

Product datasheet for **RG201717**

SLC25A3 (NM_213611) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC25A3 (NM_213611) 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: >RG201717 representing NM_213611
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTCTCGTCCGTGGCGCACCTGGCGGGCGAACCCCTTCAACACGCCACATCTGCAGCTGGTGCACG
 ATGGTCTCGGGACCTCCGCAGCAGCTCCCAGGGCCACGGGCCAGCCCGCCGCTCGCAACCTGGC
 AGCCGCCCGGTGGAAGAGTACAGTTGTGAATTTGGCTCCGCGAAGTATTATGCACTGTGTGGCTTTGGT
 GGGTCTTAAGTTGTGGTCTGACACACTGCTGTGGTCCCTGGATTTAGTGAATGCCGATGCAGG
 TGGACCCCAAAAGTACAAGGCATATTTAACGGATTCTCAGTTACACTTAAAGAGGATGGTGTTCGTGG
 TTTGGCTAAAGGATGGGCTCCGACTTTCCTTGGCTACTCCATGCAGGGACTCTGCAAGTTTGGCTTTTAT
 GAAGTCTTTAAAGTCTTGTATAGCAATATGCTTGGAGAGGAGAATACTTATCTCTGGCGCACATCACTAT
 ATTTGGCTGCCTCTGCCAGTGTGAATCTTTGCTGACATTGCCCTGGCTCCTATGGAAGCTGCTAAGGT
 TCGAATTCAAACCCAGCCAGGTTATGCCAACACTTTGAGGGATGCAGCTCCCAAAATGTATAAGGAAGAA
 GGCCTAAAAGCATTCTACAAGGGGTTGCTCCTCTCTGGATGAGACAGATACCATACCCATGATGAAGT
 TCGCCTGCTTTGAACGACTGTTGAAGCACTGTACAAGTTTGTGGTTCCTAAGCCCCGAGTGAATGTT
 AAAGCCAGAGCAGCTGGTTGTAACATTTGTAGCAGGTTACATAGCTGGAGTCTTTTGTCAATTGTTTCT
 CACCTGCTGATTCTGTGGTATCTGTGTTGAATAAAGAAAAAGGTAGCAGTCTTCTCTGGTCTCAAGA
 GACTTGGATTTAAAGGTGTATGGAAGGGACTGTTGCCCCGATCATCATGATTGGTACCCTGACTGCACT
 ACAGTGGTTTATCTATGACTCCGTGAAGTCTACTTCAGACTTCTCGCCCTCTCCACCCGAGATGCCA
 GAGTCTCTGAAGAAGAAGCTTGGTTAACTCAG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201717 representing NM_213611
 Red=Cloning site Green=Tags(s)

MFSSVAHLARANPFNTPHLQLVHDGLGDLRSSSPGPTGQPRRPRNLAAAAVEEYSCEFSGSAKYALCGFG
 GVLSCGLTHTAVVPLDLVKCRMQVDPQKYKGFNGFSVTLKEDGVRGLAKGWAPTFLGYSMQGLCKFGFY
 EVFKVLYSNMLGEENTYLWRTSLYLAASASAEFFADIALAPMEAAKVRIQTQPGYANTLRDAAPKMYKEE
 GLKAFYKGVAPLWMRQIPYTMKFACFERTVEALYKFFVVPKPRSECSKPEQLVVTFVAGYIAGVFCIAIVS
 HPADSVSVLNLKEKGSSASLVLRKLGFKGVWKGFLFARIIMIGTLTALQWFIYDSVKVYFRLPRPPPEMP
 ESLKKKLGLTQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_213611

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_213611.3](#)

RefSeq Size: 1919 bp

RefSeq ORF: 1086 bp

Locus ID: 5250

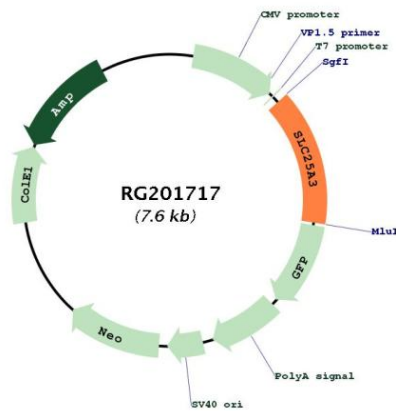
UniProt ID: [Q00325](#)

Cytogenetics: 12q23.1

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 RG201717