

Product datasheet for **RG208625**

SLC37A2 (NM_198277) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC37A2 (NM_198277) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC37A2
Synonyms:	pp11662
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG208625 representing NM_198277
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGTCTCCCTGGCTCCGGGAGTCTGGTTCTCCGGGCTTCTCCAGGGACAGCTGGTTCAGAGGCC
 TCATCCTGCTGCTGACCTTCTAATTTACGCCTGCTATCACATGTCCAGGAAGCCTATCAGTATCGTCAA
 GAGCCGCTGCACCAGAAGTCTCGGAGCAGATCAAACCCATCAATGATACTCACAGTCTCAATGACACC
 ATGTGGTGCAGCTGGGCCCATTTGACAAGGACAACTATAAGGAGTTACTAGGGGGCGTGGACAACGCCCT
 TCCTCATCGCCTATGCCATCGGCATGTTTATCAGTGGGGTTTTGGGGAGCGGCTCCGCTCCGTTACTA
 CCTCTCAGCTGGAATGCTGCTCAGTGGCCTTTTACCTCGCTCTTTGGCCTGGGATTTTCTGGAACATC
 CACGAGCTCTGGTACTTTGTGGTATCCAGGTCTGTAATGGACTCGTCCAGACCACAGGCTGGCCCTCTG
 TGGTGACCTGTGTGGCAACTGGTTCGGGAAGGGGAAGCGGGGTTTATCATGGGCATCTGGAATCCCA
 CACATCTGTGGGCAACATCCTGGGCTCCCTGATCGCCGGCATCTGGGTGAACGGGCAGTGGGGCCTGTCG
 TTCATCGTGCCTGGCATATTACTGCCGTCATGGGCGTCATCACCTTCTCTTCCATCGAACACCCAG
 AAGATGTGGACTGCGCCCTCCTCAGCACCACGGTGAGCCAGCTGAGAACCAGGACAACCTGAGGACCC
 TGGGAACAGTCCCTGCTATCAGGGAGAGCGCCTTGAGACTGTGGCCAAATGCTCCAAGGGGCCATGC
 GAAGAGCCTGCTGCCATCAGCTTCTTTGGGGCGCTCCGGATCCCAGGCGTGGTCGAGTTCTCTGTGTC
 TGCTGTTTGCCAAGCTGGTCAGTTACACCTTCTCTACTGGTGGCCCTTACATCGCCAATGTGGCTCA
 CTTTAGTGCCAAGGAGGCTGGGGACCTGTCTACACTCTTCGATGTTGGTGGCATCATAGGCGGCATCGTG
 GCAGGGCTCGTCTCTGACTACACCAATGGCAGGGCCACCACTTGCTGTGTCATGCTCATCTTGGCTGCC
 CCATGATGTTCCGTACAACATACATTGGCCAGGACGGGATTGCCAGCTCCATAGTATGATGCTGATGCTG
 TGGGGCCTGGTCAATGGCCCATACGCGCTCATCACCACTGCTGTCTCTGCTGACCTGGGGACTACAAG
 AGCCTGAAGGGCAACGCCAAAGCCCTGTCCACGGTCACGGCCATCATTGACGGCACCGGCTCCATAGGTG
 CGGCTCTGGGGCCTCTGCTGGCTGGGCTCATCTCCCCACGGGCTGGAACAATGTCTTCTACATGCTCAT
 CTCTGCCGACGCTCTAGCCTGCTTGTCTCTTTGCCGGTAGTATACAAAGAGATCTTGGCCTGGAAGGTG
 TCCCTGAGCAGAGGCAGCGGCTTAGTATGGTCTTAACCCACCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208625 representing NM_198277
 Red=Cloning site Green=Tags(s)

MRSSLAPGVWFFRAFSRDSWFRGLILLTFLIYACYHMSRKPISIVKSRLHQNCSEQIKPINDTHSLNND
 MWCSWAPFDKDNKELLGGVDNAFLIAYAIGMFI SGVFGERLPLRYLLSAGMLLSGLFTSLFGLGYFWNI
 HELWYFVVIQVCNGLVQTTGWPSVVTGCVGNWFGKGRGFIMGIWNSHTSVGNILGSLIAGIWNQWGLS
 FIVPGIITAVMGVITFLFLIEHPEDVDCAAPPQHHEGPAENQDNPEDPGNSPCSIRESGLETVAKCSKGPC
 EEPAAISFFGALRIPGVVEFSLCLLFAKLVSYTFLYWLPYIANVAHFSAKEAGDLSTLFDVGGIIGGIV
 AGLVSDYTNGRATTCCVMLILAAPMMFLYNYIGQDGIASSIVMLIICGGLVNGPYALITTAVSADLGTK
 SLKGNALSTVTAIIDGTGSIGAALGPLLAGLISPTGWNNVYMLISADVLACLLLCRLVYKEILAWKV
 SLSRGSGSSMVLTHQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_198277

ORF Size: 1515 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_198277.1](#), [NP_938018.1](#)

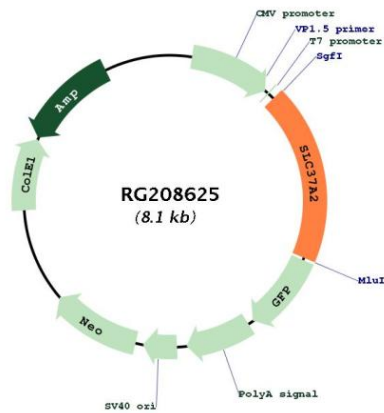
RefSeq Size: 2720 bp

RefSeq ORF: 1518 bp

Locus ID: 219855

UniProt ID: [Q8TED4](#)
 Cytogenetics: 11q24.2
 Protein Families: Transmembrane
 Gene Summary: Inorganic phosphate and glucose-6-phosphate antiporter. May transport cytoplasmic glucose-6-phosphate into the lumen of the endoplasmic reticulum and translocate inorganic phosphate into the opposite direction. Independent of a luminal glucose-6-phosphatase. May not play a role in homeostatic regulation of blood glucose levels.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208625