

Product datasheet for **RR200164**

Fmo4 (NM_144562) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo4 (NM_144562) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fmo4
Synonyms:	MGC93155
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR200164 representing NM_144562
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAAGAAAGTGGCAGTGATTGGAGCTGGAGTGGAGTGGCCTGTCCTCAATCAAGTGCTGCTGGACG
 AGAACCTGGAGCCTACCTGTTTTGAGAGGAGTAGTGACTTCGGCGGACTGTGGAAGTTTGCCTACTACTGT
 GCGGAGTGTAACTAAGCGTCCAGACTTCTCTGAACTGGCCAATGGGAAGTTGTACAGAGACAGAGGGC
 AAACAGGACAGAGCTGTATTTGATGCTGTTATGGTTTGCCTGGGCAATCCTGAGCCCACGTTTACCTC
 TGGAGTCTTCCCTGGAATCCATAAGTTTAAAGGACAGATCCTACACAGCCAAGAGTACAGGATTCCAGA
 TGCCTTTCGGGGCAAGCGCATCCTGGTGGTTGGTCTTGGAAACTGGCGGGGATGTCGAGTGGAGCTC
 AGTGAATAGCAGCACAGGTGTTTCTCAGCACTAGGACTGGTGCCTGGGTTTCGACGCGCTCCTCAGTTG
 GTGGCTACCTTTGAATATGATGCAGACAAGATGGCGCAACTTCTCGCACGAGTTCTGCCCTCCCGCTT
 TGTAACTGGAATCAAGAGAGGCAAATGAATAAAATATTTAACCATGAGAATATGGATTAAGCATTGCA
 AAAGGGAAAAAACCAAAATTTATTGTGAATGATGAACTACCAACTTGATCCTCTGTGGGAAAATACCA
 TGA AAAACAGCGTGAAGGATTTACAGAATCCTCTATCGTCTTTGAAGATGGGACAAATAGAGCCAAAT
 TGATGTAGTGATCTTCACTACAGGATATGAATTTTCTTTCCCTTTTGAAGAGCCTCTCAAAGCCTT
 TGCACAAAAGAAGGTCATACTATAACAAGCAGTGTTCCTCCCAAAATTTGGAGAGATCAACATTAGCCATCA
 TTGGCCTGATCAGCCTTACTGGGTCTATCTTAGTGGGCACAGAGTTCCAAGCACGGTGGGCCACGAGAGT
 ATCAAAGGGCTCTGTAATATACCTCCATCTCAGAACTGATGGCCGAAGCCATTA AAAAGGAAGAGCTC
 ATAAAAGGGGTGTGATTAAGATACCAGCCAAGCAAACACTCGACTTCATTTCTACATGGATGAGCTCA
 CTCAGTGCATAGGCGCAAGCCCAATATCCACTTCTGTTCTTAAGGACCAAGATTGGCGTGGGAAGT
 TTTCTTTGGACCATGTACCCCTTACCAATATCGCCTAATGGGCCCTGGAAGATGGGACGGAGCCAGAAAT
 GCCATCCTGACCCAGTGGGACAGGACTGTGAAACCACTAAAGACTCGAACTGTTCCCTAAGTCCCAGGAGC
 CTGCCCTCCTCACGTTACTTAAAACTTGGGGGCACCTGTCTGATTGTCTCTCTTTTACTTATCTA
 CAAGTCTTCACTGTTTCTTGAAGTGGTCAAAAGTAAAGTCAAGGAAGTTTTCCCTTCCCGAATACTG
 TGGTACATCCCCCAGAACTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200164 representing NM_144562
 Red=Cloning site Green=Tags(s)

MAKKVAVIGAGVSGLSSIKCLDENLEPTCFERSSDFGGLWKFATTVRSVTKRPDFSETGQWEVVTETEG
 KQDRAVFDAMVCTGQFLSPRLPLESFPGIHKFKGQILHSQEYRIPDAFRGKRILVVGLGNTGGDVAVEL
 SGIAAQVFLSTRTGAWVRSRSSVGGYPLNMMQTRWRNFLARVLP SRFVSWNQERQMNKIFNHENYGLSIA
 KGKKPKFIVNDELPTCILCGKITMKTSVKDFTESSIVFEDGTIEANIDVVIFFTGYEFSFPFFEEPLKSL
 CTKKVILYKRVFPPNLERSTLAIIGLISL TGSILVGTQARWATRVFKGLCNIPPSQKLMAEAIKKEEL
 IKRGVIKDTSDQKLDLISYMDL TQCIGAKPNIPLLFLKDPRLAWEVFFGPCTPYQYRLMGPGRWDGARN
 AILTQWDRTVKPLKTRTVPKSQEPASLSRYLKTWGAPVLIVSLLLIYKSSLFLELVQSKLQGRFSPSRIL
 WYIPQNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

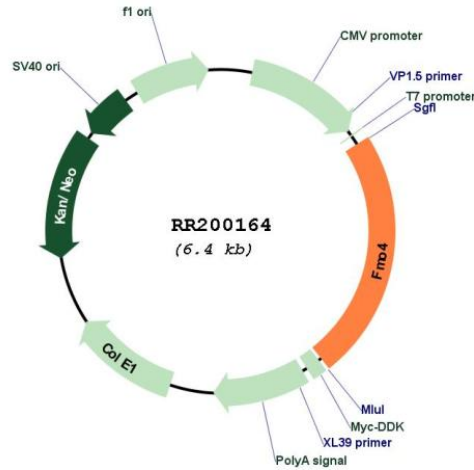
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_144562

ORF Size: 1491 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_144562.1](#), [NP_653148.1](#)

RefSeq Size: 1640 bp

RefSeq ORF: 1494 bp

Locus ID: 246247

Cytogenetics: 13q22

MW: 56 kDa

Gene Summary: This protein is involved in the oxidative metabolism of a variety of xenobiotics such as drugs and pesticides.[UniProtKB/Swiss-Prot Function]