

Product datasheet for **MR208538**

Fmo5 (NM_010232) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo5 (NM_010232) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fmo5
Synonyms:	5033418D19Rik; AI195026
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208538 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAAAAAAGGATTGCTGTAATTGGAGCAGGAGCTAGCGGGCTCACCTGCATCAAGTCTGCCTGG
 AAGAGGGCTTGGAACTGTCTGCTTTGAAAGGCTGGTGACATCGGAGGACTGTGGAGATTCCAGGAAGC
 CCCTGAGGAAGGCAGGGCCAGTATTTACCAGTCCGTGGTCATCAACACCTCCAAGGAAATGATGTGTTTC
 AGTGACTACCCCATCCAGATCATTACCCTAACTACATGCACAACCTCCAGGTCCTAGAGTATTTTCAGGA
 TGTATGCCAAAGAATTTGACCTTCTCAAAATATATCCAATCAAGACTACAGTGTGCAGCGTGAAGAAGCA
 GCCTGATTTCTCTACCTCGGGCAATGGCAGGTGGTCACTGAGTGTGAAGGAAACAGCAGGTAGACGTC
 TTCGATGGAGTCTGGTGTGCACGGGTATCACACGGATGCTCACCTGCCCTGGAAAGCTTTCTGGAA
 TTGAAAAGTTCAAAGGAAAGTACTTTACAGCCGAGACTATAAGAACCCAGTGAATTCACCGGGAAGAG
 GGTCAATTGTAATTGGCATTGGGAATTCGAGGGGATCTGGCTGTAGAGATTAGCCACACAGCCAAGCAG
 GTATTCCTCAGTACCAGGAGAGGAGCTTGATCTTGAACCGTGTAGGCAAGCATGGATATCTATTGACC
 TGCTACTCTCTTCTCGGATTATGTACTACTTGTACGATCTGTGGTCCATCACTAAAAACAACATAT
 GGAAAAACAGATGAACCAAAGGTTTGATCATGAAATGTTTGGCCTGAAACCTAAACACAGGGCTCTGAGT
 CAGCATCCAACAGTGAATGATGACCTGCCCAATCGTATCATTGCTGGCTTGGTGAAGGTGAAAGGAAATG
 TGAAGGAATTCACAGAGACAGCCGCCGATTTGAGGATGGCTCCAGGGAGGATGGCATTGATGTGGTCAT
 CTTTGGCAGGCTACAGCTTTGCCCTTCTCTTTCTTGGAGACTCTGTCAAAGTAGTAAAAACAAGGTG
 TCCTTGTACAAAAAGGTCTTTCCACCTAACCTGGAAAAACCAACTTGAATCATCGGCTTAATTCAGC
 CCTTGGGAGCCATTATGCCCATTCAGAGCTCCAAGGACGCTGGGCCACTCAAGTGTTCAAAGGGCTAAA
 GAAATTGCCCTCACAAAGTGAAATGATGGCAGAAATAAATAAGGCTCGAGAGGAAATGGCAAAAAGGTAT
 GTGGACAGCCAGCGTCATACCATCCAGGAGACTATATAGACACCATGGAAGAGATTGCAGATTTAGTGG
 GTGTCAGGCCCAATATCCTGCCTCTGGTCTTCACTGACCCAGGCTGGCATTACGTTACTACTGGGGCC
 CTGTACTCCAGTCCAGTATCGCCTACAGGGCCCTGAAAGTGGGCTGGAGCCCGAAAACTATTCTCACC
 ACGGAAGATCGTGTTCGGAAGCCTCTGATGACAAGAGTGGTGGAAAGAGACAGCTCTGGGGGTCACTGG
 TGACAGTGCCTCATGCTGGCTGTGCTTTCTTGTGTCATCCTGGCTTATTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208538 protein sequence
 Red=Cloning site Green=Tags(s)

MAKKRIAVIGAGASGLTICKCLEEGLEPVCFERSGDIGGLWRFQEAPEEGRASIYQSVVINTSKEMMCF
 SDYIPDPHYPNYMHNSQVLEYFRMYAKEFDLLKYIQFKTTVCSVKKQPDFSTSGWQVQVTECEGKQQVDV
 FDGVLVCTGHHTDAHLPLESFPGIEKFKGYFHSRDYKNPVEFTGKRVIIVIGIGNSGGDLAVEISHAKQ
 VFLSTRRGAWILNRVKGHGYPIDLLLSSRIMYYLSRICGPSLKNNYMEKQMNQRFDEMFLKPKHRALS
 QHPTVNDLPLNRIIAGLVKVKGNVKEFTETAAVFEDGSREDGIDVVIFATGYSFAFPFLDSVKVVKNKV
 SLYKKVFPPNLEKPTLAIIGLIQPLGAIMPISLQGRWATQVFKGLKPLSQSEMMAEINKAREEMAKRY
 VDSQRHTIQGDYIDTMEEIADLVGVRPNILPLVFTDPRLLRLLLGPCTPVQYRLQGPQKWAGARKTILT
 TEDRVKPLMTRVVERDSSGSLVTVRVLMLAVAFFAVILAYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010232

ORF Size: 1602 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_010232.5](#)

RefSeq Size: 5186 bp

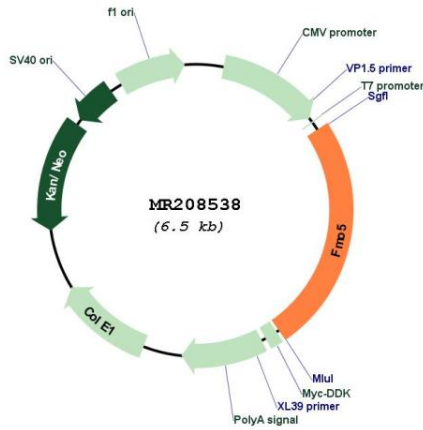
RefSeq ORF: 1602 bp

Locus ID: 14263

UniProt ID: [P97872](#)

Cytogenetics: 3 F2.2
 MW: 60 kDa
 Gene Summary: In contrast with other forms of FMO it does not seem to be a drug-metabolizing enzyme. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208538