

Product datasheet for **RR212529**

Cyp4b1 (NM_016999) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp4b1 (NM_016999) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp4b1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR212529 representing NM_016999
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCTCAATTCCTCTCCCCGAGCCTTCCCGGCTCGGCTTGTGGGCTTCTGTAGTGATCCTGATGG
 TAATCGTTCTCAAGCTCTCAGCCTGCTGCTTCGAGGCAGAAGCTGGCCAGGGCTATGGACAGTTCC
 AGGGCCCCCACACACTGGCTTTTTGGTCATGCCCTTGAGATCCAGAAGTTAGGGAGCCTGGACAAGGTG
 GTATCCTGGGCCAACAGTTCCTCCATGCCACCCACTTTGGTTTGGACAATTCGTTGGTTTCTGAACA
 TCTATGAGCCGACTATGCGAAAGCTGTATACAGCCGCGGGATCCGAAGGCTGCAGATGTGTACTT
 CTTCTCCAGTGGATCGGAAAGGCTACTAGTCTGGATGGCCAAAATGGTCCAGCACCGCAAGCTG
 CTCACACCTGGCTCCATTATGATGTGCTGAAGCCCTATGTGGCCATATTTGCTGAGTCCACACGTATGA
 TGCTGGACAAGTGGGAGAAAAAGGCTAGTAAAAAAGAGCTTTGACATCTTCTGTGACGTAGGCCACAT
 GGCCCTGGACACCCTCATGAAGTGCACCTTCGGCAAAGGAGACAGCGCCCTAGGCCACAGAGACAACAGC
 TACTACCTGGCGGTCACTGACCTCACACTGCTGATGCAGCAGCGCATCGACTCCTCCAGTACCATAATG
 ACTTCATTTACTGGCTCACTCCACATGGCCGCCGCTTCTGCGGGCTGCAAGATAGCCCATGACCATAC
 AGATGAGGTATCAGGCAGCGGAAGGCAGCACTGCAGGATGAGAAAGAGCGGAAAAAGATTGAGCAGCGG
 AGGCACCTGGACTTCTGGACATTCCTCCTGGGTGTCCGGGATGAAAGTGGGATCAAGCTGTCAGATGCAG
 AGCTCCGGGTGAAGTGGACACATTCATGTTTGAAGGCCATGACACCACCACTAGTGGTATCTCTTGGTT
 TCTCTACTGCATGGCCCTTACCTGAGCACCAGCAGCTATGTAGGGAGGAGTCCGTGGGATCCTAGGA
 GACCAAGACTCCTTCCAATGGGATGATCTGGCCAAGATGACCTACCTGACCATGTGCATGAAGGAGTGT
 TCCGCCTTACCACCTGTACCCCAAGTATACCCGAGCTCAACAAGCCAGTACCTTCGTGGATGGCCG
 CTCTTACTGTCAGGCAGCCTGATCTCTGACATCTACGCCCTCCACAGGAACAGTACTGTGTGGCCT
 GATCCAGAGTCTTTGACCCACTGCGCTTTTCTCTGAGAATGCTGCAGGACGGCATCCCTTTGCCTTCA
 TGCCTTTTTCTGCAGGGCCAGGAATTGCATCGGGCAGCAGTTTGCATGAACGAGATGAAGGTGGTAC
 AGCCCTTTGTTTACTGCGCTTTGAGTCTCCCTGGATCCCTCAAAGATGCCCATTAAGGTCCCCAGCTG
 ATCTTGCCTCCAAAAATGGTATCCACCTTACCTGAAGCCGCTGGCTTCTAGGTCTGAAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212529 representing NM_016999
 Red=Cloning site Green=Tags(s)

MVLNFLSPSLRSLGLWASVVILMIVLKLFLSLRRQKLARAMDSFPGPPTHWLFHGALEIQKLGSLDKV
 VSWAQQFPHAHLWFGQFVGFNLNIYEPDYAKAVYSRGPKAADVDFLQWIGKLLVLDGPKWFQHRKL
 LTPGFHYDVLKPYVAIFAESTRMMLDKWEKASENKSFDIFCDVGHMALDTLMKCTFGKGDSTLGHDRNS
 YYLAVSDLTLLMQQRIDSFQYHNDFIYWLTPHGRRFLRACKIAHDHTDEVIRQRKAALQDEKERKKIQQR
 RHLDFLDILLGVRDESGIKLSDAELRAEVDTFMFEHDTTSGISWFLYCMALYPEHQQLCREEVRGILG
 DQDSFQWDDLAKMTYL TCMKECFRL YPPVPQVYRQLNKPVT FVDGRSLPAGSL ISLHIYALHRNSTVWP
 DPEVFDPLRF SPENAAGRHPF AFMPF SAGPRNC IGQQF AMNEMKVVTAL CLLRFEF SLDP SKMPIKVPQL
 ILRSKNGIHLYLKPLASRSGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

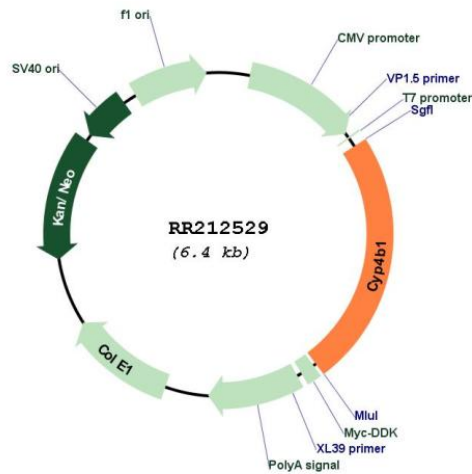
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_016999

ORF Size: 1533 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_016999.2](#), [NP_058695.2](#)

RefSeq Size: 1920 bp

RefSeq ORF: 1536 bp

Locus ID: 24307

UniProt ID: [P15129](#)

Cytogenetics: 5q35

MW: 58.9 kDa

Gene Summary: may activate carcinogenic amines and contribute to bladder cancer [RGD, Feb 2006]