

## Product datasheet for **RR204118**

### Cyp7b1 (NM\_019138) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp7b1 (NM_019138) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp7b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR204118 representing NM\_019138  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGGGAGCCACGACCCAGATGCCGCTTCGCCGGGCTCTCTCCCTACTAGGCCTTCTTTTGGC  
 TCACCTTGCTGCTCCAGTCCTGTTCTCTCACCCGGCGCACAAAGCGTCTTGTGAACCTCCCTTGAT  
 AAAAGGTTGGATTCTTATCTTGGCATGGCCCTGAAATTCGGAAGGATCCGTTAGCTTTCTTGCAACT  
 CTTCAAAGGCAATGTGGTGACACTTTCCTGTCTTACTTGGAGGGAAGTATATAACATTTGTTCTGAACC  
 CTTTCCAGTACCAGTATGTAATGAAAAACCAAAACAATAAGCTTTGAGAAGTTCAGCCGAAGATTATC  
 AGCGAAAGCCTTCTGTCAAGAAGCTGCTAACTAATGACGACCTTAGCAATGACATTCACAGAGGCTAT  
 CTTCTTTTACAAGGCAATCTCTGGATGGTCTTCTGGAAACCATGATCCAAGAAGTAAAAGAAATATTTG  
 AGTCCAGACTGCTAAAACACAGATTGGAATACAGCAAGAGTATTTGATTTCTGTAGTTCCTGGTATT  
 TGAAATCACATTTACAATATATGAAAAATCTTGTCTGCTAACAAAAACAATTATCAGTGAGCTG  
 AGGGATGATTTTTAAAAATTTGATGACCATTTCCCATACTTAGTATCTGCATACCTATTAGCTTCTAA  
 GAAATGCAGAATTTATGCAGAAGAAAATATAAAATGTCTCACACCAGAAAAAGTAGCTCAGATGCAAG  
 ACGGTCAGAAATGTTCCAGGAGAGGCAGGAGATGCTGAAAAATACTACGGGCATGAAGAGTTTGAATA  
 GGAGCACATCATCTTGGCTTGTCTGGGCTCTTAGCAACACCATTCAGCTATGTTCTGGGCAATGT  
 ATTATCTTCTCAGCATCCAGAAGCTATGGAAGTCTGCGTGACGAAATGACAGCTTCTGCAGTCAAC  
 AGGTCAAAGAAAGGACCTGGAATTTCTGTCCACTTCACCAGAGAACAATGGACAGCTTGGTCTGCCTG  
 GAAAGCGCTATTCTTGAGGTTCTGAGGTTGTGCTCCTACTCCAGCATCATCCGTGAAGTGAAGAGGATA  
 TGGATTTTCCAGCTCAGAGAGTAGGAGCTACCGTCTGCGGAAAGGAGACTTTGTAGCTGTCTTCTCCAAT  
 GATACACAATGACCCAGAAGCTTCGATGCTCCAAGGACTTTAGGTTTGTATCGCTTCGTAGAAGATGGT  
 AAGAAGAAAAACAACGTTTTTCAAAGGAGAAAAAAGCTGAAGAGTTACATTATACCATTTGGACTTGGAA  
 CAAGCAATGTCCAGGCAGATACTTTGCAATTAATGAAATGAAGTACTAGTGATTATACTTTTAACTTA  
 TTTTGATTTAGAAGTCATTGACACTAAGCCTATAGGACTAAACCACAGTCGCATGTTTCTGGCATTGAG  
 CATCCAGACTCTGACATCTCATTAGGTACAAGGCAAAATCTTGGAGATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR204118 representing NM\_019138  
 Red=Cloning site Green=Tags(s)

MEGATTPDAASPGPLSLLGLLFAVTL LLPVL FLLTRRTRRPCEPPLIKGWIPYLGMAKFWKDPLAFLQT  
 LQRQCGDTFTVLLGGKYITFVLNPFQYQYVMKNPKQLSFEKFSRRLSAKAFSVKKLLTNDLSDNIHRGY  
 LLLQGLDGLLETMIQEVKEIFESRLLKLDWNTARVDFCSSLVFEITFTTIYGKILAANKKQIISEL  
 RDDFLKFDHHPYLVSDIPIQLLRNAEFMQKKI IKCLTPEKVAQMQRSEIVQERQEMLKKYYGHEEFEI  
 GAHHLGLLWASLANTIPAMFWAMYLLQHPEAMEVLRDEIDSFLQSTGQKKGPGISVHFTRQLDSLVLCL  
 ESAILEVLRCSYSSIIREVQEDMDFSSERSYRLRKGDFVAVFPPMIHNDPEVFDAPKDFRFRDFVEDG  
 KKKTTFFKGGKLSYIIPFGLGTSKCPGRYFAINEMKLLVIIILLTYFDLEVIDTKPIGLNHSRMFLGIQ  
 HPDSDISFRYKAKSWRS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_019138

ORF Size: 1521 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\\_019138.1](#), [NP\\_062011.1](#)

RefSeq Size: 2626 bp

RefSeq ORF: 1524 bp

Locus ID: 25429

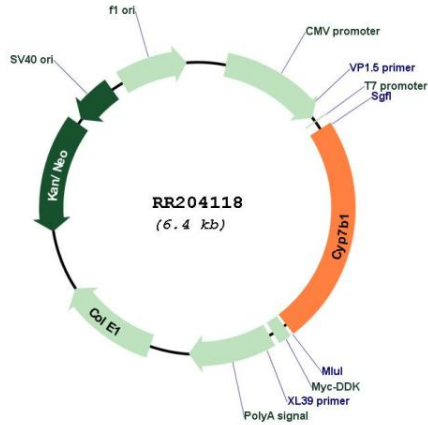
UniProt ID: [Q63688](#)

Cytogenetics: 2q24

**MW:** 58.6 kDa

**Gene Summary:** member of the p450 subfamily of cholesterol metabolizing enzymes that performs 7alpha-hydroxylation of 27-hydroxycholesterol in a bile synthesis pathway alternative to the classical cholesterol disposal pathway [RGD, Feb 2006]

**Product images:**



Circular map for RR204118