

## Product datasheet for SC109997

### PXR (NR112) (NM\_003889) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PXR (NR112) (NM_003889) Human Untagged Clone
Tag:	Tag Free
Symbol:	PXR
Synonyms:	BXR; ONR1; PAR; PAR1; PAR2; PARq; PRR; PXR; SAR; SXR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003889, the custom clone sequence may differ by one or more nucleotides

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CTGGAGGTGAGACCCAAAGAAAGCTGGAACCATGCTGACTTTGTACACTGTGAGGACACAGAGTCTGTTC
CTGGAAGCCAGTGTCAACGCAGATGAGGAAGTCGGAGGTCCCCAAATCTGCCGTGTATGTGGGGACAA
GGCCACTGGCTATCACTTCAATGTCATGACATGTGAAGGATGCAAGGGCTTTTTTCAGGAGGGCCATGAAA
CGCAACGCCCGGCTGAGGTGCCCTTCCGGAAGGGCGCCTGCGAGATCACCCGGAAGACCCGGCGACAGT
GCCAGGCTGCCGCTGCGCAAGTGCCTGGAGAGCGGCATGAAGAAGGAGATGATCATGTCCGACGAGGC
CGTGGAGGAGAGGCGGGCCTTGATCAAGCGGAAGAAAAGTGAACGGACAGGGACTCAGCCACTGGGAGTG
CAGGGGCTGACAGAGGAGCAGCGGATGATGATCAGGGAGCTGATGGACGCTCAGATGAAAACCTTTGACA
CTACCTTCTCCATTTCAGAAATTTCCGGCTGCCAGGGGTGCTTAGCAGTGGCTGCGAGTTGCCAGAGTC
TCTGCAGGCCCATCGAGGGAAGAAGCTGCCAAGTGGAGCCAGGTCCGGAAGATCTGTGCTCTTTGAAG
GTCTCTCTGCAGCTGCGGGGGGAGGATGGCAGTGTCTGGAACACAAACCCAGCCGACAGTGGCGGGGA
AAGAGATCTTCTCCCTGCTGCCCCACATGGCTGACATGTCAACCTACATGTTCAAAGGCATCATCAGCTT
TGCCAAAGTCATCTCCTACTTCAGGGACTTGCCCATCGAGGACCAGATCTCCCTGCTGAAGGGGGCCGCT
TTCGAGCTGTGCAACTGAGATTCAACACAGTGTCAACGCGGAGACTGGAACCTGGGAGTGTGGCCGGC
GTCTACTGCTTGAAGACACTGCAGGTGGCTTCCAGCAACTTCTACTGGAGCCCATGCTGAAATTCAC
CTACATGCTGAAGAAGCTGCAGTGCATGAGGAGGAGTATGTGCTGATGCAGGCCATCTCCCTCTTCTCC
CCAGACCCCGAGGTGTGCTGCAGCACCCGCTGGTGGACCAGCTGCAGGAGCAATTCCGCCATTACTCTGA
AGTCTACATTGAATGCAATCGGCCCGCCTGCTCATAGGTTCTTGTTCCTGAAGATCATGGCTATGCT
CACCGAGCTCCGACGATCAATGCTCAGCACACCCAGCGGCTGCTGCGCATCCAGGACATACACCCCTTT
GCTACGCCCTCATGCAGGAGTTGTTCCGCATCACAGGTAGCTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003889 unedited  
 CCCGTTAGGAATTGTAACGACTCATATAGGCGGCCTGCGAATTCGCACCAGCCTATGAC  
 TAGGACGGGAAGAGGAAGCACTGCCTTTACTTCAGTGGGAATCTCGGCCTCAGCCTGCAA  
 GCCAAGTGTTCACAGTGAGAAAAGCAAGAGAATAAGCTAATACTCCTGTCTGAAAAAGG  
 CAGCGGCTCCTTGGTAAAGCTACTCCTTGATCGATCCTTTGCACCGGATTGTTCAAAGTG  
 GACCCACAGGAGGAGTGGAGACCCAAAGAAAGCTGGAACCATGCTGACTTTGTACACTGTGAG  
 GACACAGAGTCTGTTCTGGAAAAGCCAGTGTC AACGCAGATGAGGAAGTCGGAGGTCCC  
 CAAATCTGCCGTGTATGTGGGGACAAGGCCACTGGCTATCACTTCAATGTCATGACATGT  
 GAAGGATGCAAGGGCTTTTTT CAGGAGGGCCATGAAACGCAACGCCCGGCTGAGGTGCCCC  
 TTCCGGAAGGGCGCCTGCGAGATCACCCGGAAGACCCGGCGACAGTGCCAGGCCTGCCGC  
 CTGCGCAAGTGCCTGGAGAGCGGCATGAAGAAGGAGATGATCATGTCCGACGAGGCCGTG  
 GAGGAGAGGGCGGCTTGATCAAGCGGAAGAGAAGTGAACGGACAGGGACTCAGCCACTG  
 NGAGTGCAGGGGCTGACAGAGGAGCAGCTGATGATGATCAGGGAGCTGATGGACGCTCAG  
 ATGAAAACCTTTGACACTACCTTCTCCCATTTCAAGAATTTCTGCTGCCAGGGGTGCTT  
 AGCAGTGGCTGCGAGTTGCCAGAGTCTCTGCAGGCCCATCTGAGGAAAGAGCTGCCTA  
