

## Product datasheet for **SC302579**

### FDX2 (NM\_001031734) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FDX2 (NM_001031734) Human Untagged Clone
Tag:	Tag Free
Symbol:	FDX2
Synonyms:	FDX1L; MEOAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302579 representing NM_001031734. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGCATGTCATGGCCGCCTCCATGGCCCGGGAGGCGTGAGTGCCAGGGTTCTACTGCAGGCTGCCAGG  
 GGCACCTGGTGGAAACAGACCTGGGGCACTTCGGGTGGGGGAGGGGTGGCGCTGGGACAACCAGA  
 AAGTTTCAAGCGACAGGCTCGCGCCGGCTGGAGAGGAGACGCGGGCGGCCCGGAGCGGCCCGGGAC  
 GTGGTGAACGTGGTGTTCGTAGACCGCTCAGGCCAGCGGATCCCAGTGAGTGGCAGAGTCGGGACAAT  
 GTTCTTCACCTGGCCAGCGCCACGGGTGGACCTGGAAGGGGCCTGTGAAGCCTCCCTGGCCTGCTCC  
 ACCTGCCATGTGTATGTGAGTGAAGACCACCTGGATCTCCTGCCTCCTCCGAGGAGAGGAAGACGAC  
 ATGCTAGACATGGCCCCCTCCTCCAGGAGAACTCGCGGCTGGGCTGCCAGATTGTGCTGACACCGGAG  
 CTGGAAGGAGCGGAATCACCTGCCCAAGATCACCAGGAACCTTACGTGGATGGCCATGTCCCAAG  
 CCCC**ACTGA**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001031734
Insert Size:	561 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).


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<b>OTI Annotation:</b>	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.
<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>	<u><a href="#">NM_001031734.3</a></u>
<b>RefSeq Size:</b>	864 bp
<b>RefSeq ORF:</b>	561 bp
<b>Locus ID:</b>	112812
<b>UniProt ID:</b>	<u><a href="#">Q6P4F2</a></u>
<b>Cytogenetics:</b>	19p13.2
<b>MW:</b>	19.9 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the ferredoxin family. The encoded protein contains a 2Fe-2S ferredoxin-type domain and is essential for heme A and Fe/S protein biosynthesis. Mutation in FDX1L gene is associated with mitochondrial muscle myopathy. [provided by RefSeq, Sep 2014]</p>