

Product datasheet for **RR212975**

Fmo1 (NM_012792) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fmo1 (NM_012792) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fmo1
Synonyms:	RFMO1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR212975 representing NM_012792
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGAAGCAGTTGCAATTGTGGGAGCTGGGGTCACTGGCCTGGCCTCCATCAAGTGCTGCCTGGAAG
 AAGGACTAGAACCACCTGCTTCGAGAGAAGCTGTGACTTGGGAGGACTTTGGAGATTCACGGAACATGT
 TGAAGAAGGAAGAGCCAGCCTTTACAACCTCAGTGGTTTCTAACAGCAGCAAGGAGATGTCTTGTACTCC
 GATTTCCCTTTTCCAGAAGACTACCCAACTTTGTGCCAAATTCTCTGTTCTGGAATATCTCCAGCTGT
 ATGCAACCCAGTTCAACCTTCTGAGATGCATCTATTTCAACACCAAAGTGTGCAGTATAACAAAACGCC
 AGATTTGCTGTCTCTGGACAATGGGAAGTGGTCACTGTCTGCAAGGGAAGCAAAGCTCAGACACCTTT
 GCTGCTGCATGGTCTGCACTGGGTTTCTAACTAACCCACATCTGCCCTGGATTCTTTCCAGGCATAC
 AAACTTTTAAGGGGCAGTACTTCCACAGCCGGCAGTATAAACATCCAGACGTATTTAAGGACAAGCGAGT
 CCTTGTGGTTGGAATGGGAAATTCTGGTACAGACATTGCCGTGGAGGCCAGTCACTTAGCGAAAAAGGTG
 TTTCTCAGCACACCAGGAGGGGCATGGGTGATCAGCCGAGTCTTTGATTACAGGTACCCCTGGGACATGA
 TATTCATGACCGGATTTAGAACATGCTCAGAAATCTTCTCCAACTCCAGTTGTGAGTTGGTTGATATC
 AAAGAAGATGAACAGCTGGTTCAACCACGTGAATTACGGTGTGGCTCCAGAAGACAGGACTCAGCTGAGA
 GAGCCTGTGCTGAATGATGAGCTCCAGGCCGATCATCACTGGGAAAGTGTGATCAAGCCAGCATCA
 AGGAGGTGAAAGAAAACCTCTGTCGTCTTAAACAATACACCGAAGGAGGAGCCTATTGACGTCATCGTCTT
 TGCCACTGGATACTCCTTTGCGTTCCCTTCTCGATGAATCAATAGTAAAAGTTGAGGATGGCCAGGCA
 TCACTGTACAAGTACATCTTCCCGGCACATCTGCCAAAACCAACTCTGGCCGTGATTGGCCTCATCAAC
 CCCTGGGTTCCATGATACCCACAGGAGAGACACAAGCTCGATGGGTTGTTGAGTCTGAAAGGTGCGGAC
 TACATTACCACCCCGAGTGTGATGAAAGAAGTCAATGAACGGAAGAAGAACAAGCATAGCGGATTT
 GGCTTGTGCTACTGCAAGGCTTTGCAATCCGATTACATAACGTACATAGATGACCTCCTGACCTCGATCA
 ACGAAAACCGGACCTGCGGGCCATGCTCCTGACTGACCCACGCCTGGCTCTGAGCATCTTCTTCGGCCC
 ATGCACACCTTACCATTTCGCTGACTGGTCCAGGAAAGTGGGAAGGAGCCAGAAAGGCCATCTTGACC
 CAGTGGGACCGAACAGTGAACGTACCAAACTCGAACCGTACAAGAAACCCATCTACCTTTGAAACTT
 TGCTTAACTCTTAGTTTTCTGGCTTTGCTTGTGGCTGTTTTCTTTATTTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212975 representing NM_012792
 Red=Cloning site Green=Tags(s)

MVKRVAIVGAGVSLASIKCCLEEGLEPTCFERSCDLGLLWRFTEHVEEGRASLYNSVVSNSKEMSCYS
 DFPFPEDYPNFPVNSLFLEYLQLYATQFNLLRCIYFNKVCISITKRPDFAVSGQWEVVTVCGKQSSDTF
 AAVMVCTGFLTNPHLPLDSFPGIQTFKGQYFHSRQYKHPDVFKDKRVLVVGMGNSGTDI AVEASHLAKKV
 FLSTTGGAWVISRVFDSGYPWDIMFMRFNQMLRNLLPTPVVSWLISKKMNSWFNVNYGVAPEDRTQLR
 EPVLNDELPGRIITGKVLIKPSIKEVKENSVVFNNTPKKEEPIDVIVFATGYSAFPFLDESIVKVEDGQA
 SLYKYIFPAHLPKPTLAVIGLIKPLGSMIPTGETQARWVQVVKGATLPPPSVMMKEVNERKKNKHSGF
 GLCYCKALQSDYITYIDLLTSINAKPDLRAMLLTDPRLALSIFFGPCTPYHFRLTGPGKWEKARKAILT
 QWDRTVNVTKRTRVQETPSTFETLLKLSFLALLVAVFFIFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_012792

ORF Size: 1596 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_012792.1](#), [NP_036924.1](#)

RefSeq Size: 2042 bp

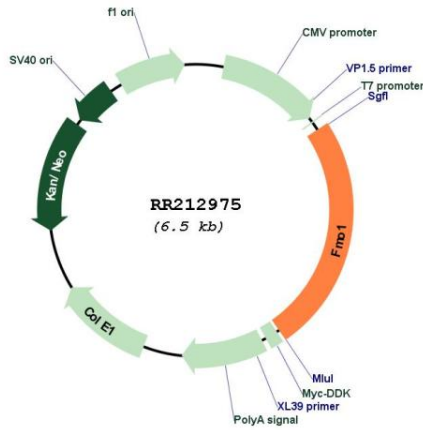
RefSeq ORF: 1599 bp

Locus ID: 25256

UniProt ID: [P36365](#)

Cytogenetics: 13q22
MW: 59.8 kDa
Gene Summary: catalyzes thiobenzamide S-oxidation; has additional S- and N-oxidation activities as well [RGD, Feb 2006]

Product images:



Circular map for RR212975