

Product datasheet for **SC326743**

Frataxin (FXN) (NM_001161706) Human Untagged Clone

Product data:

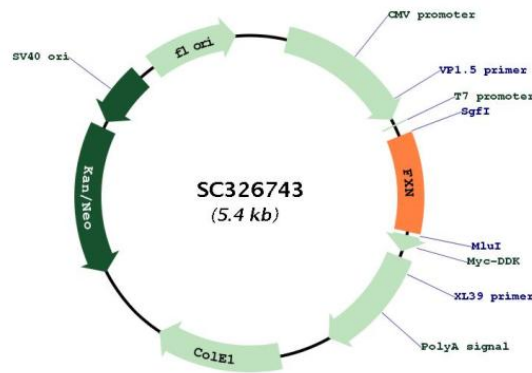
Product Type:	Expression Plasmids
Product Name:	Frataxin (FXN) (NM_001161706) Human Untagged Clone
Tag:	Tag Free
Symbol:	FXN
Synonyms:	CyaY; FA; FARR; FRDA; X25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326743 representing NM_001161706. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGACTCTCGGGCGCCGCGCAGTAGCCGGCCTCCTGGCGTCACCCAGCCCAGCCCAGGCCAGACC
CTCACCCGGTCCC GCGCCGCGCAGAGTTGGCCCCACTCTGCGGCCGCGTGGCCTGCGCACCGACATC
GATGCGACCTGCACGCCCGCCGCGCAAGTTCGAACCAACGTGGCCTCAACCAGATTTGGAATGTCAA
AAGCAGAGTGTCTATTTGATGAATTTGAGGAAATCTGGAACCTTTGGCCACCCAGGCTCTAGATGAG
ACCACCTATGAAAGACTAGCAGAGGAAACGCTGGACTCTTAGCAGAGTTTTTTGAAGACCTTGCAGAC
AAGCCATACACGTTTGGAGACTATGATGTCTCCTTTGGGAGTGGTGTCTTAAGTCAAAGTGGGTGGA
GATCTAGGAACCTATGTGATCAACAAGCAGACGCCAAACAAGCAAATCTGGCTATCTTCCATCCAGG
TTAACGTGGCTCCTGTGGCTGTTCCATCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_001161706

Insert Size: 516 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001161706.1](#)

RefSeq Size: 980 bp

RefSeq ORF: 516 bp

Locus ID: 2395

UniProt ID: [Q16595](#)

Cytogenetics: 9q21.11

Protein Families: Druggable Genome

MW: 19.1 kDa

Gene Summary: This nuclear gene encodes a mitochondrial protein which belongs to the FRATAXIN family. The protein functions in regulating mitochondrial iron transport and respiration. The expansion of intronic trinucleotide repeat GAA from 8-33 repeats to >90 repeats results in Friedreich ataxia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]
Transcript Variant: This variant (3) uses an alternate exon in the 3' coding region, compared to variant 1, that results in a frameshift. It encodes isoform 3, which has a shorter and distinct C-terminus, compared to isoform 1.