

Product datasheet for **RR200165**

Fmo4 (NM_144561) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo4 (NM_144561) 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



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ORF Nucleotide Sequence:

>RR200165 representing NM_144561
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAGAAAGTGGCAGTGATTGGAGCTGGAGTGGCTGTCTCAATCAAGTGGCTGCTGGACG
 AGAACCTGGAGCCTACCTGTTTTGAGAGGAGTAGTGACTTCGGCGGACTGTGGAAGTTTGCCTGAAGCATC
 TGAGGATGGAATGACCAGGGTTTACAGGTCAGTACGACAAATGTCTGCAAGGAAATGTCATGTTACAGT
 GACTTCCCATTCCACGAAGATTACCCCAATTTTCATGAGCCATGAGAAATCTGGGACTATCTCAGAGAAT
 TTGCTGAGCACTTCGGCCTCCTGAAATATATTCGGTTTAAAGTACTGTGCGGAGTGAACCTAAGCGTCC
 AGACTTCTCTGAAACTGGCCAATGGGAAGTTGTACAGAGACAGAGGGCAAACAGGACAGAGCTGTATTT
 GATGCTGTTATGGTTTGCAGTGGCAATTCCTGAGCCACGTTTACCTCTGGAGTCTTCCCTGGAATCC
 ATAAGTTTAAAGGACAGATCCTACACAGCCAAGAGTACAGGATCCAGATGCCTTTGGGGCAAGCGCAT
 CCTGGTGGTTGGTCTTGGAAACTGGCGGGATGTCGAGTGGAGTCTAGTGAATAGCAGCACAGGTG
 TTTCTCAGCACTAGGACTGGTGCCTGGTTTCGAGCCGCTCCTCAGTTGGTGGCTACCCTTTGAATATGA
 TGCAGACAAGATGGCGCAACTTCTCGCACGAGTTCTGCCCTCCCGCTTTGTAAGCTGGAATCAAGAGAG
 GCAAAATGAATAAAATATTTAACCATGAGAACTATGGATTAAGCATTGCAAAAAGGGAAAAACCAAAATTT
 ATTGTGAATGATGAACTACCAACTTGTATCCTCTGTGGGAAAAACCATGAAAACAGCGTGAAGGATT
 TTACAGAACTCTATCGTCTTTGAAGATGGGACAATAGAAGCCAACATTGATGTAGTGATCTTCACTAC
 AGGATATGAATTTCTTTCCCTTTTTGAAGAGCCTCTCAAAGCCTTTCACAAAAGAAGGTACTACTA
 TACAAGCGAGTGTTCCTCCCAATTTGGAGAGATCAACATTAGCCATCATTGGCCTGATCAGCCTTACTG
 GGTCATCTTAGTGGGCACAGAGTTCCAAGCACGGTGGGCCACGAGAGTATCAAAGGGCTCTGTAATGA
 ACCTCCATCTCAGAAACTGATGGCCGAAGCCATTAAGGGAAGAGCTCATTAAAAGGGGTGTATTAA
 GATACCAGCCAAGACAACTCGACTTCATTTCTACATGGATGAGCTCACTCAGTGCATAGGCGCGAAGC
 CCAATATTCAGTCTGTCTTAAAGACCAAGATTGGCGTGGGAAAGTTTCTTTGGACCATGTACCCC
 TTACCAATATCGCCTAATGGCCCTGGAAGATGGGACGGAGCCAGAAATGCCATCCTGACCCAGTGGGAC
 AGGACTGTGAAACCACTAAAGACTCGAACTGTTCTTAAGTCCCAGGAGCCTGCCTCCCTCTCACGTTACT
 TAAAACCTGGGGGCACCTGCTCTGATTGTCTCTTTTACTTATCTACAAGTCTTCACTGTTTCTTGA
 ACTGGTCAAAGTAAGCTGCAAGGAAGTTTTCCCTTCCCGAATACTGTGTACATCCCCAGAAGTCA

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RR200165 representing NM_144561
 Red=Cloning site Green=Tags(s)

MAKKVAVIGAGVSGLSSIKCLDENLEPTCFERSSDFGGLWKF AEASEDGMTRVYRSLVTNVCKEMSCYS
 DFPFHEDYPNFMSSHEKFDYLREFAEHFGLLKYIRFKTTVRSVTKRPFDFSETGQWEVVTETEGKQDRAVF
 DAVMVC TGQFLSPRLPLESFPGIHKFKGQILHSQEYRIPDAFRGKRILVVGLGNTGGDVAVELSGIAAQV
 FLSTRTGAWVRSRSSVGGYPLNMMQTRWRNFLARVLPFRFVSWNQERQMNKIFNHENYGLSIAGKPKPF
 IVNDELPTCILCGKITMKTsvkdfTESSIVFEDGTIEANIDVVFITTYEF SFPFFEEPLKSLCTKKVIL
 YKRVFPPNLERSTLAIIGLISLTGSILVGTQFARWATRVFKGLCNIPPSQKLMAEAIKKEELIKRGVIK
 DTSQDKLDFISYDEL TQCIGAKPNIPLFLKDPRLAWEVFFGPCTPYQYRLMGPGRWDGARNAILTQWD
 RTVKPLKTRTPKSPQEPASLSRYLKTWGAPVLIVSLLLIYKSSLFLELVQSKLQGRFSPSRILWYIPQNS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

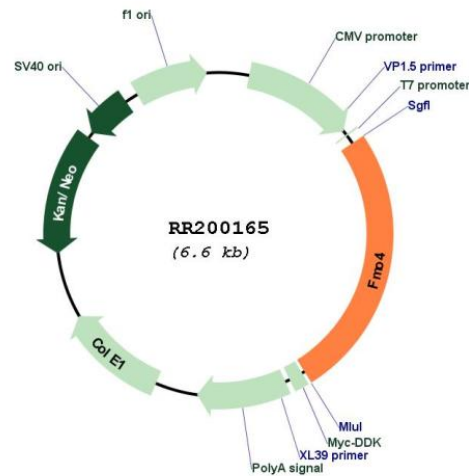
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_144561
ORF Size:	1680 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_144561.2 , NP_653147.1
RefSeq Size:	2307 bp
RefSeq ORF:	1683 bp
Locus ID:	246247
UniProt ID:	Q8K4B7
Cytogenetics:	13q22
MW:	63.7 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]