

Product datasheet for **MR208397**

Cyp4f14 (NM_022434) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Cyp4f14
Synonyms:	I300014O15Rik; cyp4f-14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR208397 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTACAGCTGAGCCTGTCCTGGTTGGGACTGGGGCCGAGGTGGCCTTCCCATGGAAGACCCTGCTAC
 TGCTTGGGGCCTCCTGGATCCTGGCCCGGATTCTGATCCAGATCTATGCTGCCTATAGGAACATCGTCA
 CCTCCATGGCTTCCCTAGCCCCCAACGGAAGTGGCTTATGGGTACGTTGGGCATGGTAACTCCTACA
 GAGCAGGGCTTGAAGGAATTGACTCGTTTGGTGGGTACCTACCCCCAAGGTTTTTGTATGTGGATTGGAC
 CAATGGTCCCTGTTATTACTCTATGCCATTCTGACATCGTCCGATCTATCCTCAATGCCTCAGCCGCTGT
 TGCACCTCAAGGATGTGATATTCTACAGCATCCTAAAGCCTTGGCTGGGGGATGGGCTCTTGGTGAGTGT
 GGTGACAAGTGGAGCCGCCATCGTCGATGCTGACACCCGCTTTCATTCAACATCCTGAAGCCCTATG
 TGAAGATTTTCAATGATAGCACCAACATCATGCACGCCAAGTGGCAACGGTTGATTTTCAAGTGGCAGTGC
 CCGTCTGGACATGTTTGGACAGTCAAGCTGATGACTCTGGATAGTCTGCAGAAATGTGTCTTCAGCTTT
 GACAGCAACTGTGACGAGAAAGTCCAGTGAATATATTGCTGCCATCCTGGAGCTCAGTGCCCTAGTGGCCA
 AAAGGCACAGCAGCCTTTGATGTTTCAATGACCTGCTGTATAATCTCACCCCTGATGGTATGCGCTTCCG
 TAAGGCCTGCAACGTGGTGCATGAATTCATGATGCTGTATCCGGGAGCGGCACCGCACCCTCCAGAT
 CAGGGTTTGGATGACTTCTTAAGTCTAAGGCCAAGTCCAAGACTTTGGATTTTATTGATGTGCTGCTGC
 TGAGCAAGGATGAAGATGGAAAGGAGCTGTGAGATGAGGACATCCGAGCAGAGGCTGACACCTTCATGTT
 TGAGGGCCATGACACGACAGCCAGTGGACTCTCCTGGATCCTCTACAACCTGGCAAGGCACCCAGAATAC
 CAGGAGCGCTGCCGGCAGGAAGTTCAGGAGCTGCTGAGGGGCCGAGAGCCTGAGGAGATTGAATGGGACG
 ACCTGGCCAGCTACCTTCTGACCATGTGCATCAAGGAGAGTCTGCGACTGCATCCCCAGTCAAGGT
 CATCTCCCGATGCTGCACCCAGGACATTCTGCTCCAGATGGCCGGACCATCCCAAAGGTATCATCTGT
 CTCATCAGCATCTTTGGAATTCATCACAACCCATCCGTGTGGCCAGACCCTGAGGTCTATGACCCCTTCC
 GCTTTGACCTGAAACATCAAAGACAGCTCACCTCTGGCATTATTCCCTTCTCGGCGGGACCCAGGAA
 CTGCATAGGACAGACTTTGCCATGAGTGAGATGAAGGTGGCACTGGCGCTGACGCTGCTGCGCTTCCGA
 CTCCTACCGGATGACAAGGAGCCGCGCAGGCAGCAGCTGATCCTGCGCGCAGAGGCGGGCTGTGGC
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 ACAAGGATGACGACGATAAGGTTTAA

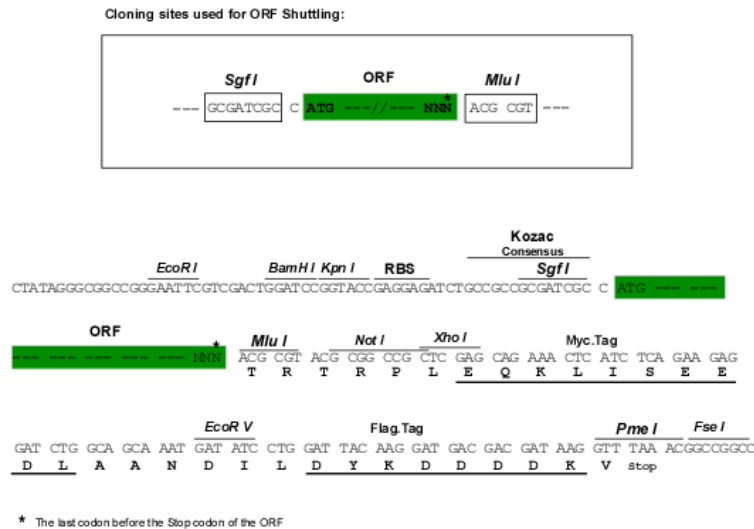
Protein Sequence: >MR208397 protein sequence
 Red=Cloning site Green=Tags(s)

MSQLSLSWLGLGPEVAFPWKTLILLGASWILARILIQIYAAYRNYRHLHGFPQPPKRNWLMGHVGMVPTPT
 EQGLKELTRLVGTYPQGFLLMWIGPMVPVITLCHSDIVRSILNASAAVALKDVFYSILKPWLGDGLLVSA
 GDKWSRHRMLTPAFHFNLKPYVKIFNDSTNIMHAKWQLISDGSARLDMFEHVSMTLDSLQKCVFSF
 DSNCQEKSSSEYIAAILELSALVAKRHQQPLMFMDLLYNLTPDGMFRKACNVVHEFTDAVIRERHRTLDP
 QGLDDFLKSKAKSKTLDFIDVLLLSKDEGKELSDIEDIRAEADTFMEGHDTTASGLSWILYNLARHPEY
 QERCRCQEVQELLRGPEEIEWDDLAQLPFLTMCIKESLRHPPVTVISRCCTQDILLPDGRTIPKGIIC
 LISIFGIHHNPSVWPDPEVYDPFRFDPENIKDSSPLAIPFSAGPRNCIGQTFAMSEMKVALALTLLRFR
 LLPDDKEPRRQPELILRAEGLWLRVEPLSAGAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022434

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_022434.1](#), [NM_022434.2](#), [NP_071879.1](#)

RefSeq Size: 2225 bp

RefSeq ORF: 1575 bp

Locus ID: 64385

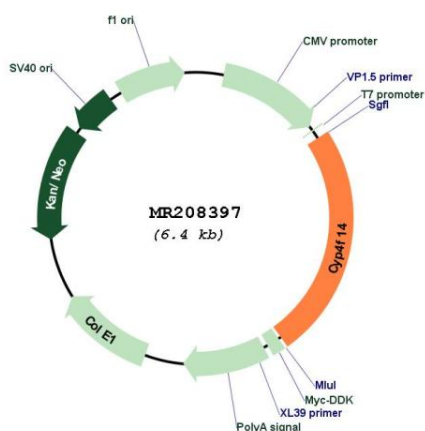
UniProt ID: [Q9EP75](#)

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 MR208397