

## Product datasheet for **RG228841**

### SLC37A4 (NM\_001164279) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC37A4 (NM_001164279) 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:	>RG228841 representing NM_001164279 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCCAGGGCTATGGCTATTATCGCACTGTGATCTTCTCAGCCATGTTTGGGGGCTACAGCCTGT  
ATTACTTCAATCGCAAGACCTTCTCCTTTGTGATGCCATCATTGGTGGAAGAGATCCCTTTGGACAAGGA  
TGATTTGGGGTTCATCACCAGCAGCCAGTCGGCAGCTTATGCTATCAGCAAGTTTGTGAGTGGGGTCTG  
TCTGACCAGATGAGTGTCTGCTGGCTCTTCTTCTGGGCTGCTCCTGGTTGGCCTGGTCAACATATTCT  
TTGCCTGGAGCTCCACAGTACCTGTCTTGTGCTGCCCTCTGGTTCCCTAATGGCCTGGCCAGGGGCTGGG  
CTGGCCCCATGTGGGAAGGTCCTGCGGAAGTGGTTTGGCCATCTCAGTTTGGCACTTGGTGGCCATC  
CTGTCAACCAGCATGAACCTGGCTGGAGGGCTGGGCCCTATCCTGGCAACCATCCTTGGCCAGAGCTACA  
GCTGGCGCAGCAGCTGGCCCTATCTGGGGCACTGTGTGTGGTTGTCTCCTTCTCTGTCTCCTGTCTCAT  
CCACAATGAACCTGTGATGTTGGACTCCGCAACCTGGACCCATGCCCTCTGAGGGCAAGAAGGGCTCC  
TTGAAGGAGGAGACCCCTGCAGGAGCTGCTGCTGTCCCCTTACCTGTGGGTGCTCTCCACTGGTTACC  
TTGTGGTGTGGAGTAAAGACCTGCTGTACTGACTGGGGCCAGTTCTTCCTTATCCAGGAGAAAGGACA  
GTCAGCCCTTGTAGGTAGCTCCTACATGAGTGCCTGGAAGTTGGGGCCTTGTAGGCAGCATCGCAGCT  
GGCTACCTGTGACACGGGCCATGGCAAAGCGGGACTGTCCAACACTACGGGAACCCCTCGCCATGGCCTGT  
TGCTGTTTCATGATGGCTGGCATGACAGTGTCCATGTACCTCTTCCGGGTAAACAGTGACCAAGTACTCCCC  
CAAGCTCTGGATCCTGGTATTGGGAGCTGTATTTGGTTTCTCCTCGTATGGCCCCATTGGCCTGTTTGA  
GTCATAGCCAACGAGAGTGCCCTCCCAACTTGTGTGGCACCTCCACGCCATTGTGGGACTCATGGCCA  
ATGTGGGCGGCTTCTGGCTGGGCTGCCCTTACGACCAATTGCCAAGCACTACAGTTGGAGCACAGCCTT  
CTGGGTGGCTGAAGTGATTTGTGCGGCCAGCACAGCTGCCTTCTCTCTACGAAACATCCGCACCAAG  
ATGGGCCGAGTGTCCAAGAAGGCTGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228841 representing NM\_001164279  
 Red=Cloning site Green=Tags(s)

MAAQGYGYRTVIFSAMFGGYSLYYFNKRTFSFVMPSLVEEIPDKDDLGFITSSQSAAYAISKFVSGVL  
 SDQMSARWLFSSGLLLVGLVNIFFAWSSTVPVFAALWFLNGLAQGLGWPPCGKVLKWFEPSTQGTWWAI  
 LSTSMNLAGGLPILATILAQSYSWRSTLALSGALCVVVSFLCLLLIHNEPADVGLRNLDPMPSEGGKGS  
 LKEESTLQELLSPYLWVLTGYLVVFGVKTCTDWGQFFLIQEKQSALVGSYSYMSALEVGGLVGSIAA  
 GYLSDRAMAKAGLSNYGNPRHGLLLFMMAGMTVSMYLFRTVTSDSPKLWILVLGAVFGFSSYGPIALFG  
 VIANESAPPNLCGTSHAIVGLMANVGGFLAGLPFSTIAKHYSWSTAFWVAEICAATAAFFLLRNIRTK  
 MGRVSKKAE

TRTRPLE – GFP Tag – V

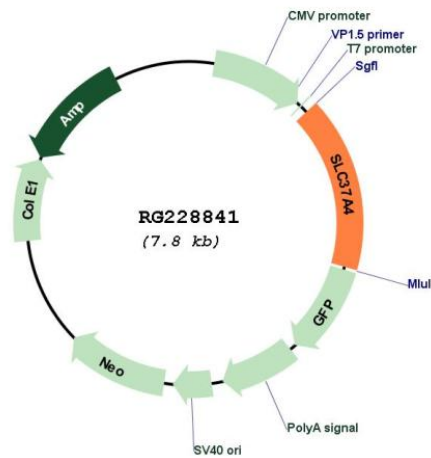
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001164279

<b>ORF Size:</b>	1068 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001164279.1</a> , <a href="#">NP_001157751.1</a>
<b>RefSeq Size:</b>	2047 bp
<b>RefSeq ORF:</b>	1071 bp
<b>Locus ID:</b>	2542
<b>UniProt ID:</b>	<a href="#">O43826</a>
<b>Cytogenetics:</b>	11q23.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]