

Product datasheet for RC204880

Frataxin (FXN) (NM_000144) Human Tagged ORF Clone

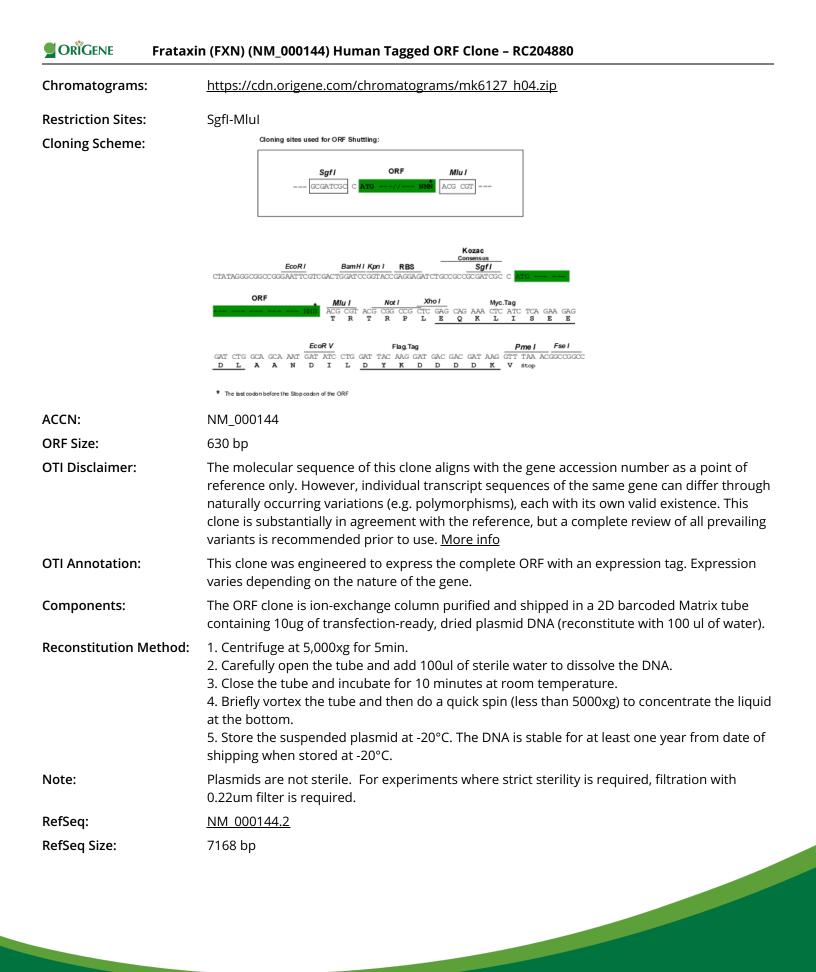
Product data:

OriGene Technologies, Inc.

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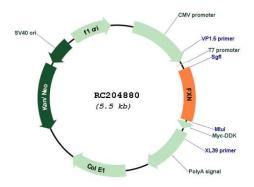
Product Type:	Expression Plasmids
Product Name:	Frataxin (FXN) (NM_000144) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Frataxin
Synonyms:	CyaY; FA; FARR; FRDA; X25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC204880 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGCC</mark>
	ATGTGGACTCTCGGGCGCCGCGCAGTAGCCGGCCTCCTGGCGTCACCCAGCCCGGCCCAGGCCCAGACCC TCACCCGGGTCCCGCGCGGCAGAGTTGGCCCCACTCTGCGGCCGCGTGGCCTGCGCACCGACATCGA TGCGACCTGCACGCCCCGCCGCGCAAGTTCGAACCAACGTGGCCTCAACCAGATTTGGAATGTCAAAAAG CAGAGTGTCTATTTGATGAATTTGAGGAAATCTGGAACTTTGGGCCACCCAGGCTCTCTAGATGAGACCA CCTATGAAAGACTAGCAGAGGAAACGCTGGACTCTTTAGCAGAGTTTTTTGAAGACCTTGCAGACAAGCC ATACACGTTTGAGGACTATGATGTCTCCTTTGGGAGTGGTGTCTTAACTGTCAAACTGGGTGGAGATCTA GGAACCTATGTAACAAGCAGACGACGCCAAACAAGCAAATCTGGCTATCTTCTCCATCCA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC204880 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MWTLGRRAVAGLLASPSPAQAQTLTRVPRPAELAPLCGRRGLRTDIDATCTPRRASSNQRGLNQIWNVKK QSVYLMNLRKSGTLGHPGSLDETTYERLAEETLDSLAEFFEDLADKPYTFEDYDVSFGSGVLTVKLGGDL GTYVINKQTPNKQIWLSSPSSGPKRYDWTGKNWVYSHDGVSLHELLAAELTKALKTKLDLSSLAYSGKDA
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



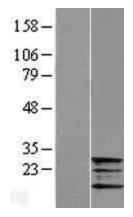


	Frataxin (FXN) (NM_000144) Human Tagged ORF Clone – RC204880
RefSeq ORF:	633 bp
Locus ID:	2395
UniProt ID:	<u>Q16595</u>
Cytogenetics:	9q21.11
Domains:	Frataxin_Cyay
Protein Families:	Druggable Genome
MW:	23.1 kDa
Gene Summary:	This nuclear gene encodes a mitochondrial protein which belongs to the FRATAXIN 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]

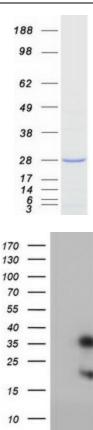
Product images:



Circular map for RC204880



Western blot validation of overexpression lysate (Cat# [LY400054]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204880 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FXN protein (Cat# [TP304880]). The protein was produced from HEK293T cells transfected with FXN cDNA clone (Cat# RC204880) using MegaTran 2.0 (Cat# [TT210002]).

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FXN (Cat# RC204880, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FXN(Cat# [TA504254]). Positive lysates [LY400054] (100ug) and [LC400054] (20ug) can be purchased separately from OriGene.