

Product datasheet for **MG218810**

Sfxn2 (NM_053196) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sfxn2 (NM_053196) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sfxn2
Synonyms:	C79732; F630107H02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218810 representing NM_053196 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCGGATCTGTCTGGCTTAAATATTGATGCTCCCCGCTGGGACCAGTGCACCTTCTCTGGGGCGG
TGAAGCACTTTTTAACATCACAGATCCTCGCACGGTCTTTGCATCAGAGCAGGAGCTGGACTGGGCCAA
GGCGGTGGTGGAGAAGAGCAGGATGGGACTTGTGCCCCCTGGCACTCAGATGGAGCAGCTGCTGTATGCG
AAGAAGCTCTACGACTCGGCCTCCACCCTGACACTGGGAGAAGATGAATGTCATTGGCGGATGTCCT
TCCAGGTCCTGGTGGCATGCTCATCACGGCTTCATGCTCCAGTCTACAGGACAATGCCTGCAGTCAT
TTTCTGGCAGTGGGTGAACCACTTTAATGCCTTGGTCAACTACACCAACAGGAATGCAGCTTCCCC
ACGTCTGTGAGCAGATGGCCCTCTCCTACTTCACAGCTACTACTGCGGTGGCCACTGCAGTGGGCA
TGAACATGTGGACAAAGAGAGCCCCACCCTTGGTGGGCCGATGGGTGCCTTTTGCCGCTGTGGCTGCCG
TAACTGTGTCAATATCCAATGATGCGACAGCAGGAACCTATTAGGGCATCTGTGTGAAGGACAGGAAC
CAAAATGAGCTTGGCCATTCTCAGAGAGCTGCGGCTGTGGGCATCGCACAAAGTGGTTATCTCTCGGATCA
CCATGGCAGCCCCTGGCATGATCCTGTTGCCTGTATCATGAGAGGCTGGAGAGACTACACCTGATGAA
GAAGGTCAAAGTATGCACGCCCCCTGCAGGTCTTGTGTGGCTGCTTCTCTCTTTATGGTGCCA
GTGGCGTGGGACTCTTCCCTCAGGAATGTGAATTATCAGTTTCCTATCTAGAGCCAGACTACGGGACA
CCATCAAGGCCAAGTATGGAGAACAAGTCTCTTTGTCTACTTTAATAAGGGTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218810 representing NM_053196
 Red=Cloning site Green=Tags(s)

MEADLSGFNIDAPRWDQCTFLGRVKHFFNITDPRTVFASEQELDWAKAVVEKSRMGLVPPGTQMEQLLYA
 KKLYDSAFHPDTGEKMNVIGRMSFQVPGMLITGFMLQFYRTMPAVIFWQWVNQSFNALVNYTNRNAASP
 TSVRQMALSYFTATTTAVATAVGMNMWTKRAPPLVGRWVPFAAVAAANCVNIPMMRQELIQGICVKDRN
 QNELGHSQRAAAVGIAQVVISRITMAAPGMILLPVIMERLERLHLMKKVKVMHAPLQVLLCGCFLLFMVP
 VACGLFPQECELSVSYLEPELRDTIKAKYGEQVLFVYFNKGL

TRTRPLE - GFP Tag - V

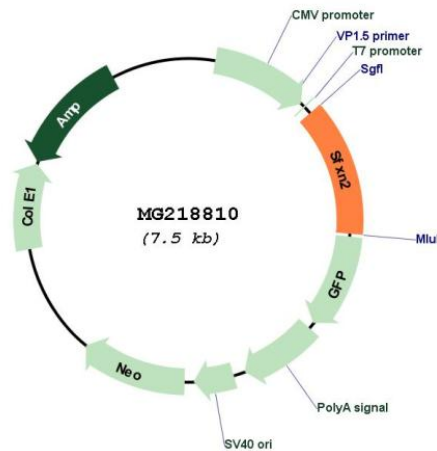
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<ol style="list-style-type: none">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_053196.2
RefSeq Size:	3228 bp
RefSeq ORF:	969 bp
Locus ID:	94279
UniProt ID:	Q925N2
Cytogenetics:	19 C3
Gene Summary:	Mitochondrial amino-acid transporter that mediates transport of serine into mitochondria. [UniProtKB/Swiss-Prot Function]