

Product datasheet for **MR204463**

Sfxn4 (NM_053198) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sfxn4 (NM_053198) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sfxn4
Synonyms:	MGC107253
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204463 representing NM_053198 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCAACCTGCAGTTCTGGATTTCCGAACGCCAAGCCTTTTTTCGAAGATTTTGTGAGTGGATGG
ATTTATTAGATCCTGTAAACATGTTTATTTCAATTGGAAGCATAGAAAAATCACGACAGTTGTTATTTAC
CACTGAAGATGCACCCAAACACTACCTGGATAACCAAGTGATTAAGACGCATGGAATAAGAGTCTTTCA
ACTGTGCACCCTGACAGCAGCAAGTTGATCCCCATCTTTTCGACCTGCAGCTTCTCTGCCTGTGACAG
CACCCATGGTATTTCTGTTGATGATGCCAGACTGGAATAAAGTCCATCATTTTAACTCAGGGTTGCTT
GTATGGATACACCACAGCCTTTAACATACCAATGGAAATGCCAGTTATAGTCATGGACCAGTAGAGAGA
ACATTGTTGGGAGCAGGGGTGTCTGTGTCTTCACTTTTCAATTGGATTAATTCTCTCATCTCTTTCAAATGA
AGTATCCCCGAATAACTTTTGGCTTAAAAGAACCTTGCCAATCGTCTTTCTTGCCCAAGTCAGTGGAAAT
GAATGTTTTTGCATCCCGCAGTTTTGAAAACATCGAGGAATTGAGGTGATGGATAAGGAAGGCCATGTC
GTAGGCCATTCCAGAAAAGCTGGAAGAAAGGCTATTAAGATACAGCGAAATCCAGAGCAGTGCTGTTTG
GGACCTCAGCCTTGCCCTGAACCTTTATCCACATCTTTAAAAGGACGAGGTTTTACCCACAGACTCT
GCTGTCACTCGTATCCTGAGAATGAGTCCACATCTTTATGATGGGACTGATGGTGCCAGTGTCAATC
AGCATGTTTCCACAGATTGGACAGATCCAGTGCAGTCAGCTTGAAGAGAAGATTCAATCTTCTACAGAAG
AAAAGGAACCTTCTATTACAGAGGGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204463 representing NM_053198
Red=Cloning site Green=Tags(s)

MEPNLQFWISERQAFRRFCQWMDLLDPVNMFISIGSIEKSRQLLFTTEDAPKHYLDNQVIKDAWNKSLSTVHPDSSKLIPLHLFRPAAFLPVTAPMVFLMMPDTGIKSIIILTQGCLYGYTTAFNITNGNASYSHGPVERTLLGAGVSVSSTFIGLIPHLFQMKYPPNFWLKRTPIVFLAQVSGMNVFASRSFENHRGIEVMDKEGHVVGHSRKAGRKAIKDTAKSRAVLFGTSALAPELFIHIFKRTRFYPQTLLSLVILRMSSTFFMMGLMVPVSF SMFPQIGQIQCSQLEEKIQSSTEEKELFYRGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9022_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053198

ORF Size: 939 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_053198.4](#)

RefSeq Size: 2731 bp

RefSeq ORF: 942 bp

Locus ID: 94281

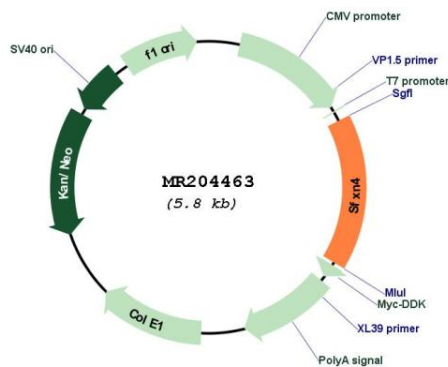
UniProt ID: [Q925N1](#)

Cytogenetics: 19 D3

MW: 36 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).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204463