

Product datasheet for **RG228365**

SLC37A4 (NM_001164278) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC37A4
Synonyms:	G6PT1; G6PT2; G6PT3; GSD1b; GSD1c; GSD1d; PRO0685; TRG-19; TRG19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG228365 representing NM_001164278
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAGCCAGGGCTATGGCTATTATCGCACTGTGATCTTCTCAGCCATGTTTGGGGCTACAGCCTGT
 ATTACTTCAATCGCAAGACCTTCTCCTTTGTCATGCCATCATTGGTGGAAGAGATCCCTTTGGACAAGGA
 TGATTTGGGGTTCATCACCAGCAGCCAGTCGGCAGCTTATGCTATCAGCAAGTTTGTAGTGGGGTGCTG
 TCTGACCAGATGAGTGTCTGCTGGCTCTTCTCTCTGGGCTGCTCCTGGTTGGCCTGGTCAACATATTCT
 TTGCTGGAGCTCCACAGTACCTGTCTTGTGCTGCCCTCTGGTTCCTTAATGGCCTGGCCAGGGGCTGGG
 CTGGCCCCCATGTGGGAAGGTCCTGCGGAAGTGGTTTGAGCCATCTCAGTTTGGCACTTGGTGGGCCATC
 CTGTCAACCAGCATGAACCTGGCTGGAGGGCTGGGCCCTATCCTGGCAACCATCCTTGGCCAGAGCTACA
 GCTGGCGCAGCAGCTGGCCCTATCTGGGCACTGTGTGTGGTTGTCTCCTTCTCTGTCTCCTGCTCAT
 CCACATGAACCTGCTGATGTTGGACTCCGAACCTGGACCCCATGCCCTCTGAGGGCAAGAAGGGCTCC
 TTGAAGGAGGAGAGCACCCTGCAGGAGCTGCTGCTGTCCCCTTACCTGTGGGTGCTCTCCACTGGTTACC
 TTGTGGTGTGGAGTAAAGACCTGCTGTACTGACTGGGGCCAGTTCTTCTTATCCAGGAGAAAGGACA
 GTCAGCCCTGTAGGTAGCTCCTACATGAGTGCCCTGGAAGTTGGGGCCCTGTAGGCAGCATCGCAGCT
 GGCTACCTGTCAGACCGGGCCATGGCAAAGCGGGACTGTCCAACACGGGAACCCTCGCCATGGCCTGT
 TGCTGTTTCATGATGGCTGGCATGACAGTGCCATGTACCTCTTCCGGGTAAACAGTGACCACTGACTCCCC
 CAAGGATGTTGCTTTCTGGACTCTGGCTCTTACCCTCTCGCGGAGCTCACAGGCTTTACAGAGCATGAG
 CTCTGGATCCTGGTATTGGGAGCTGTATTGGTTTCTCCTCGTATGGCCCCATTGCCCTGTTTGGAGTCA
 TAGCCAACGAGAGTGCCCTCCCACTTGTGTGGCACCTCCACGCCATTGTGGGACTCATGGCCAATGT
 GGGCGGCTTTCTGCTGGGCTGCCCTTACGACCATTTGCCAAGCACTACAGTTGGAGCACAGCCTTCTGG
 GTGGCTGAAGTGATTTGTGCGGCCAGCACGGCTGCCTTCTCCTCTACGAAACATCCGCACCAAGATGG
 GCCGAGTGTCCAAGAAGGCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228365 representing NM_001164278
 Red=Cloning site Green=Tags(s)

MAAQGYGYRTVIFSAMFGGYSLYYFNKTFSTFVMPSLVEEIPDKDDLGFITSSQSAAYAISKFVSGVL
 SDQMSARWLFSSGLLLVGLVNIFFAWSSTVPVFAALWFLNGLAQGLGWPPCGKVLKWFEPSTQFTWWAI
 LSTSMNLAGGLGPILATILAQSYSWRSTLALSGALCVVVSFLCLLLIHNEPADVGLRNLDPMPSEGKKGS
 LKEESTLQELLLSPYLWVLSTGYLVVFGVKTCCTDWGQFFLIQEKQSALVGSSYMSALEVGLVGSIAA
 GYLSDRAMAKAGLSNYGNPRHGLLLFMMAGMTVSMYLFRTVTSDSPKDVAFWTLALHPLAELTGFTHE
 LWILVLGAVFGFSSYGPIALFGVIANESAPPNLCGTSHAIVGLMANVGGFLAGLPFSTIAKHYSWSTAFW
 VAEVICAATAAFFLLRNIRTKMGRVSKKAE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001164278

ORF Size: 1353 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.

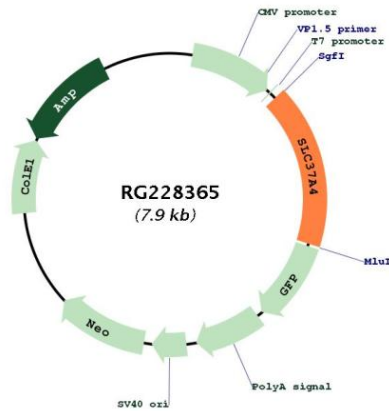
RefSeq: [NM_001164278.2](#)

RefSeq Size: 2371 bp
 RefSeq ORF: 1356 bp
 Locus ID: 2542
 UniProt ID: [O43826](#)
 Cytogenetics: 11q23.3

Protein Families: Transmembrane

Gene Summary: This gene regulates glucose-6-phosphate transport from the cytoplasm to the lumen of the endoplasmic reticulum, in order to maintain glucose homeostasis. It also plays a role in ATP-mediated calcium sequestration in the lumen of the endoplasmic reticulum. Mutations in this gene have been associated with various forms of glycogen storage disease. Alternative splicing in this gene results in multiple transcript variants.[provided by RefSeq, Aug 2009]

Product images:



Circular map for RG228365