

Product datasheet for **MR208580**

Fmo2 (NM_018881) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo2 (NM_018881) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fmo2
Synonyms:	2310008D08Rik; 2310042I22Rik; AW107733
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208580 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAAAGAAGTTGTGGTGATTGGAGCAGGGTTCAGTGGCCTAATCTCTCTGAAGTCTGCTGGGACG
 AGGGTCTGGAGCCACCTGCTTCGAAAGGACTGAAGATATAGGGGACTGTGGAGATTCAAAGAAAACGT
 GGAAGATGGCCGCGCTAGCATCTACCGCTCTGTCATTACCAACTAGCAAAGAAATGCTCTGTTTCAGT
 GACTTCCCGATGCCGGAGGACTTCCCAACTTCTGCACAACCTAAACTCCTGGAATATTTTCAGGATCT
 TTGCCAAGAAATTTGATCTCCTAAAATATATTCAGTTTCAGACAACCTGTCATTAGTGTGAAAAACGCC
 GGATTTTCGCATCTTCTGGGCAATGGGAAGTTTATACTCAGAGCAACGAAAGGAGCAACGCACTGTCTTT
 GACGCTGTTATGGTTTGCAGCGCCATCACATCCAGCCTCACCTGCCACTCAAGTATTCCAGGTATTG
 AGAGGTTCCGAGGCCAGTATTTCCATAGCCGGAATACAAGCACCCAGTGGGTTTGGAGGAAACGCAT
 CCTGGTGGTTGGAATAGGAAATTCAGCTGCAGATATTGCCTCTGAACTGAGTAAGACGGCCGACAGGTG
 TTTGTCAGCACCAGACATGGATCCTGGGTATGAGTCGAATCTCTGAAGATGGCTACCCTTGGGACATGG
 TGTTCCACACTAGATTTAGCTCCATGCTCCGAAATGCTCTGCCCGCACGGTCTGCAAGTGGATGATGGA
 ACAACAGATGAATCGATGGTTCAACCATGAAAATTATGGTCTGGTGCCTCAGAACAATACCTTATGAAA
 GAACCTGTGCTAAACGACGACCTCCCCAGCCGCTGCTCTACGGAGCCATCAAAGTAAAAACACGGGTGA
 AGGAGCTCACGGAGACAGCTGTGGTCTTCGAGGATGGCACGGTGGAGGAAGACGTGGATATCATTGTCTT
 TGCCACGGGTATACGTTCTCTTTTCTTCTGGAAGACTCACTTGTTAAAGTGGAGGATAATAGGTT
 TCCCTGTACAAAGCCATGTTTCCCTCACCTGGAGAAGCCAACCCTTGGTGCATAGGTCTCATCCAGC
 CTCTAGGCTCCATCTTCCCAACCGTAGAGCTTCAGGCGCGCTGGCAACAAGATTTTCAAAGCTTGTG
 TAGCTTGCCCTTCGGAGACGACTATGATGGCAGACATTGTTGAAAGAAATGAAAAAGAGTTAACCTGTTT
 GGGAAAAGCCAGAGTCAGATACTGCAGACCAACTACGTTGACTACCTGGATGAACTCGCCTTGGAGATAG
 GTGCAAAGCCAGATTTCTCTCTCTTTTTCAAAGACCCTAACTGGCTGTGAACTCTACTTCGGACC
 CTGTAATTCCTACCAGTACCGCCTGGTTGGACCTGGGAGTGGGAAGGAGCCAGGAACGCCATCCTCACC
 CAGAAGCAGAGGATCCTGAAACCCTAAAGACCCGACTCTCCAGTCTCTGATAGTCCCCAGTGTCTT
 TCCTGCTCAAGATCCTGGGGCTGCTCGCTGTTGTTCTGGCCTTCTTTTCCAACCTCAGGGGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208580 protein sequence
 Red=Cloning site Green=Tags(s)

MAKKVVVIGAGVSGLISLKCCVDEGLEPTCFERTEIDIGLWRFKENVEDGRASIYRSVITNTSKEMSCFS
 DFPMPEDFPNFLHNSKLLLEYFRIFAKKFDLLKYIQFTTVISVKKRPDFASSGQWEVYVTSNGKEQRTVF
 DAVMVCSGHHIQPHLPLKSFPGIERFRGQYFHSREYKHPVGFEGKRILVVGIGNSAADIASELKTAQV
 FVSTRHGSWMSRISSEGYPWDVMVFHTRFSSMLRNVLPRTVVKKWMEQMMNRWFNHNENGLVPQNKYLMK
 EPVLNDDLPSRLLYGAIKVKTRVKELTETAVVFEDGTVEEDVDIIVFATGYTFSFLEDSLKVEDNRF
 SLYKAMFPPHLEKPTLACIGLIQPLGSIPTVELQARWATRVFKGLCSLPSETMMADIVERNEKRVNLF
 GKSQSILQNTNYVDYLDLALALEIGAKPDFVSLFFKDPKLAVKLYFGPCNSYQYRLVGPQWEGARNAILT
 QKQRILKPLKRTLQSSDSAPVSFLLKILGLLAVVLAFFFLQGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018881

ORF Size: 1608 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_018881.2](#)

RefSeq Size: 3336 bp

RefSeq ORF: 1608 bp

Locus ID: 55990

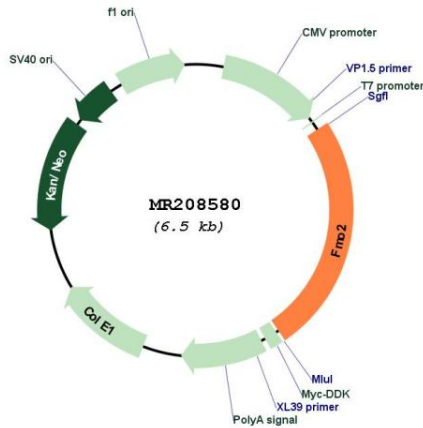
UniProt ID: [Q8K2I3](#)

Cytogenetics: 1 H2.1

MW: 61 kDa

Gene Summary: This protein is involved in the oxidative metabolism of a variety of xenobiotics such as drugs and pesticides. Shows catalytic activity towards methimazole, thiourea, trimethylamine, and the insecticide phorate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208580