 GTGTAGCCAGGTCTGAAAGATCTGTGCTCTTTGAAGGTCT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003889 unedited  
 CCCCCCATTAGTGTAGNCNCGCGNCCGCTATTCTAGACNCGACTTTTTTTTTTTTTTTT  
 TTTTGTAGCAAAGTACATTATTTAATTCCTTTTGCCTTGATTTGACATTAACCCAGGGC  
 TACATTTCCAAAAGTATTCTTAGGTGTGGAATGCCTTATATAAAGTATAATTTGTGAA  
 AATGCAAAAAATTTTTACTCACAAGTGGCTATAAACAAGGCAGGCACTTTCATACCCTT  
 TAGCTTTGAGAATAGATGTGTACACAGAAATATAAGGTGCATGTAATGGTCTTCTCCG  
 GTGTGTTAACTGATTGTGACGCTAGCCTTGTACAGAGCATACCCAGCATTCCAGCCCC  
 AGGAACAAACCCAGGCCCATCAAGTGGCAAACAGACCTACCTACACCAATCACACACA  
 CGCACTCACAGCTGCAGTTTGTGCCCTTGTCTCTACAGACTCATGTCTCGGGAACCTTC  
 ACTTGGGTACCCAGTGCCCGCCATCACAGCTCAGCATCCACACAGGGAATTCCTTGTC  
 TGCTTTTGCCACTTATCATTTCTCCTTTTGATCCACAACGTTTGTGTTTCTGTTTGT  
 TTTAACTATAAACTCTGTGAGCTCAGGATCTATATCTGAGTCAATGCTGTATACCCACA  
 GCAGGCTACCTATTATCGGTGCTTAATAATGGGTTCAAATGGATGCAGAGACCAGAAATGA  
 CGTGGCCGGAATGAGCCATGCCAGCTTCTGACATTTGGTGCCGCACTCCTGGCTTCT  
 CATCTTTCTAGAGGACGTCCACCGAACTTATGCCCTGCCGATGAGTACAGGCCTGGAG  
 CCCCAGCAGTTGGAAGAGAGGAAACCAATGGAACATGGAGACGCACTATTACAGTTA  
 GCATGAAAAAN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003889

**Insert Size:**

1305 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).

**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\\_003889.2](#), [NP\\_003880.3](#)

**RefSeq Size:** 4446 bp

**RefSeq ORF:** 1305 bp

**Locus ID:** 8856

**UniProt ID:** [O75469](#)

**Cytogenetics:** 3q13.33

**Domains:** HOLI, zf-C4

**Protein Families:** Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

**Gene Summary:** This gene product belongs to the nuclear receptor superfamily, members of which are transcription factors characterized by a ligand-binding domain and a DNA-binding domain. The encoded protein is a transcriptional regulator of the cytochrome P450 gene CYP3A4, binding to the response element of the CYP3A4 promoter as a heterodimer with the 9-cis retinoic acid receptor RXR. It is activated by a range of compounds that induce CYP3A4, including dexamethasone and rifampicin. Several alternatively spliced transcripts encoding different isoforms, some of which use non-AUG (CUG) translation initiation codon, have been described for this gene. Additional transcript variants exist, however, they have not been fully characterized. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) contains an alternate 5' terminal exon compared to transcript variant 2, and initiates translation from an in-frame, downstream non-AUG (CUG) codon, resulting in a shorter isoform (1) with a different N-terminus compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no quality transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.