

## Product datasheet for **RG209097**

### SFXN4 (NM\_213649) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SFXN4 (NM_213649) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SFXN4
Synonyms:	BCRM1; COXPD18; SLC56A4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209097 representing NM_213649 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCCTGGAACAGGAGGAGGAAACGCAACCTGGGCGGCTCCTAGGACGCAGAGACGCCGTCCCCGCT  
TCATTGAGCCCAACGTGCGCTTCTGGATCACCGAGCGCCAATCCTTTATTCGACGATTTCTCAATGGAC  
AGAATTATTAGATCCTACAAATGTGTTTTCAGTTGAAAGTATAGAAAACGAGGCAACTATTGTGC  
ACAAATGAAGATGTTCCAGCCCTGCCTCGGCGACCAAAGGATACAAGAAGCTTGAAGCGGAGTCTTG  
CAACAGTGCATCCCGACAGCAGCAACCTGATCCCCAAGCTTTTTCGACCTGCAGCGTTCTGCCTTTCAT  
GGCGCCACGGTATTTTTGTCAATGACGCCACTGAAAGGGATCAAGTCCGTGATTTTACCTCAGTTTTTC  
CTCTGTGCCTACATGGCAGCGTTCAACAGCATCAATGAAAACAGAAGTTACACTTGTAAAGCCACTAGAAA  
GATCATTACTAATGGCGGGAGCCGTTGCTTCTCAACTTTCTTAGGAGTAATCCCTCAGTTTGTCCAGAT  
GAAGTATGGCCTGACTGGCCCTTGGATTAAGACTCTTACCTGTGATCTTCTCGTGCAAGCCAGTGGAA  
ATGAATGTCTACATGTCCGAAGTCTTGAATCCATTAAGGGGATTGCGGTATGGACAAGGAAGGCAATG  
TCCTGGGTCAATCCAGAATTGCTGGGACAAAGGCTGTTAGAGAAACGCTAGCATCCAGAATAGTGCTGTT  
TGGGACCTCAGCTCTGATTCCTGAAGTCTCACCTACTTTTTAAAAGGACCCAGTATTTTCAGAAAAAC  
CCAGGGTCATTGTGGATTTTGAAGTGTCTGTACTGCTGCAATGGGACTGATGGTCCATTTTCTT  
TTAGTATATTTCCACAGATTGGACAGATACAGTACTGTAGTCTTGAAGAGAAAATTCAGTCTCCAACAGA  
AGAAACAGAAATCTTTTATCACAGAGGGGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209097 representing NM\_213649  
 Red=Cloning site Green=Tags(s)

MSLEQEEETQPGRLLGRRDAVPAFIEPNVRFWITERQSFIRRFLQWTELLDPTNVFISVESIENSRQLLC  
 TNEDVSSPASADQRIQEAWKRSLATVHPDSSNLIPKLFRAAFLPFMAPTVFLSMTPLKGIKSVILPQVF  
 LCAYMAAFNSINGNRSYTCKPLERSLLMAGAVASSTFLGVIPQFVQMKYGLTGPWIKRLLPVIFLVQASG  
 MNVYMSRSLSESIKGIIVMDKEGNVLGHSRIAGTKAVRETLASRIVLFGTSALIFEVFTYFFKRTQYFRKN  
 PGSLWILKLSCTVLMGLMVPFVSIFPQIQYCSLEEKIQSPTEETEIFYHRGV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_213649

**ORF Size:** 1011 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\\_213649.1](#), [NP\\_998814.1](#)

**RefSeq Size:** 1400 bp

**RefSeq ORF:** 1014 bp

**Locus ID:** 119559

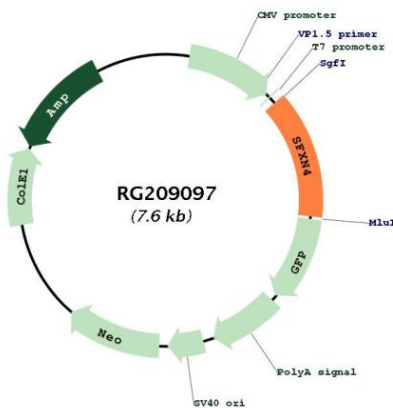
**UniProt ID:** [Q6P4A7](#)

**Cytogenetics:** 10q26.11

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a member of the sideroflexin family. The encoded protein is a transmembrane protein of the inner mitochondrial membrane, and is required for mitochondrial respiratory homeostasis and erythropoiesis. Mutations in this gene are associated with mitochondriopathy and macrocytic anemia. Alternatively spliced transcript variants have been found in this gene. [provided by RefSeq, Jan 2014]

### Product images:



Circular map for RG209097