

Product datasheet for **MR230375**

Cyp4f14 (NM_001204334) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp4f14 (NM_001204334) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp4f14
Synonyms:	1300014O15Rik; cyp4f-14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230375 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCACAGCTGAGCCTGTCCTGGTTGGGACTGGGGCCGAGGTGGCCTCCCATGGAAGACCCTGCTAC
 TGCTTGGGGCCTCCTGGATCCTGGCCCGATTCTGATCCAGATCTATGCTGCCTATAGGAACTATCGTCA
 CCTCCATGGCTTCCCTCAGCCCCCAAACGGAAGTGGCTTATGGGTACGTTGGGCATGGTAACTCCTACA
 GAGCAGGGCTTGAAGGAATTGACTCGTTTGGTGGGTACCTACCCCAAGGTTTTTGGATGTGGATTGGAC
 CAATGGTCCCTGTTATTACTCTATGCCATTCTGACATCGTCCGATCTATCCTCAATGCCTCAGCCGCTGT
 TGCCTCAAGGATGTGATATTCTACAGCATCCTAAAGCCTTGGCTGGGGGATGGGCTCTTGGTGAAGTGT
 GGTGACAAGTGGAGCCGCATCGTCGCATGCTGACACCCGCTTCCATTTCAACATCCTGAAGCCCTATG
 TGAAGATTTTCAACGATAGCACCAACATCATGCACGCAAGTGGCAACGGTTGATTTAGATGGCAGTGC
 CCGTCTGGACATGTTTGGACAGTGCAGCCTGATGACTCTGGATAGTCTGCAGAAATGTGTCTTCAGCTTT
 GACAGCAACTGTGAGGAGAAGTCCAGTGAATATATTGCTGCCATCCTGGAGCTCAGTGCCCTAGTGGCCA
 AAAGGCACCAGCAGCCTTTGATGTTTATGGACCTGCTGTATAATCTCACCCCTGATGGTATGCGCTTCCG
 TAAGGCCTGCAACGTGGTGCATGAATCACTGATGCTGTATCCGGGAGCGGCACCCGACCTCCAGAT
 CAGGGTTTGGATGACTTCCCTAAGTCTAAGGCCAAGTCCAAGACTTTGGATTTTATTGATGTGCTGCTGC
 TGAGCAAGGATGAAGATGGAAAGGAGCTGTGAGATGAGGACATCCGAGCAGAGGCTGACACCTTCATGTT
 TGAGGGCCATGACACGACAGCCAGTGGACTCTCCTGGATCCTCTACAACCTGGCAAGGCACCCAGAATAC
 CAGGAGCGCTGCCGCGAGGAAGTTCAGGAGCTGCTGAGGGCCGAGAGCCTGAGGAGATTGAATGGGACG
 ACCTGGCCAGCTACCTTCTGACCATGTGCATCAAGGAGAGTCTGCGACTGCATCCCCAGTCCCGGT
 CATCTCCCGATGCTGCACCCAGGACATTCTGCTCCAGATGGCCGACCATTCCCAAGGTATCATCTGT
 CTCATCAGCATCTTTGGAATTCATCACAACCCATCCGTGTGGCCAGACCTGAGGTCTATGACCCCTTCC
 GCTTTGACCTGAAAACATCAAAGACAGCTCACCTCTGGCATTATTCCTTCTCGGCGGGACCCAGGAA
 CTGCATAGGACAGACTTTCGCCATGAGTGAAGTGGCACTGGCGTGACGCTGCTGCGCTCCGA
 CTCCTACCGATGACAAGGAGCCGCGCAGGACAGCTGATCCTGCGCGCAGAGGGCGGCTGTGGC
 TCGGGTGGAGCCGCTGAGCGCGGGCGCTCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230375 protein sequence
 Red=Cloning site Green=Tags(s)

MSQLSLSWLGLGPEVAFPWKTLTLLGASWILARILIQIYAAAYRNYRHLHGFPQPPKRNWLMGHVGMVPT
 EQGLKELTRLVGTYPQGLMWIGPMVPVITLCHSDIVRSILNASAAVALKDVIYFYSILKPWLGDLLVSA
 GDKWSRHRMLTPAFHFNLPYKIFNDSTNIMHAKWQRLISDGSARLDMFEHVSLMTLDSLQKCVFSF
 DSNCQEKSSSEYIAAILELSALVAKRHQQPLMFDLLYNLTPDGMFRKACNVVHEFTDAVIRERHRTLDP
 QGLDDFLKSKAKSKTLDFIDVLLLKSKDEDGKELSDIEDIRAEADTFMFEHDTTASGLSWILYNLARHPEY
 QERCQEVQELLRGPEEEIEWDDLAQLPFLTMCIKESLRLHPPVTVISRCCTQDILLPDGRTIPKGIIC
 LISIFGIHNPVWPDPVEYDPRFRDPENIKDSSPLAFIPFSAGPRNCIGQTFAMSEMVALALTLRFR
 LLPDDKEPRRQPELILRAEGLWLRVEPLSAGAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


ACCN: NM_001204334

ORF Size: 1572 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_001204334.1](#), [NP_001191263.1](#)
RefSeq Size: 2051 bp

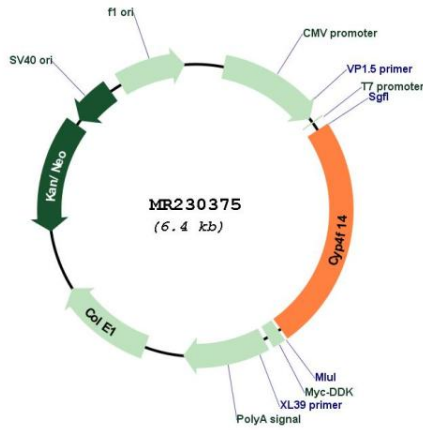
RefSeq ORF: 1575 bp

Locus ID: 64385

UniProt ID: [Q9EP75](#)

Cytogenetics: 17 B1
MW: 59.8 kDa
Gene Summary: Cytochromes P450 are a group of heme-thiolate monooxygenases. Catalyzes the omega-hydroxylation of LTB4 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230375