

## Product datasheet for **RG204865**

### SLC5A6 (NM\_021095) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | SLC5A6 (NM_021095) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                  |
| Symbol:                   | SLC5A6                                    |
| Synonyms:                 | NERIB; SMVT                               |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                    |



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**ORF Nucleotide Sequence:**

>RG204865 representing NM\_021095  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTGTAGGGGTGAGCACCTCAGCCCTCTTCCCAACCTCGGGCACAAGCGTGGGCATGTCTACCT  
 TCTCCATCATGGACTATGTGGTGTTCGCTCTGCTGCTGGTTCTCTCTTGGCATTGGGCTCTACCATGC  
 TTGTCGTGGCTGGGGCCGCATACTGTTGGTGAGCTGCTGATGGCGGACCACAAAATGGGCTGCCTTCCG  
 GTGGCACTGTCCCTGCTGGCCACCTTCCAGTCAGCCGTGGCCATCCTGGGTGTGCCGTGAGAGATCTACC  
 GATTTGGGACCAATATTGGTTCCTGGGCTGCTGCTACTTTCTGGGGCTGCTGATACCTGCACACATCTT  
 CATCCCGTTTTCTACCGCTGCATCTCACCAGTGCTATGAGTACCTGGAGCTTCGATTCAATAAACT  
 GTGCGAGTGTGTGAACTGTGACCTTCATCTTTCAGATGGTGATCTACATGGGAGTTGTGCTCTATGCTC  
 CGTCATTGGCTCTCAATGCAGTACTGGCTTTGATCTGTGGCTGTCCGTGCTGGCCCTGGCATTGTCTG  
 TACCGTCTATACAGCTCTGGGTGGGCTGAAGGCCGTCATCTGGACAGATGTGTTCCAGACACTGGTCATG  
 TTCTCGGGCAGCTGGCAGTTATCATCGTGGGGTCAGCCAAGGTGGGCGGCTTGGGGCGTGTGTGGGCCG  
 TGGCTTCCAGCACGGCCGCATCTCTGGGTTTGGCTGGATCCAGACCCCTTTGTGCGGCACACCTTCTG  
 GACCTTGGCCTTTCGGGGTGTCTTCATGATGCTCTCCTTATACGGGGTGAACCAGGCTCAGGTGCAGCGG  
 TACCTCAGTTCGCCGACGGAGAAGGCTGCTGTGCTCTCCTGTTATGCAGTGTCCCTTCCAGCAGGTGT  
 CCCTCTGCGTGGGCTGCCTCATTGGCCTGGTCAATGTCGCGTATTACCAGGAGTATCCCATGAGCATTCA  
 GCAGGCTCAGGCAGCCCCAGACCAGTTCGTCCTGACTTTGTGATGGATCTCCTGAAGGGCCTGCCAGGC  
 CTGCCAGGGCTCTTCAATGCCTGCCTCTCAGCGGCTCTCAGCACTATATCCTCTGCTTTTAATTCAT  
 TGGCAACTGTTACGATGGAAGACCTGATTCGACCTTGGTCCCTCTCTGAAGCCCGGCCATCAT  
 GCTTTCAGAGGCTTGCCTTTGGCTATGGGCTGCTTTGTCTAGGAATGGCTATATTTCTCCAGATG  
 GGACCTGTGCTGCAGGCAGCAATCAGCATCTTTGGCATGTTGGGGACCCTGCTGGGACTCTTCTGCC  
 TTGGAATGTTCTTCCATGTGCTAACCCCTCCTGGTGTGTTGTGGGCTGTTGGCTGGGCTCGTCATGGC  
 CTTCTGGATTGGCATCGGGAGCATCGTGACCAGCATGGGCTCCAGCATGCCACCCTCTCCCTCTAATGGG  
 TCCAGTCTCTCCCTGCCACCAATCTAACCGTTGCCACTGTGACCACACTGATGCCCTTGACTACCTTCT  
 CCAAGCCACAGGGCTGCAGCGTCTATTCTTGTCTTACTTATGGTACAGTGTCCACAACCTCCACCAC  
 AGTGATTGTGGTGGCCTGATTGTGAGTCTACTACTGGGAGAATGCGAGGCCGGTCCCTGAACCCTGCA  
 ACCATTTACCCAGTGTGCAAAGCTCCTGTCCCTCCTCCGTTGTCTGTGAGAAGCGGCTCCACTGCA  
 GGAGCTACGGCCAGGACCACCTCGACACTGGCCTGTTTCTGAGAAGCCGAGGAATGGTGTGCTGGGGGA  
 CAGCAGAGACAAGGAGGCCATGGCCCTGGATGGACAGCCTATCAGGGGAGCAGCTCCACCTGCATCCTC  
 CAGGAGACCTCCCTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG204865 representing NM\_021095  
 Red=Cloning site Green=Tags(s)

MSVGVSTSAPLSPTSSTGSMSTFSIMDYVVFVLLLVLSLAIGLYHACRGWGRHTVGEMLMADRKMGLP  
 VALSLLATFQSAVAILGVPSEIYRFGTQYWFLGCCYFLGLLIPAHIFIPVFYRLHLTSAYEYELERFNT  
 VRVCGTFTFIFQMVIMGVVLYAPSLALNAVTFDLWLSVLALGIVCTVYALGGLKAVIWTDFVQTLVM  
 FLGQLAVIIVGSAKVGGLGRVAVASQHGRIISGFELDPDFVRHTFWTLAFGGVFMMLSLYGVNQAQVQR  
 YLSSRTEKAAVLSYAVFPFQVSLCVGCLIGLVMFAYYQEYPMISQQAQAAPDQFVLYFVMDLLKGLPG  
 LPGLFIACLFSGSLSTISSAFNSLATVITMEDLIRPWFPEFSEARAIMLSRGLAFGYGLLCLGMAYISSQM  
 GPVLQAATISIFGMVGGPLLGLFCLGMFFPCANPPGAVVGLLAGLVMAFWIGIGSIVTSMGSSMPPSPSNG  
 SSFSLPTNLTVATVTTLMPLTTFKPTGLQRFYSLSYLWYSAHNSTTVIVVGLIVSLLTGRMRGRSLNPA  
 TIYPVLPKLLSLLPLSCQKRLHCRSYGQDHLDTGLFPEKPRNGVLGDSRDKEAMALDGTAYQGSSTCIL  
 QETSL

**TRTRPLE** – GFP Tag – V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_021095

ORF Size: 1905 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\\_021095.3](#)

RefSeq Size: 3162 bp

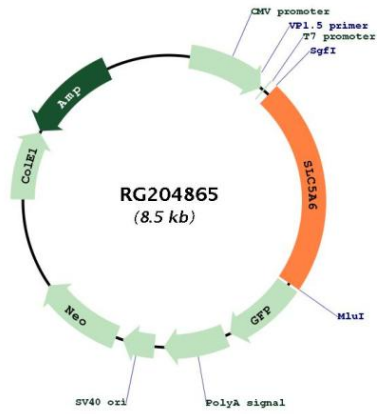
RefSeq ORF: 1908 bp

Locus ID: 8884

UniProt ID: [Q9Y289](#)

Cytogenetics: 2p23.3  
 Domains: SSF  
 Protein Families: Transmembrane  
 Gene Summary: Transports pantothenate, biotin and lipoate in the presence of sodium.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG204865