

Product datasheet for **RR205166**

Cyp1b1 (NM_012940) Rat Tagged ORF Clone

Product data:

| | |
|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Cyp1b1 (NM_012940) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Cyp1b1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR205166 representing NM_012940
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCAGCCTTAGTGCAGACAGTCCACAGCAGCTGAGCTCGCTGTCTACCCAACAGACCATTCTTC
 TGCTACTCGTTTTCGGTCCTGGCCATCGTCACTTAGGCCAGTGGCTGCTGCGCCAGTGGCGACGAAACC
 GTGGTCTCGCCCCGGGTCCCTTTCTTGCCATTGATCGGAAACGCGCGCTCTGTTGGCCGGGATCG
 CACTTGTACTTCGCTCGCCTTGGCAGGCGCTATGGCGACGTTTTTCAGATCCGTCTGGGAGCTGTCCCG
 TGGTGGTGTGAATGGCGAGAGTGCCATCCATCAGGCTCTGGTGCAGCAGGGCGGCGTCTTTGCGGACCG
 GCCTCCCTTCGCCTCTTCCGTGTGGTGTCTGGTGGCCGACGCTGGCGTTGGCCACTACTCAGAGCGC
 TGAAGGAGCGGCGACGTGCAGCCTATGGCAGATGCGTGCCTTCCACCCGCCACCCGCGCAGCCGCG
 GTCTCTCGAGGGCCACGCGCTGGGAGAGGCTCGAGAGTTGGTGGCAGTGTGGTGGCGGCTGCGCCGG
 TGGCGCCTGCCTCGATCCGACGACCCGATCATAGTGGCGGTGGTAATGTCATGAGCGTGTATGCTTC
 GGCTGTGGTACAACCACGACGATGCCGAGTTCCTGGAGCTGCTCAGCCACAACGAGGAGTTCGGGCGCA
 CCGTGGGCGCGGGCAGCCTGGTGGACGTGATGCCCTGGCTGCAGCTTTTTCCCAACCCGGTGGCACCAT
 CTTCCGCGAGTTCGAGCAGATCAACCGCAACTTCAGCAACTTCGTCTGGACAAGTTCCTGAGGCACCGA
 GAAAGCCTCGTGGCCGGGCTGCTCCTCGAGACATGATGGACGCCTTCATCCTCTCCGCCAAAAGAAGG
 CGACTGGGACCTGGTACAGTCCCTCCGGGCTGGATTTGGAGGATGTGCCTGCCACTATTACAGACAT
 CTTTGGAGCCAGCCAGGACACCTTTCCACCGCGCTGCTGTGGCTGCTCATCCTCTTTACCAGATACCCG
 GATGTGCAGGCCGCGTGCAGGCCGAGTTGGACCAGGTTGTGGGAGGGACCCGCTGCCCTGCATGAGTG
 ACCAACCAACTTACCATACGTCATGGCTTTTCTTTATGAATCCATGCGATTACCAGCTTTTTCCTGT
 ACCCTTCCACATGCCACCACTGCCAACACCTTTGTTTTAGGCTACTACATCCCCAAAAACAGGTAGTT
 TTTGTTAACCAAGTGGTCTGTGAATCATGACCCAGCAAAGTGGTCTAACCCAGAGGACTTTGATCCGCCCC
 GCTTCTGGACAAGGACGGCTTCATTAACAAGGCACTAGCCAGCAGCGTATGATATTTTTCAGTGGGCAA
 ACGACGGTGCATCGGCGAGGAGTTGTCTAAGACGCTTCTGTTTCTTCTCCTCCATCCTCGCTCATCAG
 TGCAATTTCAAGGCTAACAAAACGAGCCCTCAAACATGAGTTTCAGTTACGGCTGAGCATTAGCCCA
 AGTCGTTTAAAAATCCATGTGTCTCTCAGAGAGTCCATGAAGCTCCTTGATAGTGTGTGAGAAGCTGCA
 AGCTGAGGAAGCTTGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205166 representing NM_012940
 Red=Cloning site Green=Tags(s)

MATSLADSPQQLSSLSTQQTILLLLVSVLAIVHLGQWLLRQWRRKPWSSPPGPFWPLIGNAASVGRAS
 HLYFARLARRYGDVVFQIRLGSCPVVVLNGESAIHQALVQQGGVFAFRVVSNGRSLAFGHYSER
 WKERRRAAYGTMRAFSTRHPRSRGLLEGHALGEARELVAVLVRRACAGGACLDPTQPIIVAVANVMSAVCF
 GCRYNHDDAEFLELLSHNEEFGRTVGAGSLVDVMPWLQLFPNPVRTIFREFEQINRNFVSNFVLDKFLRHR
 ESLVPGAAPRDMMDAFILSAEKKATGDPGDSPLDLEDVPATITDIFGASQDTLSTALLWLLILFTRYP
 DVQARVQAEVDQVGRDRLPCMSDQPNLPYVMAFLYESMRFTSFLPVTLPHATTANTFVLGYIIPKNTVV
 FVNQWSVNHDPKWSNPEDFDPARFLDKDGFINKALASSVMIFSVGKRRICIGEELSKTLLFLFISILAHQ
 CNFKANQNEPSNMSFSYGLSIKPKSFKIHSVLSRESMKLLDSSAVEKLAEEACQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

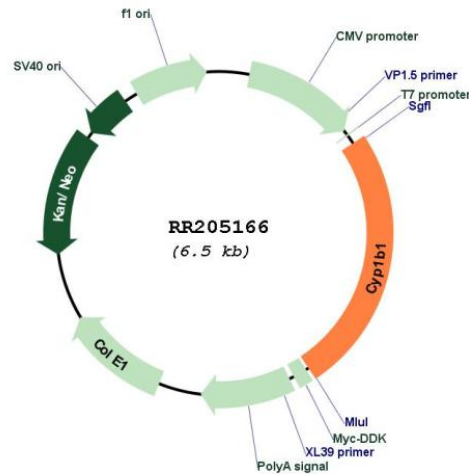
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



| | |
|------------------------|--|
| ACCN: | NM_012940 |
| ORF Size: | 1629 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_012940.2](#), [NP_037072.1](#)

RefSeq Size: 2321 bp

RefSeq ORF: 1632 bp

Locus ID: 25426

UniProt ID: [Q64678](#)

Cytogenetics: 6q11

MW: 60.6 kDa

Gene Summary: plays a role in polycyclic aromatic hydrocarbon metabolism in adrenal microsomes [RGD, Feb 2006]