

Product datasheet for **RR204302**

Fmo2 (NM_144737) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo2 (NM_144737) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fmo2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR204302 representing NM_144737
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGAAGAAGTTGCCGTGATTGGAGCAGGGTTCAGTGGCCTGATCTCTCTAAAGTGCTGCTGGACG
 AGGGTCTGGAGCCACCTGCTTTGAAAGGACTGAGGATATCGGAGGACTGTGGAGTTCAAAGAAAACGT
 GGAAGATGGCCGAGCCAGCATCTACCACTCTGTATCACCACACTAGCAAAGAAATGCTCTGCTTCAGT
 GACTTCCCAATGCCGAGGATTTCCCAACTTCTGCACAACCTCTAAACTCCTGGAATACTTCAGGATCT
 TTGCCAAGAAATTTGATCTCCTAAAATATATTCAGTTTCAGACAACCGTCATTAGTGTGAAGAAACGCC
 AGATTTCCGATCTTCTGGGCAGTGGGACGTGTATGTTAGAGCAATGGCAAGGAGCAGCGTGTCTTT
 GACGCCGTTATGGTCTGCAGCGCCATCACATCCAGCCACCTGCCACTCAAGTCGTTCCAGGTATCG
 AGAGGTTCCAAGCCAGTATTTCCATAGCCGCAATACAAGCACCCAGTGGGGTATGAGGGGAAACGCAT
 CCTAGTGGTTGGAATAGGAACTCCGCCGAGACATTGCCTCTGAACTGAGTAAGAGGGCCGCGCAGGTG
 TTTGTCAGCACCAGACATGGTTCCTGGGTATTGAGCCGAATCTCTGAAGATGGCTACCCTTGGGACATGG
 TGTCCACACTAGATTTAGCTCCATGCTCCGGAATGCTCTGCCCCGACCGTCTCAAGTGGATGATGGA
 ACGACAGATGAATCGATGGTTCAACCATGAGAATTACGGCCTGGTGCCTCAGAACAAATACCTTATGAAA
 GAACCTGTATTAACGACGACCTCCCCAGCCGCTGCTGTACGGAGCCATCAAAGTAAAAACACGGGTAA
 AGGAGCTCACGGAGACAGCTGTGGTCTTCGAGGATGGCACGGTGGAGGAAGACGTGGATGTCATTGTCTT
 TGCCACAGGGTATACGTTCTCTTTCTTTCTTCTGGAAGACTCGCTTGTTAAAGTAGAGGATAATAAGGTC
 TCGCTGTACAAAGCCATGTTCCCTCACCTGGAGAAGCCAACCCTTGGTGCATAGGTCTCATCCAGC
 CTCTGGGCTCCATCTTCCCAACCGTAGAGCTTCAGCGCGGTGGGCGACAAGATTTTCAAAGCCGTGTG
 TCGCTTGCCTTCGGAGACGACGATGATGGCAGACATTGCTGAAAGAAATGAGAAAAGAATTGACCTGTTT
 GGAAAAAGCCAGAGCCAGATTCTGCAGACCAATTACATTGATTACCTGGATGAACTCGCCTTGGAGATAG
 GTGCGAAGCCGGACTTCTCTCTCTCTTTTCAAAGACCCTAACTGGCTGTGAAACTCTACTTCGGACC
 CTGCAATTCTACCAGTACCGCCTAGTTGGACCTGGGAGTGGGAAGGAGCCAGGAATGCCATCCTCACC
 CAGAAGCAGCGGATCCTGAAGCCGTTAAAGACTCGCACTCTCCAGACCTCAGCTAGTCCCCAGTGTCTT
 TCCTGATTAAGGTCCTGGGGCTGCTTGTATTGTTCTGGCCTTCTTTTCAAGCTTCATGGGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204302 representing NM_144737
 Red=Cloning site Green=Tags(s)

MVKKVAIVIGAGVSGLISLKCCVDEGLEPTCFERTEDIGGLWRFKENVEDGRASIYHSVITNTSKEMSCFS
 DFPMPEDFPNHLHNSKLLLEYFRIFAKKFDLLKYIQFQTTVISVKKRPFDFASSGQWDVYVQSNKEQRAVF
 DAVMVCSGHHIQPHLPLKSFPGIERFQGGYFHSRQYKHPVGYEGKRILVVGIGNSAADIASELKRAAQV
 FVSTRHGSWVLSRISEGYWDMVHFTRFSSMLRNVLPRTVVKKMMERQMNRFNHNENYGLVPQNKYLMK
 EPVLNDDLPSRLLYGAIKVKTRVKELTETAVVFEDGTVEEDVDVIVFATGYTFSPFLEDLVKVEDNKKV
 SLYKAMFPPHLEKPTLACIGLIQPLGSIFPTVELQARWATRVFKGVCRLPSETTMMADIARNEKRIDL
 GKSSQSQLQNTYIDYLDLALALEIGAKPDFISLLFKDPKLAVKLYFGPCNSYQYRLVGPQWEGARNAILT
 QKQRILKPLKTRTLQTSASAPVSLIKVLGLLAIIVLAFFFLHGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

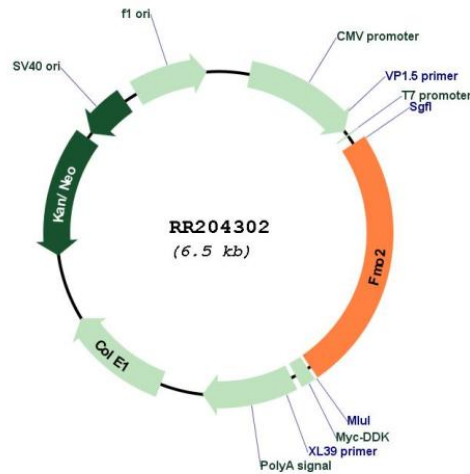
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_144737

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:

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_144737.2](#), [NP_653338.2](#)

RefSeq Size: 2040 bp

RefSeq ORF: 1608 bp

Locus ID: 246245

UniProt ID: [Q6IRI9](#)

Cytogenetics: 13q22

MW: 60.9 kDa

Gene Summary: encodes a catalytically inactive; truncated protein [RGD, Feb 2006]