

Product datasheet for **RG228893**

SLC37A4 (NM_001164280) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC37A4 (NM_001164280) Human Tagged ORF Clone
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)
ORF Nucleotide Sequence:	>RG228893 representing NM_001164280 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCCAGGGCTATGGCTATTATCGCACTGTGATCTTCTCAGCCATGTTTGGGGGCTACAGCCTGT
ATTACTTCAATCGCAAGACCTTCTCCTTTGTGATGCCATCATTGGTGGAAGAGATCCCTTTGGACAAGGA
TGATTTGGGGTTCATCACCAGCAGCCAGTCGGCAGCTTATGCTATCAGCAAGTTTGTGAGTGGGGTCTG
TCTGACCAGATGAGTGTCTGCTGGCTCTTCTTCTGGGCTGCTCCTGGTTGGCCTGGTCAACATATTCT
TTGCCTGGAGCTCCACAGTACCTGTCTTGTGCTGCCCTCTGGTTCCCTAATGGCCTGGCCAGGGGCTGGG
CTGGCCCCATGTGGGAAGGTCCTGCGGAAGTGGTTTGGCCATCTCAGTTTGGCACTTGGTGGCCATC
CTGTCAACCAGCATGAACCTGGCTGGAGGGCTGGGCCCTATCCTGGCAACCATCCTTGGCCAGAGCTACA
GCTGGCGCAGCAGCTGGCCCTATCTGGGGCACTGTGTGTGGTTGTCTCCTTCTCTGTCTCCTGTCTCAT
CCACAATGAACCTGTGATGTTGGACTCCGCAACCTGGACCCATGCCCTCTGAGGGCAAGAAGGGCTCC
TTGAAGGAGGAGACCCCTGCAGGAGCTGCTGCTGTCCCTTACCTGTGGGTGCTCTCCACTGGTTACC
TTGTGGTGTGGAGTAAAGACCTGCTGTACTGACTGGGGCCAGTTCTTCTTATCCAGGAGAAAGGACA
GTCAGCCCTTGTAGGTAGCTCCTACATGAGTGCCTGGAAGTTGGGGCCTTGTAGGCAGCATCGCAGCT
GGCTACCTGTGACACGGGCCATGGCAAAGCGGGACTGTCCAACCTACGGGAACCCCTCGCCATGGCCTGT
TGCTGTTTATGATGGCTGGCATGACAGTGTCCATGTACCTCTTCCGGGTAAACAGTGACCAAGTACTCCCC
CAAGCTCTGGATCCTGGTATTGGGAGCTGTATTTGGTTTCTCCTCGTATGGCCCCATTGGCCTGTTTGA
GTCATAGCCAACGAGAGTGCCCTCCCAACTTGTGTGGCACCTCCACGCCATTGTGGGACTCATGGCCA
ATGTGGGCGGCTTCTGGCTGGGCTGCCCTTCAAGCATTGCCAAGCACTACAGTTGGAGCACAGCCTT
CTGGGTGGCTGAAGTGATTTGTGCGGCCAGCACAGCTGCCTTCTCTCTACGAAACATCCGCACCAAG
ATGGGCCGAGTGTCCAAGAAGGCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >RG228893 representing NM_001164280
 Red=Cloning site Green=Tags(s)

MAAQGYGYRTVIFSAMFGGYSLYYFNKRTFSFVMPSLVEEIPDKDDLGFITSSQSAAYAISKFVSGVL
 SDQMSARWLFSSGLLLVGLVNIFFAWSSTVPVFAALWFLNGLAQGLGWPPCGKVLKWFEPSTQGTWWAI
 LSTSMNLAGGLPILATILAQSYSWRSTLALSGALCVVVSFLCLLLIHNEPADVGLRNLDPMPSEGGKGS
 LKEESTLQELLSPYLWVLTGYLVVFGVKTCTDWGQFFLIQEKQGSALVGSYSYMSALEVGGLVGSIAA
 GYLSDRAMAKAGLSNYGNPRHGLLLFMMAGMTVSMYLFRTVTSDSPKLWILVLGAVFGFSSYGPIALFG
 VIANESAPPNLCGTSHAIVGLMANVGGFLAGLPFSTIAKHYSWSTAFWVAEICAATAAFFLLRNIRTK
 MGRVSKKAE

TRTRPLE – GFP Tag – V

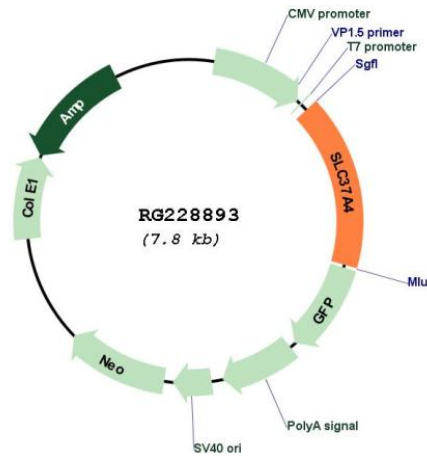
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001164280

ORF Size:	1287 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:	<ol style="list-style-type: none">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_001164280.1 , NP_001157752.1
RefSeq Size:	2063 bp
RefSeq ORF:	1290 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]