

Product datasheet for **MG208397**

Cyp4f14 (NM_022434) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp4f14 (NM_022434) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyp4f14
Synonyms:	1300014O15Rik; cyp4f-14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208397 representing NM_022434
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCACAGCTGAGCCTGTCCTGGTTGGGACTGGGGCCGAGGTGGCCTCCCATGGAAGACCCCTGCTAC
 TGCTTGGGGCCTCCTGGATCCTGGCCCGATTCTGATCCAGATCTATGCTGCCTATAGGAACTATCGTCA
 CCTCCATGGCTTCCCTCAGCCCCCAAACGGAAGTGGCTTATGGGTACGCTGGGCATGGTAACTCTACA
 GAGCAGGGCTTGAAGGAATTGACTCGTTTGGTGGGTACCTACCCCAAGGTTTTTGGATGTGGATTGGAC
 CAATGGTCCCTGTTATTACTCTATGCCATTCTGACATCGTCCGATCTATCCTCAATGCCTCAGCCGCTGT
 TGCCTCAAGGATGTGATATTCTACAGCATCTAAAGCCTTGGCTGGGGGATGGGCTCTTGGTGGTGTCT
 GGTGACAAGTGGAGCCGCATCGTCGCATGCTGACACCCGCTTCCATTTCAACATCCTGAAGCCCTATG
 TGAAGATTTTCAATGATAGCACCAACATCATGCACGCAAGTGGCAACGTTGATTTGATGGCAGTGC
 CCGTCTGGACATGTTTGGACAGCTCAGCCTGATGACTCTGGATAGTCTGCAGAAATGTGTCTTCAGCTTT
 GACAGCAACTGTGAGGAGAAGTCCAGTGAATATATTGCTGCCATCCTGGAGCTCAGTGCCCTAGTGGCCA
 AAAGGCACCAGCAGCCTTTGATGTTTCATGGACCTGCTGTATAATCTCACCCCTGATGGTATGCGCTTCCG
 TAAGGCCTGCAACGTGGTGCATGAATTCATGATGCTGTGATCCGGGAGCGGCACCCGACCCCTCCAGAT
 CAGGGTTTGGATGACTTCCTTAAGTCTAAGGCCAAGTCCAAGACTTTGGATTTTCATTGATGTGCTGCTGC
 TGAGCAAGGATGAAGATGGAAAGGAGCTGTGAGATGAGGACATCCGAGCAGAGGCTGACACCTTCATGTT
 TGAGGGCCATGACACGACAGCCAGTGGACTCTCCTGGATCCTCTACAACCTGGCAAGGCACCCAGAATAC
 CAGGAGCGCTGCCGCGAGGAAGTTCAGGAGCTGCTGAGGGCCGAGAGCCTGAGGAGATTGAATGGGACG
 ACCTGGCCAGCTACCTTCTGACCATGTGCATCAAGGAGAGTCTGCGACTGCATCCCCAGTCCCGATCAGCT
 CATCTCCCGATGCTGCACCCAGGACATTCTGCTCCAGATGGCCGACCATTCCCAAAGGTATCATCTGT
 CTCATCAGCATCTTTGGAATTCATCACAACCCATCCGTGTGGCCAGACCCGAGGTCTATGACCCCTTCC
 GCTTTGACCTGAAAACATCAAAGACAGCTCACCTCTGGCATTATTCCTTCTCGGCGGGACCCAGGAA
 CTGCATAGGACAGACTTTCGCCATGAGTGAAGTGGCACTGGCGCTGACGCTGCTGCGCTTCCGA
 CTCCTACCGATGACAAGGAGCCGCGCAGGACAGCTGATCCTGCGCGCAGAGGGCGGGCTGTGGC
 TGCGGGTGGAGCCGCTGAGCGCGGGCGCTCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208397 representing NM_022434
 Red=Cloning site Green=Tags(s)

MSQLSLSWLGLGPEVAFPWKTLTLLLGASWILARILIQIYAAYRNYRHLHGFPQPPKRNWLMGHVGMVPT
 EQGLKELTRLVGTYPQGFMLMWIGMPVITLCHSDIVRSILNASAAVALKDVIYFYSILKPWLDGLLVSA
 GDKWSRHRMLTPAFHFNILKPYVKIFNDSTNIMHAKWQRLISDGSARLDMFEHVSLMTLDSLQKCVFSF
 DSNCQEKSSSEYIAAILELSALVAKRHQQPLMFMDLLYNLTPDGMFRKACNVVHEFTDAVIRERHRTLDP
 QGLDDFLKSKAKSKTLDFIDVLLLKDEDEGKELSEDEIRAEADTFMEGHDTTASGLSWILYNLARHPEY
 QERCQEVQELLRGPEEIEWDDLAQLPFLTMCIKESLRLHPPVTVISRCCTQDILLPDGRTIPKGIIC
 LISIFGIHHNPSVWPDPEVYDPFRFDPENIKDSSPLAFIPFSAGPRNCIGQTFAMSEMIVALALTLRFR
 LLPDDKEPRRQPELILRAEGLWLRVEPLSAGAH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-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.

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

RefSeq Size: 2216 bp

RefSeq ORF: 1575 bp

Locus ID: 64385

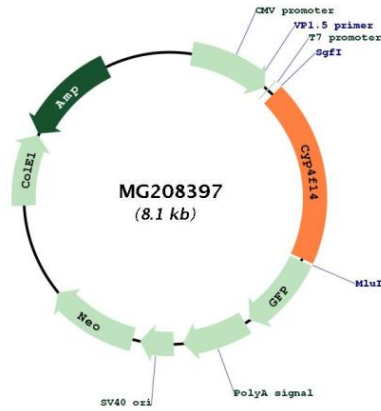
UniProt ID: [Q9EP75](#)

Cytogenetics: 17 B1

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 MG208397