

## Product datasheet for RC238231

### Cytochrome P450 26B (CYP26B1) (NM\_001277742) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cytochrome P450 26B (CYP26B1) (NM_001277742) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYP26B1
Synonyms:	CYP26A2; P450RAI-2; P450RAI2; RHFCA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238231 representing NM_001277742 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTCTTTGAGGGCTTGGATCTGGTGTGCGGCGTGGCCACCCTCGCCGCGTGCCTGGTGTCCGTGACGC  
TGCTGCTGGCCGTGTCGAGCAGCTGTGGCAGCTGCGCTGGGCCGCCACTCGCGACAAGAGCTGCAAGCT  
GCCCATCCCCAAGGGATCCATGGGCTTCCCGCTCATCGGAGAGACCGGCCACTGGCTGCTGCAGGTCTTC  
TCCAAGATCTTACGCCACGAGGCCCTGGAGAGTTACCTGCCAAGATCCAGCTGGTATCCAGGACACAC  
TGCCGCGCTGGAGCAGCCACCCCGAGGCCATCAACGTGTACCAGGAGGCGCAGAAGCTGACCTTCCGCAT  
GGCCATCCGGGTGCTGCTGGGCTTACGATCCCTGAGGAGGACCTTGGGCACCTCTTTGAGGTCTACCAG  
CAGTTTGTGGACAATGTCTTCTCCCTGCCTGTCGACCTGCCCTTTCAGTGGCTACCGCGGGGATTACAGG  
CTCGGCAGATCCTGCAGAAGGGGCTGGAGAAGGCCATCCGGGAGAAGCTGCAGTGACACAGGGCAAGGA  
CTACTTGGACGCCCTGGACCTCCTCATTGAGAGCAGCAAGGAGCACGGGAAGGAGATGACCATGCAGGAG  
CTGAAGGACGGGACCCTGGAGCTGATCTTTGCGGCCTATGCCACCAGGCCAGCGCCAGCCTCACTCA  
TCATGCAGCTGCTGAAGCACCCACTGTGCTGGAGAAGCTGCGGGATGAGCTGCGGGCTCATGGCATCCT  
GCACAGTGGCGGCTGCCCTGCGAGGGCACACTGCGCCTGGACACGCTCAGTGGGCTGCGCTACCTGGAC  
TGCCTCATCAAGGAGGTATGCGCCTGTTACGCCCATTTCCGGCGGCTACCGCACTGTGCTGCAGACCT  
TCGAGCTTGATGGTTTCCAGATCCCCAAGGCTGGAGTGTATGTATAGCATCCGGGACACCCATGACAC  
AGCGCCCGTGTCAAAGACGTGAACGTGTTGACCCCGATCGCTTACGCCAGGCGCGGAGCGAGGACAAG  
GATGGCCGCTTCCATTACCTCCCGTTCGGTGGCGGTGTCGGACCTGCCTGGCAAGCACCTGGCCAAGC  
TGTTCTGAAGGTGCTGGCGGTGGAGCTGGCTAGCACCAGCCGCTTTGAGCTGGCCACACGGACCTTCCC  
CCGCATCACCTTGGTCCCGTCTGCACCCCGTGGATGGCCTCAGCGTCAAGTTCTTTGGCCTGGACTCC  
AACCAGAACGAGATCCTGCCGGAGACGGAGGCCATGCTGAGCGCCACAGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC238231 representing NM\_001277742  
Red=Cloning site Green=Tags(s)

MLFEGLDLVSALATLAACLVSVTLLLAVSQQLWQLRWAATRDKSCKLPPIKGSMPGFLIGETGHWLLQVF  
 SKIFSHEALESYLPKIQLVIQDTLRAWSSHPEAINVYQEAQKL TFRMAIRVLLGFSPPEEDLGHLEFYVQ  
 QFVDNVFSLPVDLPFSGYRRGIQARQILQKGLEKAIREKLQCTQKDYLDALDLLIESSKEHGKEMTMQE  
 LKDGTLLELIFAAYATTASASTSLIMQLLKHPTVLEKLRDELRAHGILHSGGCPCEGTLRLDRTL SGLRYLD  
 CVIKEYMRLFTPISGGYRTVLQTFELDGFQIPKGWSVMYSIRDTHDTAPVFKDVNVFDPDRFSQARSEDK  
 DGRFHLYLPFGGGVRTCLGKHLAKLFLKVLAVELASTSRFELATRTFPRITLVPVLHPVDGLSVKFFGLDS  
 NQNEILPETEAMLSATV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

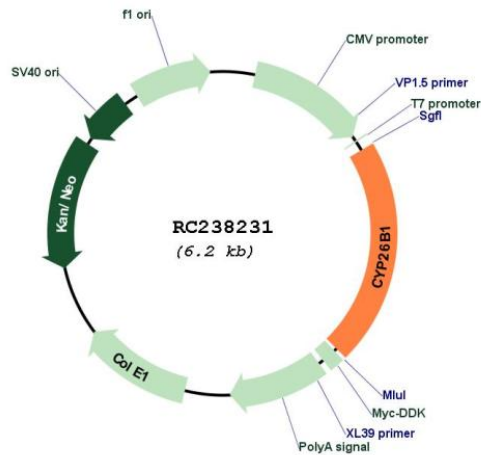
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001277742

<b>ORF Size:</b>	1311 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001277742.1</a> , <a href="#">NP_001264671.1</a>
<b>RefSeq Size:</b>	4342 bp
<b>RefSeq ORF:</b>	1314 bp
<b>Locus ID:</b>	56603
<b>UniProt ID:</b>	<a href="#">Q9NR63</a>
<b>Cytogenetics:</b>	2p13.2
<b>Protein Families:</b>	Druggable Genome, P450
<b>Protein Pathways:</b>	Retinol metabolism
<b>MW:</b>	49.5 kDa
<b>Gene Summary:</b>	This gene encodes a member of the cytochrome P450 superfamily. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. The encoded protein is localized to the endoplasmic reticulum, and functions as a critical regulator of all-trans retinoic acid levels by the specific inactivation of all-trans retinoic acid to hydroxylated forms. Mutations in this gene are associated with radiohumeral fusions and other skeletal and craniofacial anomalies, and increased levels of the encoded protein are associated with atherosclerotic lesions. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2013]