

## Product datasheet for **MR223296**

### **Fmo4 (NM\_144878) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fmo4 (NM_144878) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fmo4
Synonyms:	D1Erttd532e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR223296 representing NM\_144878  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAAGAAGGTGGCAGTGATTGGAGCTGGCGTAAGTGGCCTGTCCTCTATCAAGTGCTGCTTGGACG  
 AGAACCTGGAGCCACCTGCTTTGAGAGAAGTAGCGACTTTGGCGGACTGTGGAAGTTGCTGACACTTC  
 CGAGGATGGGATGACCAGGGTTTACAGGCTCACTAGTGACAAATGTCTGCAAAGAAATGTCATGTTACAGT  
 GACTTCCCATTCCGAGAAGATTACCCCAACTTCATGAGCCATGAGAAATCTGGGACTATCTCAGAGAAT  
 TTGCTGAGCACTTTGGCCTGCTGAGATATTCGGTTTAAACAAGTGTGCTCAGTGAACAAAGCGCCC  
 AGACTTCTCTGAAACTGGCCAGTGGGATGTTGTACAGAGACAGAAGGCAACCGGACAGGGCAGTATTT  
 GACGCTGTTATGGTTTGCCTGGCAATTCCTGAGCCACATTTACCTCTGGAGTCTTTCTGGAATCC  
 ATAAGTTTAAAGGACAGATCCTGCACAGCAAGAGTACAGGATCCAGATGCCTCCGGGCAAGCGCAT  
 CCTGGTGGTTGGTCTTGGAAACTGGCGGGACATAGCAGTAGAGCTCAGTGAATAGCAGCTCAGGTG  
 TTTCTCAGCACTAGAAGTGGCACCTGGGTCTAAGCCGCTCCTCACCTGGTGGTACCCTTTCAATATGA  
 TACAAACAAGATGGCTCAATTTCTTGTACGAGTCTGCCTTACGTTTTATAAACTGGACTCACAGAGAG  
 GAAATGAATAAAATACTTAACCATGAGAATTATGGATTAAGCATTGCAAAAGGGAAAAACCAAAATTT  
 ATTGTAATGATGAACTACCAACCTGTACTTTGTGGGAAAGTACCATGAAAACCGCGTGAAGGATT  
 TTACAGAACTTCTGTACTTTGAAGATGGTACAACAGAAGCCAACATTGATGTAGTGATCTTCACTAC  
 AGGATATGAATTTCTTTCCCTTTTTGAAGAAGCTCTCAAAGCCTTTGTACAAGAAGATCATCCTA  
 TACAACGAGTCTTTCCCAAAATTTGGAGAGCAACATTAGCCATTATTGGCCTGATCAGCCTTAATG  
 GGTCGATCTTAGTGGGCACAGAGTTCCAAGCACGATGGGCCACAAGAGTATTCAAAGGACTCTGTAGCAT  
 ACCTCCATCTCAGAAACTGATGGCCGAAGCCACTAAAACGGAGCAGCTCATTAAAAGGGGTGTGATTA  
 GATACCAGCCAAGACAACTGGACTTCATTACCTACATGGACGAGCTCACTCAGTGCATAGGCGCGAAGC  
 CCAGCATTCCACTTTTGTTCATTAAGGATCCAAGATTGGCTTGGGAAAGTTTTCTTTGGACCATGTACCC  
 TTACCAATACCGCTAGTGGCCCTGGAAGATGGGATGGAGCCAGAAATGCCATCCTGACACAGTGGGAC  
 AGGACTCTGAAACCATTAATAACTCGAATTGTTCTTAAGTCCCCGAGCCTACCTCCCTCTCACATTACT  
 TAATAGCTTGGGGGCACCTGCTGCTGTCTCTTTTACTTATCTACAAATCTTACATTTTCTTGA  
 ATTGGTACAAGGTAAGCTACCGAGAAGATTTCCCTTACCGATTACTGTGTACATGCCCCAGAAGTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223296 representing NM\_144878  
 Red=Cloning site Green=Tags(s)

MAKKVAVIGAGVSGLSSIKCLDENLEPTCFERTSDFGGLWKFADTSEDGMTRVYRSLVTNVCKEMSCYS  
 DFPFREDYPNFMFSHEKFWDYLRFAEHFGLLRIRFKTTVLSVTKRPDFSETGQWDVVTEETEGKRDRVAF  
 DAVMVCTGQFLSPHLPLESFPGIHKFKGQILHSQEYRIPDAFRGKRILVVGLGNTGGDIASEIAAQV  
 FLSTRGTWVLSRSPGGYPFNMIQTRWLNFLVRVLPFRFINWOTHERKMNKILNHENYGLSIAGKPKPKF  
 IVNDELPTCILCGKVTMKTsvkdfTESSVIFEDGTTANIDVVIFFTGYEFSFPFFEEPLKSLCTKKIIL  
 YKRVFPNLERATLAIIGLISLNGSILVGTEFQARWATRVFKGLCSIPPSQKLMAEATKTEQLIKRGVIK  
 DTSQDKLDFITYMDEL TQCIGAKPSIPLLF IKDPRLAWEVFFGPCTPYQYRLVGPGRWDGARNAILTQWD  
 RTLKPLKTRIVPKSPEPTSLSHYLIWAGAPVLLVSLLLIYKSSHFLQLVQGLPRRFPYRLLWYMPQNS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9015\\_c05.zip](https://cdn.origene.com/chromatograms/mm9015_c05.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_144878

**ORF Size:** 1680 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.

**RefSeq:** [NM\\_144878.1](#), [NP\\_659127.1](#)

**RefSeq Size:** 1787 bp

**RefSeq ORF:** 1683 bp

**Locus ID:** 226564

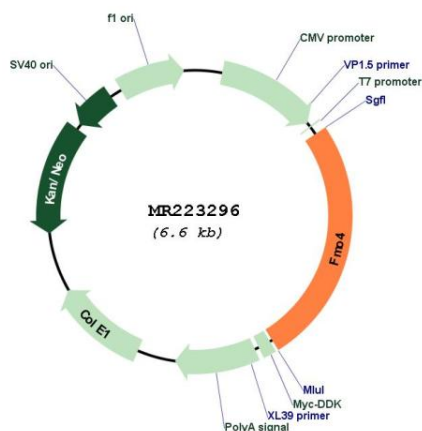
**UniProt ID:** [Q8VHG0](#)

Cytogenetics: 1 70.34 cM

MW: 64.2 kDa

Gene Summary: This protein is involved in the oxidative metabolism of a variety of xenobiotics such as drugs and pesticides.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR223296