

Product datasheet for **SC317844**

CYP2R1 (NM_024514) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP2R1 (NM_024514) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYP2R1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

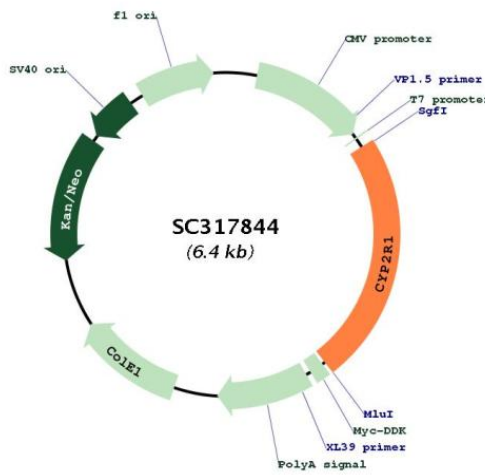
Fully Sequenced ORF: >SC317844 representing NM_024514.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTGGAAGCTTTGGAGAGCTGAAGAGGGCGGGCGGCTCGGGCGCGCTCTTCTGCTGCTCTTC
GCGTAGGGGTCGCCAGCTGCTGAAGCAGAGGGCGCGGATGGGTTCCCCCGGGCGCCGGGGCTG
CCATTTATCGGCAACATCTATCCCTGGCAGCCTCATCCGAGTTCCCATGTCTACATGAGAAAGCAG
AGCCAGGTGTACGGAGAGATCTTCAGTTTATAGTCTTGGAGGCATATCAACTGTGGTTCTAAATGGCTAT
GATGTAGTAAAGGAATGCCTTGTTCATCAAAGCGAAAATTTTGCAGACAGACCATGCCTTCTTTATTC
ATGAAGATGACAAAAATGGGAGGCTTACTCAATCCAGATATGGCCGAGGATGGTTGATCACAGACGA
TTAGCTGTAACAGTTTTCGATATTTGGATATGGCCAAAAGTCTTTGAATCTAAAATCTTGAAGAA
ACCAAATTTTCAATGATGCTATTGAAACATACAAAGGTAGACCTTTTGACTTTAAACAGTTAATAACG
AATGCTGTTTCAAACATAACCAATCTGATCATTTTTGGAGAACGATTCACCTATGAAGACACCGATTTT
CAGCACATGATTGAGTTATTTAGTAAAAATGTGGAAGTACTGCCAGTGCCTCAGTCTTCTGTATAAT
GCCTTTCCATGGATTGGCATCCTGCCTTTTGGAAAACATCAACAGCTGTTTAGAAATGCAGCTGTAGTC
TATGATTTTCTCTCCAGACTCATTGAAAAAGCTTCAGTCAACAGAAAGCCTCAGCTACCTCAGCATTTT
GTTGATGCTTATTTAGATGAGATGGATCAAAGTAAAAATGACCCATCATCTACTTTCTCAAAGAAAAC
CTAATTTTCTCAGTGGGTGAACCTCATCATTGCTGGAAGTAAAACATAACCAATGTGCTACGGTGGGCG
ATTCTTTTTCATGGCCCTTATCCTAATATTCAAGGACAAGTTCAGAAAAGAGATTGATTTAATTATGGGC
CCTAATGGGAAGCCTTCTTGGGACGACAAAATGCAAAATGCCTTACTGAGGCAGTTTGCATGAAGTT
TTAAGATTCTGTAATATAGTCCATTAGGATTTTCCATGCAACCTCTGAAGATGCAGTTGTACGTGGT
TATCCATTCTAAAGGCACAACAGTAATTACAAATCTTATTCTGTACACTTTGATGAAAAGACTGG
AGAGACCCAGAAGTGTCCATCCTGAGCGATTTCTGGACAGCAGTGGATATTTTGGCAAGAAAGGAGCT
TTGGTTCTTTTTCCCTAGGAAGAAGACATTGTCTTGGAGAACACTTGGCTCGGATGAAAATGTTCTTG
TTTTTACAGCATTGCTCAGAGGTTTCATTTGCATTTTCCACATGAACTAGTTCAGATCTGAAGCCC
AGGTTAGGCATGACATTGCAGCCCCAACCTACCTCATCTGTGCTGAAAGACGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_024514

Insert Size: 1506 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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:	<u>NM_024514.4</u>
RefSeq Size:	1633 bp
RefSeq ORF:	1506 bp
Locus ID:	120227
UniProt ID:	<u>Q6VVX0</u>
Cytogenetics:	11p15.2
Protein Families:	Druggable Genome, P450, Transmembrane
MW:	57.4 kDa
Gene Summary:	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This enzyme is a microsomal vitamin D hydroxylase that converts vitamin D into the active ligand for the vitamin D receptor. A mutation in this gene has been associated with selective 25-hydroxyvitamin D deficiency. [provided by RefSeq, Jul 2008]