

## Product datasheet for **MC216770**

### **Fdxr (NM\_007997) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fdxr (NM_007997) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fdxr
Synonyms:	AR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216770 representing NM\_007997  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCCTCGTCTGGCACTGGTGGCGTGGTCCGCGTGGTCTGGGCTTCGGCCGTCTCCCTCCAGGA  
 GCACTCCGACCCAGGCTTCTGCCAGAAGTTCTCCACACAGGAGAAGACCCCTCAGATCTGTGTGGTCGG  
 CAGTGGCCAGCTGGCTTCTACACAGCCAACTTGTAAAGCACACACCCATGCCACGTAGACATC  
 TACGAGAAGCAGCTCGTCCATTGCGCCTGGTGCCTTTGGTGTGGCACCTGACCATCTGAAGTAAAGA  
 ATGTTATCAACACATTTACACAGACAGCCCGCTCAGACCGCTGTGCCTTCAGGGCAATGTGGTGGTGGG  
 CAGGGACGTGTCGGTCCAGAGCTTCGGGAAGCCTACCATGCTGTGGTGTGAGTTATGGAGCAGAGGAC  
 CACCAACCCCTGGGAATTCCTGGCGAGGAGCTGCCTGGAGTGGTCTCAGCCCGGGCCTTTGTGGGCTGGT  
 ACAATGGACTTCCCGAGAACCAGGAGCTGGCGCCAGATCTGAGCTGTGACACGGCTGAATCTGGGACA  
 GGGGAATGTGGCTCTGGATGTGGCCGGATCCTGCTGACCCACCTGAGCACCTGGAGAAAACAGACATC  
 ACAGAGGCTGCATTGGGGGCCCTGAGGCAGAGTCGGGTGAAGACTGTGTGGATAGTGGGCCGGCGTGGGC  
 CCTTGCAAGTAGCGTTACCATTAAGGAGCTTCGGGAGATGATTCAAGTCCAGGAACCCGGCCATTTT  
 GGATCCTTCGGATTTCTTGGGCCTCCAGGACAGAATTAAGGATGTCCCCCGTCCAAGGAGGGCGGTAACA  
 GAACTGCTGCTTCGGACAGCCACGGAGAAGCCAGGAGTGAAGAGGCTGCCCGCCAGGCACTGGCCTCCC  
 GGGCCTGGGGTCTCCGCTTTTTCCGAAGCCCCAGCAGGTGCTCCCTACCCAGATGGCCAACGGGTAGC  
 AGGCATCCGCTGGCAGTTACTAGTCTAGAGGGTGTGGGGAGTCCACTCGGGCAGTGCCACAGGAGAC  
 GTGGAGGACCTCCCTTGTGGACTGCTGCTGAGCAGCGTTGGGTAAGAGCCGCCCATCGACCCAGCG  
 TGCCCTTTGACCCCAAGCTTGGAGTCATCCCAACACAGAGGGCCGGGTTGTGAATGTCCAGGCCCTTA  
 CTGCAGTGGCTGGGTGAAGAGGGGACCCACAGGTGTCATCACCACAACCATGACAGACAGCTTCTCACC  
 AGCCAGGCGCTGCTGGAGACCTGAAGGCGGGGCTGCTGCCCTCCGGCCAGACCCGGCTATGTGGCCA  
 TTCAAGCCCTGCTCAGCAATCGAGGAGTCCGGCCAGTGTCTTTCTCAGACTGGGAGAAGCTGGATGCTGA  
 GGAAGTCTCTCGAGGCCAAGGTAAGTGGGAAACCAAGGGAGAAGCTGGTGGATCGAAGAGAGATGCTGCG  
 CTGCTGGGCCACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_007997

**Insert Size:** 1485 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).

**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\\_007997.1](#), [NP\\_032023.1](#)

**RefSeq Size:** 1866 bp

**RefSeq ORF:** 1485 bp

**Locus ID:** 14149

**UniProt ID:** [Q61578](#)

**Cytogenetics:** 11 E2

**Gene Summary:** Serves as the first electron transfer protein in all the mitochondrial P450 systems including cholesterol side chain cleavage in all steroidogenic tissues, steroid 11-beta hydroxylation in the adrenal cortex, 25-OH-vitamin D3-24 hydroxylation in the kidney, and sterol C-27 hydroxylation in the liver.[UniProtKB/Swiss-Prot Function]