

Product datasheet for **MG204463**

Sfxn4 (NM_053198) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sfxn4 (NM_053198) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sfxn4
Synonyms:	MGC107253
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204463 representing NM_053198 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCAACCTGCAGTTCTGGATTTCCGAACGCCAAGCCTTTTTTCGAAGATTTTGTGTCAGTGGATGG
ATTTATTAGATCCTGTAAACATGTTTATTTCAATTGGAAGCATAGAAAAATCACGACAGTTGTTATTTAC
CACTGAAGATGCACCCAAACACTACCTGGATAACCAAGTGATTAAGACGCATGGAATAAGAGTCTTTCA
ACTGTGCACCCTGACAGCAGCAAGTTGATCCCCATCTTTTCGACCTGCAGCTTCTCTGCCTGTGACAG
CACCCATGGTATTTCTGTTGATGATGCCAGACTGGAATAAAGTCCATCATTTTAACTCAGGGTTGCTT
GTATGGATACACCACAGCCTTAAACATACCAATGGAAATGCCAGTTATAGTCATGGACCAGTAGAGAGA
ACATTGTTGGGAGCAGGGGTGTCTGTGCTTCAACTTTTATTGGATTAATTCTCTCATCTCTTTCAAATGA
AGTATCCCCGAATAACTTTTGGCTTAAAAGAACCTTGCCAATCGTCTTTCTTGCCCAAGTCAGTGGAAAT
GAATGTTTTTGCATCCCGCAGTTTTGAAAACATCGAGGAATTGAGGTGATGGATAAGGAAGGCCATGTC
GTAGGCCATTCCAGAAAAGCTGGAAGAAAGGCTATTAAGATACAGCGAAATCCAGAGCAGTGCTGTTTG
GGACCTCAGCCTTGCCCTGAACCTTTATCCACATCTTTAAAAGGACGAGGTTTTACCCACAGACTCT
GCTGTCACTCGTGATCCTGAGAATGAGTCCACATCTTTATGATGGGACTGATGGTGCCAGTGTCAATC
AGCATGTTTCCACAGATTGGACAGATCCAGTGCAGTCAGCTTGAAGAGAAGATTCAATCTTCTACAGAAG
AAAAGGAACCTTCTATTACAGAGGGGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204463 representing NM_053198
Red=Cloning site Green=Tags(s)

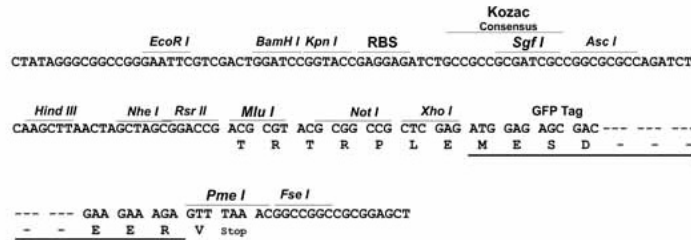
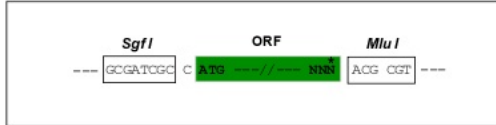
MEPNLQFWISERQAFRRFCQWMDLLDPVNMFISIGSIEKSRQLLFTTEDAPKHYLDNQVIKDAWNKSLSTVHPDSSKLIPLHLFRPAAFLPVTAPMVFLLMMPDTGIKSIILTQGCYGYTTAFNITNGNASYSHGPVERTLLGAGVSVSSTF IGLIPHLFQMKYPPNFWLKRTPIVFLAQVSGMNVFASRSFENHRGIEVMDKEGHVVGHSRKAGRKAIKDTAKSRAVLFGTSALAPELFIHIFKRTRFYPQTLLSLVILRMSSTFFMMGLMVPVSFSMPFQIQIQCSQLEEKIQSSTEEKELFYRQV

TRTRPLE - GFP Tag - V

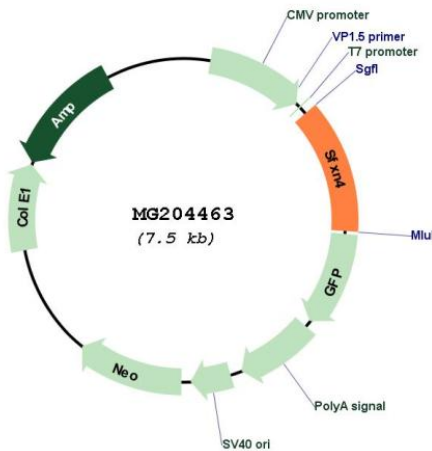
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<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_053198.4
RefSeq Size:	2731 bp
RefSeq ORF:	942 bp
Locus ID:	94281
UniProt ID:	Q925N1
Cytogenetics:	19 D3
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]