

Product datasheet for **RG204880**

Frataxin (FXN) (NM_000144) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Frataxin (FXN) (NM_000144) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Frataxin
Synonyms: CyaY; FA; FARR; FRDA; X25
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204880 representing NM_000144
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTGGACTCTCGGGCGCCGCGCAGTAGCCGGCCTCTGGCGTCACCCAGCCGGCCAGGCCAGACCC
TCACCCGGGTCCCGCGCCGCGCAGAGTTGGCCCCACTCTGCGCCGCGTGGCTGCGCACCGACATCGA
TGCGACCTGCACGCCCCGCGCAAGTTCGAACCAACGTGGCCTCAACCAGATTGGAATGTCAAAAAG
CAGAGTGTCTATTTGATGAATTTGAGGAAATCTGGAACTTGGGCCACCCAGGCTCTCTAGATGAGACCA
CCTATGAAAGACTAGCAGAGGAAACGCTGGACTCTTTAGCAGAGTTTTTTGAAGACCTTGCAGACAAGCC
ATACACGTTTGAGGACTATGATGTCTCCTTTGGGAGTGGTGTCTTAAGTGTCAAACCTGGGTGGAGATCTA
GGAACCTATGTGATCAACAAGCAGACGCAACAAAGCAAACTGGCTATCTTCTCCATCCAGTGGACCTA
AGCGTTATGACTGGACTGGGAAAACTGGGTGTAATCCACGACGGCGTGTCCCTCCATGAGCTGCTGGC
CGCAGAGCTCACTAAAGCCTTAAACCAAACTGGACTTGTCTTCCTTGGCCTATTCCGGAAGATGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204880 representing NM_000144
Red=Cloning site Green=Tags(s)

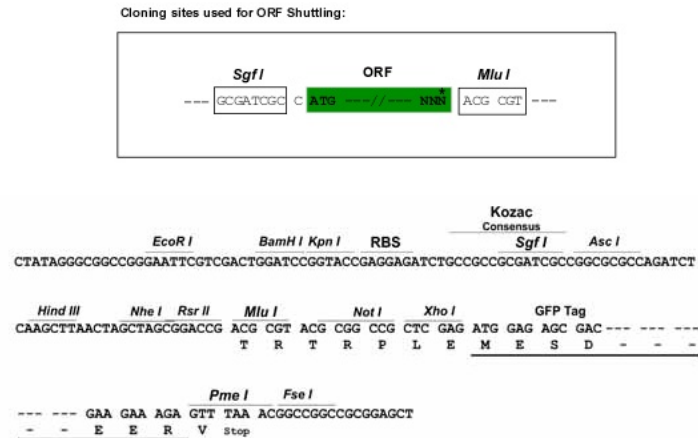
MWTLGRRVAGLLASPSPAQAQTLTRVPRPAELAPLCGRRGLRTDIDATCTPRRASSNQRLNQIWNVKK
QSVYLMNLRKSGTLGHPGSLDETTYERLAETLDSLAEFFEDLADKPYTFEDYDVSFSGSVLTVKLGDDL
GTYYINKQTPNKQIWLSSPSSGPKRYDWTGKNWVYSHDGVSLHELLAAELTKALKTKLDLSSLAISGKDA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_000144

ORF Size: 630 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_000144.2](#)

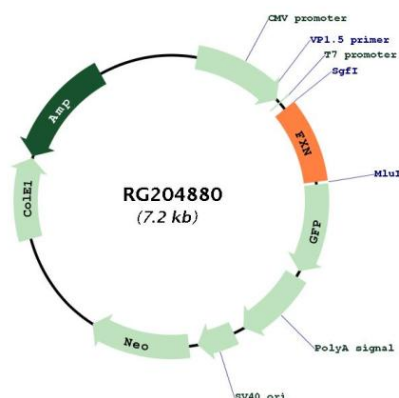
RefSeq Size: 2262 bp

RefSeq ORF: 633 bp

Locus ID: 2395

UniProt ID:	Q16595
Cytogenetics:	9q21.11
Domains:	Frataxin_Cyay
Protein Families:	Druggable Genome
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 RG204880