

## Product datasheet for **RG219677**

### Frataxin (FXN) (NM\_181425) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Frataxin (FXN) (NM\_181425) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** FXN  
**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:** >RG219677 representing NM\_181425  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGGACTCTCGGGCGCCGCGCAGTAGCCGGCTCCTGGCGTCACCCAGCCCAGCCCAGGCCAGACCC  
 TCACCCGGGTCCCGCGCCGCGCAGAGTTGGCCCCACTCTGCGGCCCGCTGGCTGCGCACCGACATCGA  
 TGGCACCTGCACGCCCGCCGCAAGTTCGAACCAACGTGGCCTCAACCAGATTTGGAATGTCAAAAAG  
 CAGAGTGTCTATTTGATGAATTTGAGGAAATCTGGAACTTGGGCCACCCAGGCTCTCTAGATGAGACCA  
 CCTATGAAAGACTAGCAGAGGAAACGCTGGACTCTTTAGCAGAGTTTTTTGAAGACCTTGCAGACAAGCC  
 ATACACGTTTGGAGACTATGATGTCTCCTTTGGGAGTGGTGTCTTAAGTGTCAAAGTGGTGGAGATCTA  
 GGAACCTATGTGATCAACAAGCAGACGCCAAACAAGCAAATCTGGCTATCTTCTCCATCCAGGTATGTAG  
 TGGACCTAAGCGTTATGACTGGACTGGGAAAACTGGGTGACTCCCACGACGGCGTGTCCCTCCATGAG  
 CTGCTGGCCGCGAGAGCTCACTAAAGCCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG219677 representing NM\_181425  
 Red=Cloning site Green=Tags(s)

MWTLGRRVAVGLLASPSPAQAQTLTRVPRPAELAPLCGRRRLRTDIDATCTPRRASSNQRLNQIWNVKK  
 QSVYLMNLRKSGTLGHPGSLDETTYERLAEETLDSLAEFFEDLADKPYTFEDYDVSFGSGVLTVKLGGDL  
 GTYVINKQTPNKQIWLSSPSRYVVDLSVMTGLGKTGCTPTTACPSMSCWPQSSSLKP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**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\\_181425.3](#)

**RefSeq Size:** 7176 bp

**RefSeq ORF:** 591 bp

**Locus ID:** 2395

**UniProt ID:** [Q16595](#)

**Cytogenetics:** 9q21.11

**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]