

Product datasheet for **MC200419**

Sfxn1 (NM_027324) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sfxn1 (NM_027324) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sfxn1
Synonyms: 2810002O05Rik; A930015P12Rik; f
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC005743 sequence for NM_027324
GGCGCCGAACGGGACCGAGCGCGGGTGGCGCCGGTAGCGGATCTGGGACGATGTCTGGGGAAGT
GCCACCCAACATTAACATCAAGGAGCCTCGATGGGACCAGAGCAGTTTCATTGGCCGAGCCAGTCACTTC
TTCACGGTTACTGATCCCAGAAATATCCTTTTAAACGAACGAACAGCTAGAGAATGCGAGGAAAGTGGTGC
ATGACTACAGGCAAGGAATCGTTCCTGCGGCCTCACGGAATGAGCTATGGAGAGCGAAGTACGCGTA
CGACTCGGCTTCCATCCTGACACCGGTGAAAAGATGACTCTGATAGGAAGAATGTCAGCTCAGTCCC
ATGAACATGACCATCACAGGCTGCATGATGACCTTCTACCGACCACACCGGCTGTGCTTTCTGGCAGT
GGATAAACAGTCCTTCAATGCCGTGGTCAACTACACCAACAGAAGCGGTGACGCTCCCCTCACTGTGAA
TGAGCTGGGAACGGCTTATGTTTCTGCAACCACTGGCGCTGTGGCAACGGCCCTAGGACTCAATGCCTTA
ACCAAGCGTGTCTCCCCTGATAGGACGTTTTGTTCCCTTCGCTGCTGTAGCTGCTAACTGCATTA
ACATCCCCTGATGAGACAAAGGAGCTGAAGGTTGGTATTCCTGTCAGTATGAAAATGGCACTCGCTT
GGGAGAATCGACCAACGCAGCAAAGCAAGCCATCACGCAGGTGGTCATCTCCAGGATCCTCATGGCAGCC
CCGGGCATGGCCATCCCTCCGTTTATCATGAACACCTTGAAAAGAAAGCCTTTTAAAGAGGTTCCCGT
GGATGAGTGCGCCAATCCAAGTCACGTTGGTTGGCTTTTGGTATTCCGCCACCCCTGTGCTGTGC
TCTGTTTCTCAGAAGAGTTCCATGTCTGTGACAAGCTTGAGGATGAGTTGCAAGCCAGCATCAAAGG
ACTCATCTGAAATACGGCGTGTGACTTTAACAAGGGCCTGTGAAGCCAAGATCAAGTGTGGAGGCCG
GAGCCATCTGTGAGCCTCCCTAAGCCACAGCAGTGAGGAGATTTGTGTCTGGGGCACTCAAAGCCTCT
ACAAGATCTTCGTTAAGAGTCAAGCTGCCGGTCAGGAGTCTGACATTTGAATCGTGTGATTTACAAA AAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_027324
Insert Size: 969 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>BC005743</u> , <u>AAH05743</u>
RefSeq Size:	1204 bp
RefSeq ORF:	969 bp
Locus ID:	14057
UniProt ID:	<u>Q99JR1</u>
Cytogenetics:	13 28.4 cM
Gene Summary:	Mitochondrial serine transporter that mediates transport of serine into mitochondria, an important step of the one-carbon metabolism pathway (By similarity). Mitochondrial serine is converted to glycine and formate, which then exits to the cytosol where it is used to generate the charged folates that serve as one-carbon donors (By similarity). Transports both D-serine and L-serine (By similarity). Also able to transport other amino-acids, such as alanine (By similarity). May be indirectly involved in the transport of a component required for iron utilization into or out of the mitochondria (PubMed:11274051).[UniProtKB/Swiss-Prot Function]