

Product datasheet for **MR219001**

Sfxn5 (NM_178639) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Sfxn5
Synonyms:	C230001H08Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR219001 representing NM_178639
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGATACAGCAACCACAGCCTCAGCGGCGTCCGCGGCGGCCAGTGCCCCGAACGCCTCCACAGATG
CGCCCCCTTTCCAGCTGGGCAAGCCCCGCTTCCAGCAGACATCCTTCTACGGTCGCTTCAGGCACTTCTT
GGACATCATCGATCCTCGAACACTCTTTGTCACTGAGAAACGCTCTCAGAGAGGCTGTCAACTGCTGGAG
GATTACAAGCATGGCACCCTGCGCCAGGAGTTACAAATGAACAGCTCTGGAGTGCACAGAAAATCAAAC
AGGCTATCCTACACCCGGACACCAACGAGAAGATCTTCATGCCTTTCAGAATGTCAGGTTACATTCTTTT
CGGGACGCCAATTGTGGTGGGACTTCTCTTGCCTAACCCAGACGCTGGCATCCACTGTCTTCTGGCAGTGG
CTGAACCAGAGCCATAATGCCTGTGTCAACTATGCAACCGCAATGCTACCAAGCCTTCACCTGCATCCA
AGTTTCATCCAGGGCTACCTGGGCGCTGTCACTAGTGTGTTTCCATTGCTGTGGCCTTAATGTGCTGGT
TCAGAAAGCAAACAAGTTCACTCCAGCTACTCGCCTTCTCGTGCAGAGATTTGTACCCTTCCTGCAGTA
GCCAGTGCCAAATCTGCAACGTGGTCTGATGCGATATGGGAGTTAGAGGAAGGAATTGATGTCTGG
ATGCTGATGGCAACCTCGTGGGCTCCTCAAAGATTGCAGCCAGACACGCCCTGCTGGAGACAGCTCTGAC
ACGTGTGGTTCTGCCTATGCCATTCTGGTGTCTCCTCCAATCGTCATGTCCATGCTGGAGAAGACAGCT
CTCTTGCAAGCACGCCCCGGGCTACTCCTACCTGTGCATAGCCTCGTGTGCCTGGCAGCCTTCGGCCTGG
CCCTGCCGCTGGCCATCAGCCTTTTCCCGCAGATGTCAGAGATTGAAACCTCCCAATTGGAGCCTGAGAT
AGCCCCGGGCTACCAGCAGCCGGACAGTGGTGTACAATAAGGGGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

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>MR219001 representing NM_178639
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Red=Cloning site Green=Tags(s)

MADTATTASAASAAASAPNASTDAPPFQLGKPRFQQTsfYGRFHFLDIIDPRTLfVIEKRLREAVQLLE
 DYKHGTLRPGVTNEQLWSAQKIKQAILHPDNEKIFMPFMRSGYIPFGTPIVVGLLLPNQTLASTVFQWQ
 LNQSHNACVNYANRNATKPSPA5KFIQYGLGAVISAVSIAVGLNLVQKANVLPATRLLVQRFVPFPAV
 ASANICNVLLMRYGLEEGIDLDADGNL VGSSKIAARHALLTALTRVVKMPLILVLPPIVMSMLEKTA
 LLOARPRILLPVRHSLVCLAAFGDLALPLAISLFPMOSEIETSOLEPIARATSSRTVVYNKGL

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms:

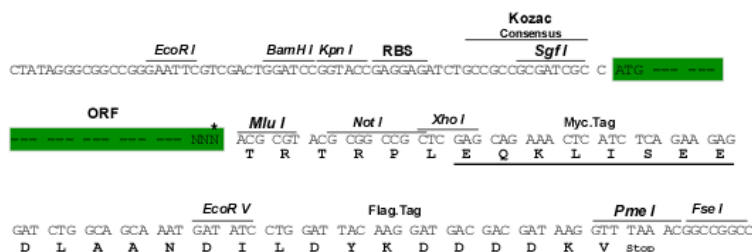
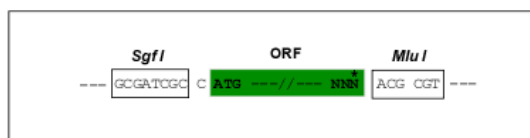
https://cdn.origene.com/chromatograms/mm9020_b09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

NM_178639

ORF Size:

1026 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_178639.4](#), [NP_848754.1](#)

RefSeq Size: 3654 bp

RefSeq ORF: 1029 bp

Locus ID: 94282

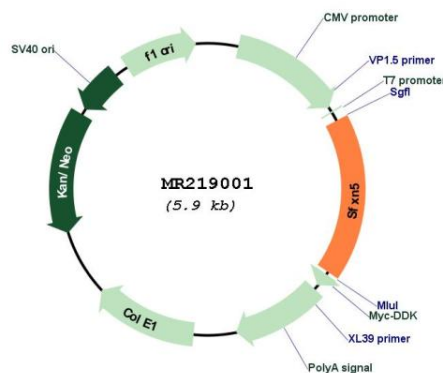
UniProt ID: [Q925N0](#)

Cytogenetics: 6 37.23 cM

MW: 37.8 kDa

Gene Summary: Mitochondrial amino-acid transporter (By similarity). Does not act as a serine transporter: not able to mediate transport of serine into mitochondria (By similarity). Transports citrate (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219001