

Product datasheet for **MG217144**

Fmo5 (NM_001161763) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo5 (NM_001161763) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fmo5
Synonyms:	5033418D19Rik; AI195026
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217144 representing NM_001161763
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAAAAAAGGATTGCTGTAATTGGAGCAGGAGCTAGCGGGCTCACCTGCATCAAGTCTGCCTGG
 AAGAGGGCTTGGAACTGTCTGCTTTGAAAGGTCTGGTGACATCGGAGGACTGTGGAGATTCCAGGAAGC
 CCCTGAGGAAGGCAGGGCCAGTATTTACCAGTCCGTGGTCATCAACACCTCCAAGGAAATGATGTGTTTC
 AGTGACTACCCCATCCCAGATCATTACCCTAACTACATGCACAACCTCCAGGTCTTAGAGTATTTTCAGGA
 TGTATGCCAAAGAATTTGACCTTCTCAAATATATCCAATCAAGACTACAGTGTGCAGCGTGAAGAAGCA
 GCCTGATTTCTCTACCTCGGGCAATGGCAGGTGGTCACTGAGTGTGAAGGAAACAGCAGGTAGACGTC
 TTCGATGGAGTCTGGTGTGCACGGGTATCACACGGATGCTCACCTGCCCTGGAAAGCTTTCTGGAA
 TTGAAAAGTTCAAAGGAAAGTACTTTACAGCCGAGACTATAAGAACCCAGTGAATTCACCGGGAAGAG
 GGTCAATTGTAATTGGCATTGGGAATTCAGAGGGGATCTGGCTGTAGAGATTAGCCACACAGCCAAGCAG
 GTATTCCTCAGTACCAGGAGAGGAGCTTGATCTTGAACCGTGTAGGCAAGCATGGATATCTATTGACC
 TGCTACTCTCTTCTCGGATTATGTACTACTTGTACGATCTGTGGTCCATCACTAAAAACAACACTATAT
 GGAAAAACAGATGAACCAAAGGTTTGATCATGAAATGTTTGGCCTGAAACCTAAACACAGGGCTCTGAGT
 CAGCATCCAACAGTGAATGATGACCTGCCCAATCGTATCATTGCTGGCTTGGTGAAGGTGAAAGGAAATG
 TGAAGGAATTCACAGAGACAGCCGCCGATTTGAGGATGGCTCCAGGGAGGATGGCATTGATGTGGTCAT
 CTTTGGCAGGCTACAGCTTTGCCCTTCTCTTTCTTGGAGACTCTGTCAAAGTAGTAAAAACAAGGTG
 TCCTTGTACAAAAAGGTCTTTCCACCTAACCTGGAAAAACCAACTTGAATCATCGGCTTAATTCAGC
 CCTTGGGAGCCATTATGCCCAATTCAGAGCTCCAAGACGCTGGGCCACTCAAGTGTTCAAAGGGCTAAA
 GAAATTGCCCTCACAAAGTGAAATGATGGCAGAAATAAATAAGGCTCGAGAGGAAATGGCAAAAAGGTAT
 GTGGACAGCCAGCGTCATACCATCCAGGGAGACTATATAGACACCATGGAAGAGATTGCAGATTTAGTGG
 GTGTCAGGCCCAATATCCTGCCTCTGGTCTTCACTGACCCAGGCTGGCATTACGTTACTACTGGGGCC
 CTGTACTCCAGTCCAGTATCGCCTACAGGGCCCTGAAAGTGGGCTGGAGCCCGAAAACTATTCTCACC
 ACGGAAGATCGTGTTCGGAAGCCTCTGATGACAAGAGTGGTGGAAAGAGACAGCTCTGGGGGTCACTGG
 TGACAGTGCCTCATGCTGGCTGTGCTTTCTTGTGTCATCCTGGCTTATTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG217144 representing NM_001161763
 Red=Cloning site Green=Tags(s)

MAKKRIAVIGAGASGLTCKCCLEEGLEPVCFERSGDIGLWRFQEAPEEGRASIQSVVINTSKEMMCF
 SDYIPDPHYPNYMHNSQVLEYFRMYAKEFDLLKYIQFKTTVCSVKKQPDFSTSGQWQVVTECEGKQVQDV
 FDGVLVCTGHHTDAHLPLESFGIEKFKGYFHSRDYKNPVEFTGKRIVIVIGIGNSGGDLAVEISHTAKQ
 VFLSTRRGAWILNRVKGHGYPIDLLLSSRIMYYLSRICGPSLKNNYMEKQMNQRFDHEMFGLKPKHRALS
 QHPTVNDLPLNRIIAGLVKVKGNVKEFTETAAVFEDGSREDGIDVVIFATGYSFAFPFLEDSVKVVKNKV
 SLYKVFPPNLEKPTLAIIGLIQPLGAIMPISELQGRWATQVFKLKKLPSQSEMMAEINKAREEMAKRY
 VDSQRHTIQGDYIDTMEEIADLVGVRPNILPLVFTDPRALRLLLGPCTPVQYRLQGPGKWAGARKTILT
 TEDRVKPLMTRVVERDSSGSLVTVRVLMLAVAFFAVILAYF

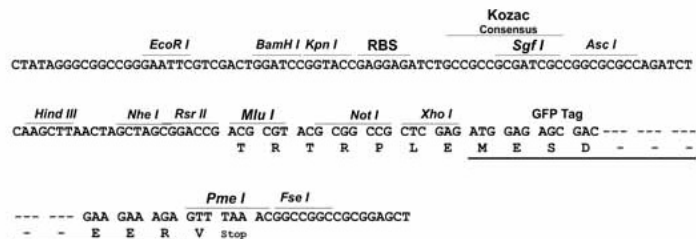
TRTRPLE – GFP Tag – V

Restriction Sites:

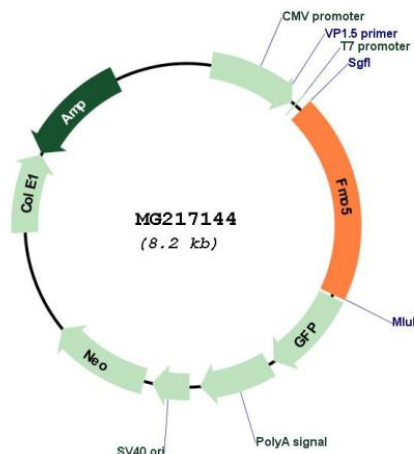
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001161763
ORF Size:	1599 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:	<ol style="list-style-type: none">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_001161763.1 , NP_001155235.1
RefSeq Size:	5202 bp
RefSeq ORF:	1602 bp
Locus ID:	14263
UniProt ID:	P97872
Cytogenetics:	3 F2.2
Gene Summary:	In contrast with other forms of FMO it does not seem to be a drug-metabolizing enzyme. [UniProtKB/Swiss-Prot Function]