

Product datasheet for **RR213991**

Cyp8b1 (NM_031241) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp8b1 (NM_031241) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp8b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR213991 representing NM_031241
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTGGGGTTCAGTGTAGGGGCCCTGCTCATGGCTGTCGGTTGCCCTCTCCTTGTGCCCCA
 GGCAACCGCAGGCCTGGGAGCCACTCTGGACAAGGGTTTGTGCCCTGGCTGGGTACACCATGGCCTT
 CCGGAAGAATATGTTTGAATTCCTGAAGGGAATGCGGGCCAAGCACGGGGACGTGTTCACTGCAGCTG
 GGAGGCCAGTACTTACCTTTGTCATGGATCCCCTCTCCTTTGGCCCCATCATTAAAGAGCACGAGAAAAG
 TGCTAGACTTCGTGACGTACGCTCGGAACTGGTGTCAAGGTGTTGGGTACCAGTCCATGGATGAGGA
 CCACCAGATGCTGCAGTAGCCAGTACCAAGCATCTGATGGGACAAGGCTTGAGGACCTCAACCGGGCC
 ATGCTGGACAGCCTGTCTTGGTATGCTAGGACCCAAAGGCCGAGTCTGGGTGCCAGGCTCTGGTGTG
 AGGACGGCCTCTCCACTTCTGCTACAGCATCTTGTTAAAGGCTGGCTTCTGAGCTTGTGGTGCAC
 CAAGGACAAGGAGCAGGACCTGGATGAGCCGATGAGCTGTTGAGGAAGTCCGCAGATTTGACCTACTT
 TCCCCAGGTTTGTCTACTCCCTGCTGGGGCCCCGAGTGGGTAGAAGTGAGCCAGCTGCAGCCTCTCT
 TCCACCAGAGACTCTCTGTGGAGCAAACTGGAGAAAAGACGGCATAAGTAACTGTTGGGCTTCATGCT
 TCGGTTTCTGAGGGAGCGAGGGATGGCTTCATCCATGCAGGACAAATTTAACTTTATGATGCTCTGGGCC
 TCCCAGGGGAACACGGGGCCACCTGTTTCTGGGCCCTCTGTTCTGCTGAAGCATCAGGACGCGATGA
 AGGCTGTGCGAGAGGAAGCCACTCGGGTCTGGGTGAGGCCAGGTTGGAAGCCGAGACATCCTTCGCTT
 CACTCTCAGTGCCTGAAATGCACTCCAGTGTGGACAGCGTGTGGAAGAGACTTTCGCTCTGTGCC
 ACCCCACCTCTCGGGTGGTGCAGGAGGATTATGTCTAAAGATGGCCAGTGGGCAAGAGTACCAGA
 TCCGCCGTGGAGATAAGGTGGCTCTTCCCCTATCTCTCAGTACACATGGACCCGACATCCATCCCA
 GCCACGACCTTCAAGTACAATCGGTTCCCTCAACCTGATGGCACCCGAAAGTGGACTTCTACAAGTCA
 GGCAAGAAGATCCACCACTACAACATGCCTGGGGTTCGGGTGTCTCATATGTCCCGCAGGTTCTTTG
 CCCCCAGTGAGATGAAGACCTTTGCTCTCTTATGGTCATGACTTTGACTTTGAACTGGTGGACCTGA
 CATGCCTGTGCCCTATCGACCAAGGCCTGGGGCTTCGGCACCTCCCAGCCAGCCATGAGGTACGC
 TTTGCTACCGCCTGAAGCCATGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213991 representing NM_031241
 Red=Cloning site Green=Tags(s)

MLWGSVLGALLMAVGCLCLSLPRHRPWEPPLDKGFVPWLGHMFAFRKNMFEFLKGMRAKHGDVFTLQL
 GGQYFTFVMDPLSFGPIIKSTQKVLDFVTYARELVFKVFGYQSMDEHQMLHVAStKHLMGQGLDLNRA
 MLDSLVLVMLGPKGRSLGARSWCEDGLFHFYCYSILFKAGFLSLFGCTKDKEQDLDEADELFRKFRFDLL
 FPRFVYSLGPLEWVEVSQLQRLFHQRLSVEQNLEKDGISNWLGFMLRFLRERGMASMQDKFNFMMLWA
 SQNGTGPFCFWALLFLLKHQDAMKAVREEATRVLGEARLEAETSFAFTLSALKCTPVLDSVMEETLRLCA
 TPTLLGVVQEDYVLKMASGQEYQIRRGDKVALFPYLSVHMDDPIHPEPTTFKYNRFLNPDGTRKVDYFKS
 GKKIHHYNMPWGSVSI CPGRRFFAPSEMKT FVLLMVMYDFELVDPMPVPPIDPRRWGFGTSQPSHEVR
 FRYRLKPMQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_031241

ORF Size: 1497 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_031241.1](#), [NP_112520.1](#)

RefSeq Size: 1965 bp

RefSeq ORF: 1500 bp

Locus ID: 81924

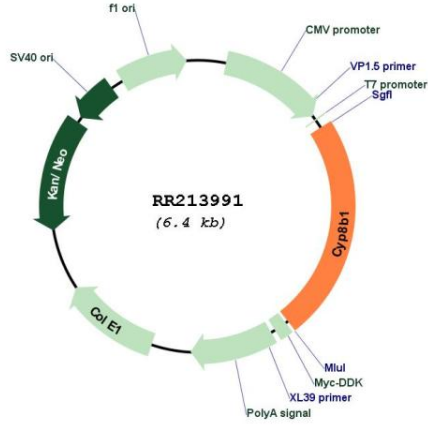
Cytogenetics: 8q32

MW: 57.6 kDa

Gene Summary:

member of the cytochrome P450 enzyme superfamily; endoplasmic reticulum membrane protein; plays a role in sterol metabolism; human homolog is unique among cytochrome P450 genes in that it is intronless [RGD, Feb 2006]

Product images:



Circular map for RR213991