

## Product datasheet for **RG202942**

### SLC25A3 (NM\_002635) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A3 (NM_002635) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC25A3
Synonyms:	OK/SW-cl.48; PHC; PTP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202942 representing NM_002635 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCTCGTCCGTGGCGCACCTGGCGGGCGAACCCCTTCAACAGCCACATCTGCAGCTGGTGCACG  
ATGGTCTCGGGACCTCCGCAGCAGCTCCCAGGGCCACGGCCAGCCCGCCGCTCGCAACCTGGC  
AGCCGCCCGGTGGAAGAGTACAGTTGTGAATTTGGCTCCGCGAAGTATTATGCACTGTGTGGCTTTGGT  
GGGTCTTAAGTTGTGGTCTGACACACACTGCTGTGGTCCCTGGATTTAGTGAATGCCGATGCAGG  
TGGACCCCAAAAGTACAAGGCATATTTAACGGATTCTCAGTTACACTTAAAGAGGATGGTGTTCGTGG  
TTTGGCTAAAGGATGGGCTCCGACTTTCCTTGGCTACTCCATGCAGGGACTCTGCAAGTTTGGCTTTTAT  
GAAGTCTTTAAAGTCTTGTATAGCAATATGCTTGGAGAGGAGAATACTTATCTCTGGCGCACATCACTAT  
ATTTGGCTGCCTCTGCCAGTGTGAATCTTTGCTGACATTGCCCTGGCTCCTATGGAAGCTGCTAAGGT  
TCGAATTCAAACCCAGCCAGGTTATGCCAACACTTTGAGGGATGCAGCTCCCAAAATGTATAAGGAAGAA  
GGCCTAAAAGCATTCTACAAGGGGTTGCTCCTCTCTGGATGAGACAGATACCATACCCATGATGAAGT  
TCGCCTGCTTTGAACGACTGTTGAAGCACTGTACAAGTTTGTGGTTCCTAAGCCCCGAGTGAATGTT  
AAAGCCAGAGCAGCTGGTTGTAACATTTGTAGCAGGTTACATAGCTGGAGTCTTTTGTCAATTGTTTCT  
CACCTGCTGATTCTGTGGTATCTGTGTTGAATAAAGAAAAAGGTAGCAGTCTTCTCTGGTCTCAAGA  
GACTTGGATTTAAAGGTGTATGGAAGGGACTGTTTGGCCGTATCATCATGATTGGTACCCTGACTGCACT  
ACAGTGGTTTATCTATGACTCCGTGAAGTCTACTTCAGACTTCTCGCCCTCTCCACCCGAGATGCCA  
GAGTCTCTGAAGAAGAAGCTTGGTTAACTCAG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202942 representing NM\_002635  
 Red=Cloning site Green=Tags(s)

MFSSVAHLARANPFNTPHLQLVHDGLGDLRSSSPGPTGQPRRPRNLAAA AVEEYSCEFSGSAKYALCGFG  
 GVLSCGLTHTAVVPLDLVKCRMQVDPQKYKGFNGFSVTLKEDGVRGLAKGWAPTFLGYSMQGLCKFGFY  
 EVFKVLYSNMLGEENTYLWRTSLYLAASASAEFFADIALAPMEAAKVRIQTQPGYANTLRDAAPKMYKEE  
 GLKAFYKGVAPLWMRQIPYTMKFACFERTVEALYKFVVPKPRSECSKPEQLVVTFFVAGYIAGVFCIAIVS  
 HPADSVSVL NKEKGSSASLV LKRLGFKGVWKG L FARIIMIGTLTALQWF IYDSVKVYFRLPRPPPPEMP  
 ESLKKKLGLTQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002635

**ORF Size:** 1083 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\\_002635.4](#)

**RefSeq Size:** 1685 bp

**RefSeq ORF:** 1086 bp

**Locus ID:** 5250

**UniProt ID:** [Q00325](#)

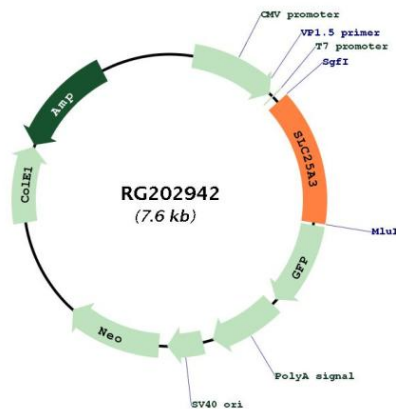
**Cytogenetics:** 12q23.1

**Domains:** mito\_carr

**Protein Families:** Transmembrane

**Gene Summary:** The protein encoded by this gene catalyzes the transport of phosphate into the mitochondrial matrix, either by proton cotransport or in exchange for hydroxyl ions. The protein contains three related segments arranged in tandem which are related to those found in other characterized members of the mitochondrial carrier family. Both the N-terminal and C-terminal regions of this protein protrude toward the cytosol. Multiple alternatively spliced transcript variants have been isolated. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG202942