

## Product datasheet for MC208509

### Fxn (NM\_008044) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fxn (NM_008044) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fxn
Synonyms:	FA; FARR; Frda; X25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208509 representing NM_008044 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGCGTTTCGGAGGTCGCGCAGCCGTGGGCTTGTGCCCCGGACGGCGTCCCGGCCTCCGCCTGGG  
TCGGGAACCCGCGCTGGAGGGAACCGATCGTAACCTGCGGCCCGGAGGCTACATGTCACAGTCAACGC  
CGGCGCCACCCGCCACGCCATTTGAACCTCCACTACCTCCAGATTCTGAACATCAAAAAGCAGAGCGTC  
TGCGTGGTGCATTTGAGAACTTGGGACATTGGACAACCAAGCTCTCTAGACGAGACAGCGTATGAAA  
GACTGGCGGAAGAGACCCTGGACTCCCTGGCCGAGTTCTTTGAAGACCTCGCAGACAAGCCCTATACCT  
GGAGGACTACGATGTCTCTTTTGGGGATGGCGTGTCTACCATTAAGCTGGCGGGGATCTAGGGACCTAC  
GTGATCAACAAGCAGACCCAAACAAGCAAATCTGGCTGTCTTCTCCTCCAGCGGCCCAAGCGCTATG  
ACTGGACCGGGAAGAAGTGGGTGTACTCTCATGACGGCGTGTCTCTGCATGAGCTGCTGGCCAGGGAGCT  
GACTAAAGCTTTAAACACCAAACCTGGACTTGTCTTCATTGGCCTATTCTGGAAAAGGCACT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/ja3205_f03.zip">https://cdn.origene.com/chromatograms/ja3205_f03.zip</a>
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_008044
Insert Size:	624 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_008044.2</a> , <a href="#">NP_032070.1</a>
<b>RefSeq Size:</b>	1095 bp
<b>RefSeq ORF:</b>	624 bp
<b>Locus ID:</b>	14297
<b>UniProt ID:</b>	<a href="#">O35943</a>
<b>Cytogenetics:</b>	19 B
<b>Gene Summary:</b>	Promotes the biosynthesis of heme and assembly and repair of iron-sulfur clusters by delivering Fe(2+) to proteins involved in these pathways. May play a role in the protection against iron-catalyzed oxidative stress through its ability to catalyze the oxidation of Fe(2+) to Fe(3+); the oligomeric form but not the monomeric form has in vitro ferroxidase activity. May be able to store large amounts of iron in the form of a ferrihydrite mineral by oligomerization. Modulates the RNA-binding activity of ACO1 (By similarity).[UniProtKB/Swiss-Prot Function]