

Product datasheet for **MR228245**

Fdx1 (NM_001301728) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fdx1 (NM_001301728) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fdx1
Synonyms: ADRE
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228245 representing NM_001301728
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCGGCCGCTCCGGCGCCGACTCCTGCGCGCGGCTGCGCCTCCGTCCCTTTCCGCGGCCTTGACC
GCTGTCGGCTGCTGGTCTGCGGGACCGAGCGGGAAGTCCATCTCTCCGTGGACCCGAGTCCCGCCT
GCATGCAGAGGCCGGCCCGGCCGCTGAGCGTGTCTGCGCGCGCGGAGCAGCTCAGAAGATAAG
ATAACAGTCCACTTCAAGAACCAGATGGCGAGACGCTAACGACCAAGGGGAAAATTGGCGACTCTCTGC
TAGATGTTGTGATTGAGAACAATTAGATATCGATGGGTTTGGTGCCTGTGAGGGAACGTTGGCTTGCTC
TACTTGTCATCTTATCTTTGAGGATCACATCTATGAGAAGTTAGATGCCATTACTGATGAAGAGAATGAC
ATGCTTGACCTGGCTTTTGGACTAACAGACAGGAACCTGGAAGACCCACCTATTTCTTCAGCCAGCAA
TTGGTCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

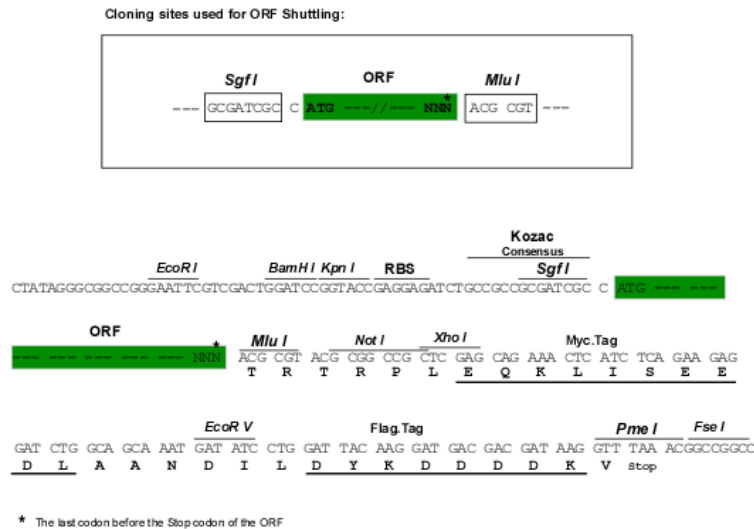
Protein Sequence: >MR228245 representing NM_001301728
Red=Cloning site Green=Tags(s)

MAAAPGARLLRAACASVPFRGLDRCRLVCGTGAGTAISPWTPSPRLHAEAGPGRPLSVSARARSSSEDK
 ITVHFKNRDGETLTTKGIGDSLDDVIENNLIDGFGACEGTACSTCHLIFEDHIYEKLDAITDEEND
 MLDLAFGLTDRNLEDPPISFSPAIGP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


[View online »](#)

Cloning Scheme:


ACCN: NM_001301728

ORF Size: 498 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_001301728.1](#), [NP_001288657.1](#)

RefSeq Size: 2827 bp

RefSeq ORF: 501 bp

Locus ID: 14148

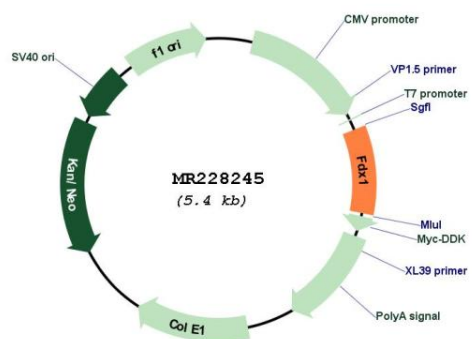
UniProt ID: [P46656](#)

Cytogenetics: 9 A5.3

MW: 18.1 kDa

Gene Summary: Ferredoxins are iron-sulfur proteins that facilitate monooxygenase reactions catalyzed by P450 enzymes. The protein encoded by this gene is present in the mitochondrial matrix and transfers electrons from ferredoxin reductase to steroidogenic mitochondrial cytochrome P450 proteins. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2014]

Product images:



Circular map for MR228245