

Product datasheet for **RG201905**

SLC25A38 (NM_017875) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC25A38
Synonyms:	SIDBA2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG201905 representing NM_017875
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTCAGAACTCACGTCCGTCGCTGCTGCAACCCCAAGATGTCGGAGACACGGTGGAAACGCTTATGT
TACATCCGGTGATCAAGGCTTTCCTGTGTGGCTCCATCAGTGGGACCTGCTCTACCCTCCTTTTCCAACC
TCTGGATCTCCTTAAACACGCCTACAAACCTCCAGCCCTCAGATCATGGGTCTAGACGTGTTGGGATG
TTGGCTGTACTCTTGAAGGTGGTTCGCACGGAGAGTCTTTTGGCCTTTGGAAGGGATGTCCCTTCCA
TTGTGAGATGTGTCCCTGGCGTTGGAATCTACTTTGGCACTCTCTACTCTTTGAAGCAGTATTTCTTGCG
AGGCCATCCCCCAACCGCCCTGGAGTCAGTCATGCTGGGGTGGGCTCTCGCTCTGTTGCAGGGGTCTGT
ATGTCACCTATCACTGTAATCAAGACGCGCTATGAGAGTGGGAAATATGGCTATGAGAGTATCTACGCTG
CCCTGAGGAGCATCTATCAGTGAGGGGACCGGGCCTCTTCAGTGGCCTGACAGCAACTCTCCTTCG
AGATGCGCCCTTCTCAGGAATCTACCTGATGTTTTACAACCAGACCAAAATATAGTGCCTCATGACCAG
GTGGATGCAACCTTATTCTATTACAAATTTAGCTGTGGGATATTTGCTGGTATTCTGGCCTCACTGG
TAACTCAACCTGCGGATGTTATCAAACTCATATGCAGCTTTATCCACTGAAGTTTCAATGGATTGGCCA
AGCAGTGACACTTATTTTCAAAGACTATGGACTACGTGGCTTCTTCCAAGGTGGCATCCCCGAGCCCTC
CGCAGAATCTAATGGCAGCAATGGCGTGGACGGTGTATGAAGAGATGATGGCCAAGATGGCCTGAAGT
CC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG201905 representing NM_017875
 Red=Cloning site Green=Tags(s)

MIQNSRPSLLQPQDVGDVTETLMLHPVIKAFLCGSGISGTCSTLLFQPLDLLKTRLQTLQPSDHGSRVGM
 LAVLLKVVRTESLLGLWKGMSPSIVRCVPGVGIYFGTLYSLKQYFLRGHPPTALESVMLGVGSRSVAGVC
 MSPITVIKTRYESGKYGYESIYAALRSIYHSEGHRLFSGLTATLLRDAPFSGIYLMFYNQTKNIVPHDQ
 VDATLIPITNFSCGIFAGILASLVTPADVIKTHMQLYPLKFQWIGQAVTLIFKDYGLRGFFQGGIPRAL
 RRTLMAAMAWTVYEEMMAKMLKS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017875

ORF Size: 912 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_017875.1](#), [NP_060345.1](#)

RefSeq Size: 2016 bp

RefSeq ORF: 915 bp

Locus ID: 54977

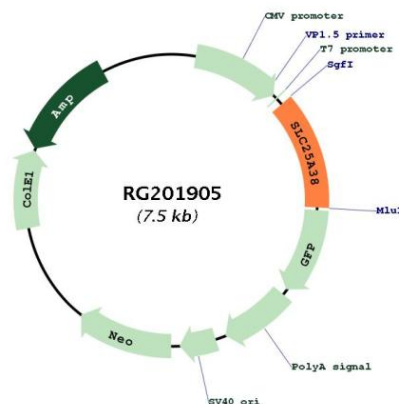
UniProt ID: [Q96DW6](#)

Cytogenetics: 3p22.1

Domains: mito_carr

Gene Summary: This gene is a member of the mitochondrial carrier family. The encoded protein is required during erythropoiesis and is important for the biosynthesis of heme. Mutations in this gene are the cause of autosomal congenital sideroblastic anemia (anemia, sideroblastic, 2, pyridoxine-refractory). A related pseudogene is found on chromosome 1. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG201905