

Product datasheet for MR218810

Sfxn2 (NM_053196) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sfxn2 (NM_053196) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sfxn2
Synonyms: C79732; F630107H02Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218810 representing NM_053196
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGGGGATCTGCTGGCTTAATATTGATGCTCCCCGCTGGGACCAGTGCACCTTCTGGGGCGG
 TGAAGCACTTTTTAACATCACAGATCCTCGCACGGTCTTTGCATCAGAGCAGGAGCTGGACTGGCCAA
 GGCGGTGGTGGAGAAGAGCAGGATGGGACTTGTGCCCCCTGGCACTCAGATGGAGCAGCTGCTGTATGCG
 AAGAAGCTCTACGACTCGGCCTCCACCCTGACACTGGGAGAAGATGAATGTCATTGGCGGATGTCCT
 TCCAGGTCCTGGTGGCATGCTCATCACGGCTTCATGCTCCAGTCTACAGGACAATGCCTGCAGTCAT
 TTTCTGGCAGTGGGTGAACCACTTTAATGCCTTGGTCAACTACACCAACAGGAATGCAGCTTCCCC
 ACGTCTGTGAGGAGATGGCCCTCTCCTACTTACAGCTACTACTGCGGTGGCCACTGCAGTGGGCA
 TGAACATGTGGACAAAGAGAGCCCCACCCTTGGTGGGCCGATGGGTGCCTTTTGCCGCTGTGGCTGCCG
 TAACTGTGTCAATATCCAATGATGCGACAGCAGGAACCTATTAGGGCATCTGTGTGAAGGACAGGAAC
 CAAAATGAGCTTGGCCATTCTCAGAGAGCTGCGGCTGTGGGCATCGCACAAAGTGGTTATCTCTCGGATCA
 CCATGGCAGCCCCTGGCATGATCCTGTTGCCTGTATCATGGAGAGGCTGGAGAGACTACACCTGATGAA
 GAAGGTCAAAGTATGCACGCCCCCTGCAGGTCTTGTGTGGCTGCTTCTCCTCTTTATGGTGCCA
 GTGGCGTGGGACTCTTCCCTCAGGAATGTGAATTATCAGTTTCTATCTAGAGCCAGAGCTACGGGACA
 CCATCAAGGCCAAGTATGGAGAACAAGTCTCTTTGTCTACTTTAATAAGGGTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218810 representing NM_053196
Red=Cloning site Green=Tags(s)

MEGDLSGFNIDAPRWDQCTFLGRVKHFFNITDPRTVFASEQELDWAKAVVEKSRMGLVPPGTQMEQLLYA
 KKL YDSAFHPDTGEKMNVIGRMSFQVPGMLITGFMLQFYRTMPAVIFWQVWNQSFNALVNYTNRNAASP
 TSVRQMALSYFTATTTAVATAVGMNMWTKRAPPLVGRWVPFAAVAAANCNVIPMMRQELIQGICVKDRN
 QNELGHSQRAAAVGIAQVVISRITMAAPGMILLPVIMERLERLHLMKKVKVMHAPLQVLLCGCFLLFMVP
 VACGLFPQECELSVSYLEPELRDTIKAKYGEQVLFVYFNKGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9021_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053196

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_053196.3](#), [NP_444426.3](#)

RefSeq Size: 3228 bp

RefSeq ORF: 969 bp

Locus ID: 94279

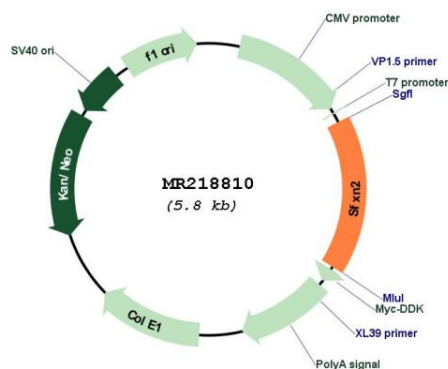
UniProt ID: [Q925N2](#)

Cytogenetics: 19 C3

MW: 36.6 kDa

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

Product images:



Circular map for MR218810