 CATCTTGCTGCTCATCTTCTCCGAAGAGAATTCTCATCGCGATTGCACTCATCAAAGAAGCCAGCAGG  
 GCTGTGGGATACGTATGTGCTCCTTGTCTACCCACTGGTCACTTCCAACGAAGCGGTCTATAAGATCTTGTGACAG  
 CCTACTGGGCCAGCACTGTGTTCTCTGTCCACTTCCAACGAAGCGGTCTATAAGATCTTGTGACAG  
 CCCCTGCCCATTTACTGCGAAAACTGCAACCCAGAGACCTTCCCTCCTCCAATGAGTCCCGCCAATGC  
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 GCCTTTGGCCGGGCGCTCAGGTACCACACAGGCTCCCTGGCCTTTGGCGCGCTCATCCTGGCCATTGTGC  
 AGATCATCCGTGTGATACTCGAGTACCTGGATCAGCGGCTGAAAGCTGCAGAGAACAAAGTTTCCAAGTG  
 CCTCATGACCTGTCTCAAATGCTGCTTCTGGTGCCTGGAGAAGTTCATCAAATTCCTTAATAGGAATGCC  
 TACATCATGATTGCCATCTACGGCACCAATTTCTGCACCTCGGCCAGGAATGCCTTCTTCTGCTCATGA  
 GAAACATCATCAGAGTGGCTGTCTGGATAAAGTTACTGACTTCCCTTCTCCTGTTGGGCAAACTTCTGAT  
 CGTTGGTAGTGTGGGATCCTGGCTTCTTCTTCTTACCACCGGTATCAGGATCGTGCAGGATACAGCA  
 CCACCCCTCAATTACTGGGTTCTATACTGACGGTATCGTTGGCTCCTACTTGATTGCACACGGTT  
 TCTTCAGCGTCTATGGCATGTGTGTGGACACGCTGTTCTCTGCTTCTTGGAGGACCTGGAGAGGAATGA  
 CGGCTCGGCCGAGAGGCCTTACTTCATGTCTTCCACCCTCAAGAACTCTTGAACAAGACCAACAAGAAG  
 GCAGCGGAGTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG227729 representing NM\_001145056  
 Red=Cloning site Green=Tags(s)

MEDERKNGAYGTPQKYDPTFKGPIYNRGCTDIICCVFLLLAIVGYVAVGIIAWTHGDPKVIYPTDSRGE  
 FCGQKGTKNENKPYLFYFNIVKASPLVLEFQCPTPQICVEKCPDRYLTYLNARSSRDFEYKQFCVPG  
 FKNNKGVAEVLQDGDPAVLIPSKPLARRCFPAIHAYKGVLMVGNETTYEDGHGSRKNITDLVEGAKKAN  
 GVLEARQLAMRIFEDYTVSWYWIIGLVIAMAMSLLFIIILLRFLAGIMVWYMIIMVILVLGYGIFHCYME  
 YSRLRGEAGSDVSLVDLGFQTDFRVYLHLRQTLWAFMIILSILEVIIILLIFLRKRILIAIALIKEASR  
 AVGYVMCSLLYPLVTFLLCLCIAYWASTAVFLSTSNEAVYKIFDDSPCPFTAKTCNPETFPSSNESRQC  
 PNARCQAFYGGESGYHRALLGLQIFNAFMFFWANFVLALGQVTLAGAFASYWALRKPDDLPAFPLFS  
 AFGRALRYHTGSLAFGALILAIVQIIRVILEYLDQRLKAAENKFAKCLMTCLKCCFWCLEKFIKFLNRNA  
 YIMIAIYGTNFCTSARNAFFLLMRNIIRVAVLDKVTDFLLGKLLIVGSVGILAFFFFTHRIRIVQDTA  
 PPLNYYWVPILTVIVGSYLIAHGFFSVYGMCDVTLFLCFLEDLERNDGSAERPYPMSSTLKKLLNKTKK  
 AAES

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001145056

**ORF Size:** 2112 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\\_001145056.2](#)

**RefSeq Size:** 3375 bp

**RefSeq ORF:** 2115 bp

**Locus ID:** 57153

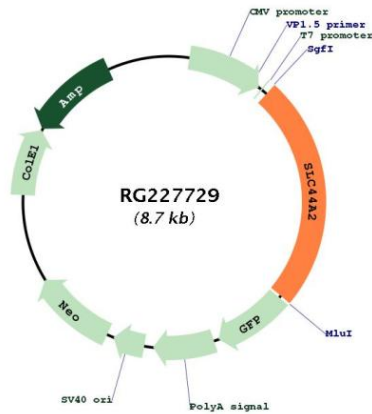
**UniProt ID:** [Q8IWA5](#)

**Cytogenetics:** 19p13.2

**Protein Families:** Transmembrane

**Gene Summary:** Isoform 1, but not isoform 3, exhibits some choline transporter activity.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG227729