

Product datasheet for **RG201408**

SFXN2 (NM_178858) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SFXN2 (NM_178858) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SFXN2
Synonyms:	SLC56A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201408 representing NM_178858 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCTGACCTGTCTGGCTTAAACATCGATGCCCCCGTTGGGACCAGCGCACCTTCCTGGGGAGAG
TGAAGCACTTCTAAACATCACGGACCCCGCACTGTCTTTGTATCTGAGCGGGAGCTGGACTGGGCCAA
GGTGATGGTGGAGAAGAGCAGGATGGGGTTGTGCCCCAGGCACCAAGTGGAGCAGCTGCTGTATGCC
AAGAAGCTGTATGACTCGGCCTCCACCCGACACTGGGAGAAGATGAATGTCATCGGGCGCATGTCTT
TCCAGCTTCTGGCGGCATGATCATCACGGCTTCATGCTCCAGTCTACAGGACGATGCCGGCGGTGAT
CTTCTGGCAGTGGGTGAACCAAGTCTTCAATGCCTTAGTCAACTACACCAACAGGAATGCCGCTTCCCC
ACATCAGTCAGGCAGATGGCCCTTTCCTACTTCACAGCCACAACCACTGCTGTGGCCACGGCTGTGGGCA
TGAACATGTTGACAAAGAAAGCGCCGCCCTTGGTGGGCGCTGGGTGCCCTTTGCCGCTGTGGTGGCGC
TAACTGTGTCAATATCCCATGATGCGACAGCAGGAGCTCATAAAGGGAATCTGCGTGAAGGACAGGAAT
GAAAATGAGATTGGTCATTCCCGGAGAGCTGCGGCCATAGGCATCACCAAGTAGTTATTTCTCGGATCA
CCATGTCAGCTCCTGGGATGATCTTGCTGCCAGTCATCATGGAAGGCTTGAGAAATTGCACTTCATGCA
GAAAGTCAAGTCTGCACGCCCCATTGCAGGTCATGCTGAGCGGGTCTTCTCATCTTCATGGTGCCA
GTGGCGTGTGGCTTTTCCACAGAAATGTGAATTGCCAGTTTCCATCTGGAACCGAAGCTCCAAGACA
CTATCAAGGCCAAGTATGGAGAAGTTCAGCCTTATGCTACTTCAATAAGGGTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG201408 representing NM_178858
 Red=Cloning site Green=Tags(s)

MEADLSGFNIDAPRWDQRTFLGRVKHFLNITDPRTVFVSERELWAKVMVEKSRMGVPPGTQVEQLLYA
 KKL YDSAFHPDTGEKMNVI GRMSFQLPGGMIITGFMLQFYRTMPAVIFWQWVNQSFNALVNYTNRNAASP
 TSVRQMALSYFTATTTAVATAVGMNMLTKKAPPLVGRWVPFAAVAAANCVNIPMMRQELIKGICVKDRN
 ENEIGHSRRAAAIGITQVVISRITMSAPGMILLPVIMERLEKLHFMQKVKVLHAPLQVMLSGCFLIFMVP
 VACGLFPQKCELPVSYLEPKLQDTIKAKYGELEPYVYFNKGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178858

ORF Size: 966 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_178858.6](#)

RefSeq Size: 2599 bp

RefSeq ORF: 969 bp

Locus ID: 118980

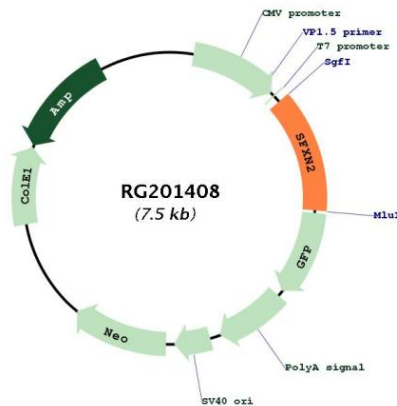
UniProt ID: [Q96NB2](#)

Cytogenetics: 10q24.32

Protein Families: Transmembrane

Gene Summary: Mitochondrial amino-acid transporter that mediates transport of serine into mitochondria. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201408