

Product datasheet for **MR217162**

Fmo5 (NM_001161765) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo5 (NM_001161765) 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:

>MR217162 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAAAAAAGGATTGCTGTAATTGGAGCAGGAGCTAGCGGGCTCACCTGCATCAAGTCTGCCTGG
 AAGAGGGCTTGGAACTGTCTGCTTTGAAAGGTCTGGTGACATCGGAGGACTGTGGAGATTCCAGGAAGC
 CCCTGAGGAAGGCAGGGCCAGTATTTACCAGTCCGTGGTCATCAACACCTCCAAGGAAATGATGTGTTTC
 AGTGACTACCCCATCCCAGATCATTACCCTAACTACATGCACAACCTCCAGGTCTAGAGTATTTAGGA
 TGTATGCCAAAGAATTTGACCTTCTCAAATATATCCAATCAAGACTACAGTGTGCAGCGTGAAGAAGCA
 GCCTGATTTCTCTACCTCGGGCAATGGCAGGTGGTCACTGAGTGTGAAGGAAACAGCAGGTAGACGTC
 TTCGATGGAGTCTGGTGTGCACGGGTATCACACGGATGCTCACCTGCCCTGGAAAGCTTTCTGGAA
 TTGAAAAGTTCAAAGGAAAGTACTTTACAGCCGAGACTATAAGAACCCAGTGAATTCACCGGGAAGAG
 GGTCAATTGTAATTGGCATTGGGAATTCAGAGGGGATCTGGCTGTAGAGATTAGCCACACAGCCAAGCAG
 GTATTCCTCAGTACCAGGAGAGGAGCTTGATCTTGAACCGTGTAGGCAAGCATGGATATCTATTGACC
 TGCTACTCTCTTCTCGGATTATGTACTACTTGTACGATCTGTGGTCCATCACTAAAAACAACATAT
 GGAAAAACAGATGAACCAAAGGTTTGATCATGAAATGTTTGGCCTGAAACCTAAACACAGGGCTCTGAGT
 CAGCATCCAACAGTGAATGATGACCTGCCCAATCGTATCATTGCTGGCTTGGTGAAGGTGAAAGGAAATG
 TGAAGGAATTCACAGAGACAGCCGCCGATTTGAGGATGGCTCCAGGGAGGATGGCATTGATGTGGTCAT
 CTTTGGCAGAGCTACAGCTTTGCCCTTCTCTTTCTTGGAGACTCTGTCAAAGTAGTAAAAACAAGGTG
 TCCTTGTACAAAAAGGTCTTTCCACCTAACCTGGAAAAACCAACTTGAATCATCGGCTTAATTCAGC
 CCTTGGGAGCCATTATGCCCATTTAGAGCTCCAAGGACGCTGGGCCACTCAAGTGTTCAAAGGGCTAAA
 GAAATTGCCCTCACAAAGTGAAATGATGGCAGAAATAAATAAGGCTCGAGAGGAAATGGCAAAAAGGTAT
 GTGGACAGCCAGCGTCATACCATCCAGGGAGACTATATAGACACCATGGAAGAGATTGCAGATTTAGTGG
 GTGTCAGGCCCAATATCCTGCCTCTGGTCTTCACTGACCCAGGCTGGCATTACGTTACTACTGGGGCC
 CTGTACTCCAGTCCAGTATCGCCTACAGGGCCCTGGAAAGTGGGCTGGAGCCCGAAAACTATTCTCACC
 ACGGAAGATCGTGTTCGGAAGCCTCTGATGACAAGAGTGGTGGAAAGAGACAGCTCTGGGGGTCACTGG
 TGACAGTGCCTCATGCTGGCTGTGCTTTCTTTGCTGTCATCCTGGCTTATTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217162 protein sequence
 Red=Cloning site Green=Tags(s)

MAKKRIAVIGAGASGLTICKCLEEGLEPVCFERSGDIGGLWRFQEAPEEGRASIYQSVVINTSKEMMCF
 SDYPIPDHYPNYMHNSQVLEYFRMYAKEFDLLKYIQFKTTVCSVKKQPDFSTSGQWQVVTECEGKQQVDV
 FDGVLVCTGHHTDAHLPLESFPGIEKFKGYFHSRDYKNPVEFTGKRVIIVIGIGNSGGDLAVEISHAKQ
 VFLSTRRGAWILNRVKGHGYPIDLLLSSRIMYYLSRICGPSLKNNYMEKQMNQRFDHEMFLKPKHRALS
 QHPTVNDLPLNRIIAGLVKVKGNVKEFTETA AVFEDGSREDGIDVVIFATGYSFAFPFLDSVKVVKNKV
 SLYKKVFPPNLEKPTLAIIGLIQPLGAIMPISLQGRWATQVFKGLKPLPSQSEMMAEINKAREEMAKRY
 VDSQRHTIQGDYIDTMEEIADLVGVRPNILPLVFTDPRLLRLLLGPCTPVQYRLQGPWKWAGARKTILT
 TEDRVKPLMTRVVERDSSGSLVTVRVLMLAVAFFAVILAYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001161765

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_001161765.1](#), [NP_001155237.1](#)

RefSeq Size: 5285 bp

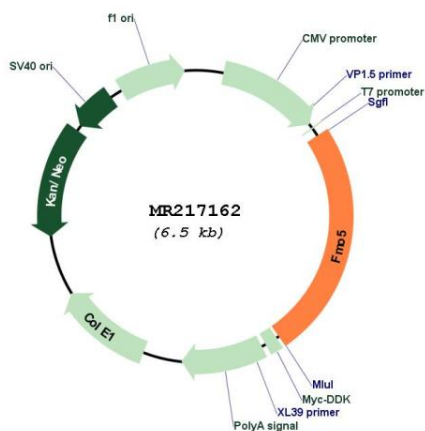
RefSeq ORF: 1602 bp

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 MR217162