

Product datasheet for **MC203802**

Sfxn3 (NM_053197) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Sfxn3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>BC012208
 GTCTCAACGGCCTGGTCTGGGAGAATCACTCTGGACATCCACTGTCTCGAACTCTGCCAAGAGGGGGG
 TGGGTCAAGCGAACGAGCTCAGGGAGCCCCGCCCTTCCCTGCTGCTCAGCGTCACGCGTGACGTCTCGG
 TGATGGCTGGGAGGAAAGCGGAGAGCGGTGAGGAAGGCGGGTCTGAGAGCTTCTAGAGGCTGAAAACCCC
 GGAAAGCAAGATGGGTGACCTGCCCTTAAATATCAACATCCAGGAACCTCGGTGGGACCAAGACATTT
 CTAGGCAGAGCCCGCATTTCTTACAGTCACTGATCCCCGAAATCTGCTGCTGCCGGGAACAGCTGG
 AAGCTTCCCGGAACATCGTGCAGAATTACAGGGCTGGTGTGGCAACCCCGGTCTCACTGAGGACCAGCT
 ATGGCGAGCCAAATACGTGTATGACTCAGCATTCATCCGGACACGGGGGAGAAGGTGGTCTTGATTGGC
 CGTATGTACAGCCAGGTGCCATGAACATGACCATTACTGGCTGCATGCTCACCTTCTACAGGAAGACTC
 CGACTGTGGTGTCTGGCAGTGGGTCAATCAGTCTTCAATGCTATTGTGAATTACTCTAATCGCAGCGG
 CGATGCTCCCATCACTGTGCAGCAGTTGGGACAGCCTATGTGAGTGCCACCCTGGGGCTGTGGCTACT
 GCTCTGGGACTCAAGTCTCTACCAAGCACCTGCCCGCGTAGTCGGTGCATTCTGCGCTTTGCAAGCTG
 TGGCCGCTGCCAATGCATCAACATCCCCCTGATGAGGCAGAGGGAGCTGCAGGTGGGCATCCCACTGAC
 TGATGAGGCTGGTCAGAGGCTTGGCCACTCGGTGACTGCTGCCAAGAGGAATCTTCCAGGTGGTGATA
 TCAAGAATCGGAATGGCGATTCCCGCATGGCCATTCCCCCGGTGATCATGAACACTCTGGAGAAGAAAG
 ACTTCTGAAAGCGCCGTCCCTGGCTGGGGCGCCCTGCAGGTGGGACTGGTAGGCTTCTGCTTGGTATT
 TGCCACACCCCTGTGCTGCGCTCTGTTCCCTCAGAGAAGCTCCATACATGTGACCAGGCTGGAGCCGGAG
 CTGAGAGCTCAGATCAAGCACAAACCCAGCATCGATGTGGTTTACTACAACAGGGGCTTTGAGGGG
 AGTGGCCCTCTGCTCTGTCTTACCTCCTTAGGCTGCTTCTCTGATGCCACCTTGCAATGCTACCACCT
 GTTTATCTTCTGGTACTGGGCAAGGGGGCTTGATGTGGGAGCAGCCACTGAGACCAGCAACCTTAGAC
 TGGGGGAGGCACTCCTATAAGCCTCTCCGCTCCTCTGTTTCAAAGAGCAAGTCACAAAACCCATCCC
 TCCTGTGTTGTGTGTGCACTGCCACATATGCAGCACATGTGTTTATACATTTATCCTGGAAGCTAA
 GAGCAGAAATGCTGTTCTAGGATGCTCTGCTATTGTCTTCTTCTCAGTCTCTGCCACCTAACAGC
 AAGCCTGGTTATGGGTGAGACTTCCTTCCCTAACTGTTCTCTAGCTAAGTCATTTCTGATAGCATCTT
 AGCCTTCTGTGCCAAGATAAGCCCCAGGATCCAGAACAGGACTGAAGAATCGTAGGCCACCCAGA
 GCTTAACCCCTTCAAGTTCAAATACAGCTATTTGAACAGCTCTAAAGCTGGTTCAGGACGTGGGCTGG
 TAGAGGAAGCAGTGTGAATCAGGGAGGAGGGGGCTCATGCTTGTGGACCCACACCTAGAAATGGCT
 CCACTCCTCTCTTCTGGTGGACCATGGGGGTGTAGTAGCCTGCACTGCTCTCCACACTGCATTGTGGGT
 GCTTTTAGAGACCATCTGAGCATTCTTCTGCTGTTCTGATGAGTCATGTCATGATTGAGAAATCCACA
 CTTCCAATTCTCCCCAATCAGAAAGCCACACAACACAGGCAGAGCAAGCATTCCTTTCAGGAAGTCC
 ACCACCCGTACCCACTTGTAGGGGCTGGTGTGGGACCGGTGCTTAAACACAGGCCTCAAGCGTACAGTAT
 CAAGACAGGTAATTCTGTGTTTCATTGACTCTTCTTAGACACACCCCCCCCCCTCAGTCTCTTCTTCC
 ATCTACCCCGTCTCTGGAAGAACCAAGGCTTCATATATGCTAAGCAACTGCTCTACCACTGAGCGCAT
 CCCCAGTGCCCTCTTCTCTTTCTTTCTTCT
 TTCTTTCTTTCTTTCTTTCTTTCTTCT
 TCTGCTGAATGTCTGTCTCTTCT
 TCAGTTATGGTTTCTCTGGGTAGCCCTGGCTGTCTGAACTCAGAGATCTGCTTGCCTATGGCAGTGAG
 TGCTGGGATTAAGGAGCATGTGCCACCATGCCAGCAGCCCGTCTTTCTTAAAGCATGGCACTGCACT
 CCCTCTGCCCTTAATTTCAAAGGAAGAGGGACCCAGGCTCTAATAGCTGGACCAATAGAAGATGAGTT
 CGGGAATGGTGTGGGTGATACTGACTCCAGGGCATAGAATTATCTCCACGCCAAATCCATGACCTCTA
 GCTAAAGGTGAATGGGGTCCCAAGTGACATCCACGGAGACCACTTAACTAACCTCCTCTTCCAGTGAC
 AACAGCTGTACGTCATGGTGTCAATAAAGTGAATCCTGTCTGGTAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:

RsrII-NotI

ACCN:

NM_053197

Insert Size:

966 bp

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:	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:	BC012208 , AAH12208
RefSeq Size:	2870 bp
RefSeq ORF:	966 bp
Locus ID:	94280
UniProt ID:	Q91V61
Cytogenetics:	19 C3
Gene Summary:	Mitochondrial serine transporter that mediates transport of serine into mitochondria, an important step of the one-carbon metabolism pathway. 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.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).