

Product datasheet for **MG208580**

Fmo2 (NM_018881) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo2 (NM_018881) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fmo2
Synonyms:	2310008D08Rik; 2310042I22Rik; AW107733
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208580 representing NM_018881
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAAAGAAGTTGTGGTATTGGAGCAGGGTTCAGTGGCCTAATCTCTCTGAAGTCTGCTGGACG
 AGGGTCTGGAGCCACCTGCTTCGAAAGGACTGAAGATATAGGGGACTGTGGAGATTCAAAGAAAACGT
 GGAAGATGGCCGCGCTAGCATCTACCGCTCTGTCATTACCAACTAGCAAAGAAATGCTCTGTTTCAGT
 GACTTCCCGATGCCGAGGACTTCCCAACTTCTGCACAACCTAAACTCCTGGAATATTTTCAGGATCT
 TTGCCAAGAAATTTGATCTCCTAAAATATATTCAGTTTCAGACAACCTGTCATTAGTGTGAAAAACGCC
 GGATTTTCGCATCTTCTGGGCAATGGGAAGTTTATACTCAGAGCAACGAAAGGAGCAACGCACTGTCTTT
 GACGCTGTTATGGTTTGCAGCGCCATCACATCCAGCCTCACCTGCCACTCAAGTATTCCAGGTATTG
 AGAGGTTCCGAGGCCAGTATTTCCATAGCCGGAATACAAGCACCCAGTGGGTTTGGGGGAAACGCAT
 CCTGGTGGTTGGAATAGGAAATTCAGCTGCAGATATTGCCTCTGAACTGAGTAAGACGGCCGCACAGGTG
 TTTGTCAGCACCAGACATGGATCCTGGTTCATGAGTCGAATCTCTGAAGATGGCTACCCTTGGGACATGG
 TGTCCACACTAGATTTAGCTCCATGCTCCGAAATGCTCTGCCCCGCACGGTCTGCAAGTGGATGATGGA
 ACAACAGATGAATCGATGGTTCAACCATGAAAATTATGGTCTGGTGCCTCAGAACAATACTTTATGAAA
 GAACCTGTGCTAAACGACGACCTCCCCAGCCGCTGCTCTACGGAGCCATCAAAGTAAAAACACGGGTGA
 AGGAGCTCACGGAGACAGCTGTGGTCTTCGAGGATGGCACGGTGGAGGAAGACGTGGATATCATTGTCTT
 TGCCACGGGGTACGTTCTCTTTTTCTTCTGGAAGACTCACTTGTTAAAGTGGAGGATAATAGGGTT
 TCCCTGTACAAAGCCATGTTTCCCTCACCTGGAGAAGCCAACCCTTGGTGCATAGGTCTCATCCAGC
 CTCTAGGCTCCATCTTCCCAACCGTAGAGCTTCAGGCGCGCTGGGCAACAAGATTTTCAAAGCCTTGTG
 TAGCTTGCCCTTCGAGACGACTATGATGGCAGACATTGTTGAAAGAAATGAAAAAGAGTTAACCTGTTT
 GGGAAAAGCCAGAGTCAGATACTGCAGACCAACTACGTTGACTACCTGGATGAACTCGCCTTGGAGATAG
 GTGCAAAGCCAGATTTCTCTCTCTTTTTCAAAGACCCTAACTGGCTGTGAAACTCTACTTCGGACC
 CTGTAATTCCTACCAGTACCGCCTGGTTGGACCTGGGCAGTGGGAAGGAGCCAGGAACGCCATCCTCACC
 CAGAAGCAGAGGATCCTGAAACCCTAAAGACCCGACTCTCCAGTCTCTGATAGTCCCCAGTGTCTT
 TCCTGCTCAAGATCCTGGGGCTGCTCGCTGTTGTTCTGGCCTTCTTTTTCCAACCTCAGGGGTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208580 representing NM_018881
 Red=Cloning site Green=Tags(s)

MAKKVVVIGAGVSGLISLKCCVDEGLEPTCFERTEDIGGLWRFKENVEDGRASIYRSVITNTSKEMSCFS
 DFPMPEDFPNLFHNSKLLLEYFRIFAKKFDLLKYIQFQTTVISVKKRPFDFASSGQWEVYTSNGKEQRTVF
 DAVMVCSGHHIQPHLPLKSFPGERFRGQYFHSREYKHPVGFEGKRILVVGIGNSAADIASEL.SKTAQV
 FVSTRHGSWVMSRISSEGYPWDVVFHTRFSSMLRNVLPRTVVKKWMEQMMNRWFNHNENYGLVPQNKYLMK
 EPVLNDDLPSRLLYGAIKVKTRVKELTETAVVFEDGTVEEDVDIIVFATGYTFSFLEDSLKVVEDNRV
 SLYKAMFPPHLEKPTLACIGLIQPLGSIFPTVELQARWATRVFKGLCSLPSETMMADIVERNEKRVNLF
 GKSQSILQNTNYVDYLDLALALEIGAKPDFVSLFFKDPKLAVKLYFGPCNSYQYRLVGPQWEGARNAILT
 QKQRILKPLKTRTLQSSDSAPVSLKILGLLAVVLAFFFLQGF

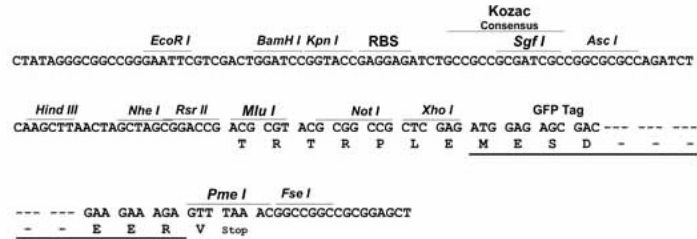
TRTRPLE – GFP Tag – V

Restriction Sites:

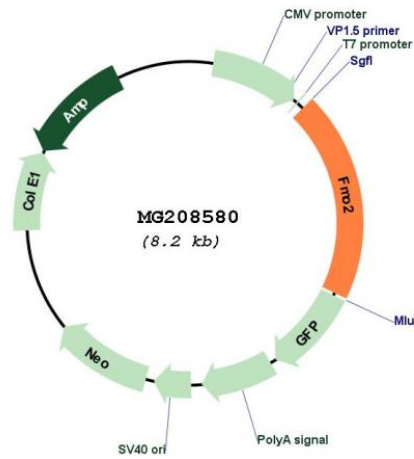
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_018881
ORF Size:	1605 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_018881.2
RefSeq Size:	3336 bp
RefSeq ORF:	1608 bp
Locus ID:	55990
UniProt ID:	Q8K2I3
Cytogenetics:	1 H2.1
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]