

Product datasheet for **RG220568**

PXR (NR1I2) (NM_022002) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PXR (NR1I2) (NM_022002) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PXR
Synonyms:	BXR; ONR1; PAR; PAR1; PAR2; PARq; PRR; PXR; SAR; SXR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220568 representing NM_022002
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACAGTCAACCAGGACTCACTTCAAGGAGGGTCCCTCAGAGCACCTGCCATACCCCTGCACAGTG
 CTGCGGCTGAGTTGGCTTCAAACCATCCAAGAGGCCAGAAGCAAACCTGGAGGTGAGACCCAAAGAAAG
 CTGGAACCATGCTGACTTTGTACTACTGTGAGGACACAGAGTCTGTTCTTGAAAGCCAGTGTCAACGCA
 GATGAGGAAGTCGGAGGTCCCAATCTGCCGTGTATGTGGGACAAGGCCACTGGCTATCACTTCAATG
 TCATGACATGTGAAGGATGCAAGGGCTTTTTCAGGAGGGCCATGAAACGCAACGCCCGGCTGAGGTGCC
 CTTCCGGAAGGGCGCCTGCGAGATCACCCGGAAGACCCGGCGACAGTGCCAGGCCGCGCCTGCGCAAG
 TGCTGGAGAGCGGCATGAAGAAGGAGATGATCATGTCCGACGAGGCCGTGGAGGAGAGGCGGGCCTTGA
 TCAAGCGAAGAAAAGTGAACGGACAGGACTCAGCCACTGGGAGTGCAGGGGCTGACAGAGGAGCAGCG
 GATGATGATCAGGAGCTGATGGACGCTCAGATGAAAACCTTTGACACTACCTTCTCCATTCAAGAAT
 TTCCGGCTGCCAGGGGTGCTTAGCAGTGCTGCGAGTTGCCAGAGTCTCTGCAGGCCCATCGAGGGGAA
 AAGCTGCCAAGTGAGGCCAGTCCGAAAGATCTGTGCTCTTTGAAGGTCTCTCTGCAGCTGCGGGGGA
 GGATGGCAGTGTCTGAACTACAAACCCAGCCGACAGTGGCGGAAAGAGATCTTCTCCCTGCTGCC
 CACATGGCTGACATGTCAACCTACATGTTCAAAGGCATCATCAGCTTTGCCAAAGTCATCTCCTACTTCA
 GGGACTTGCCATCGAGGACCAGATCTCCCTGCTGAAGGGGGCCGCTTTCGAGCTGTGTCAACTGAGATT
 CAACACAGTGTCAACCGGAGACTGGAACCTGGGAGTGTGGCCGGCTGTCTACTGCTTGAAGACACT
 GCAGGTGGCTTCCAGCACTTCTACTGGAGCCATGCTGAAATCCACTACATGCTGAAGAAGCTGCAGC
 GCACCGCTGGTGGACCAGCTGCAGGAGCAATTCGCCATTACTCTGAAGTCTACATTGAATGAATCGG
 CCCCAGCTGCTCATAGTTCTTGTTCCTGAAGATCATGGCTATGCTCACCGAGCTCCGACGATCAATG
 CTCAGCACACCCAGCGGCTGCTGCGCATCCAGGACATACCCCTTTGCTACGCCCTCATGCAGGAGTT
 GTTCGGCATCACAGGTAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220568 representing NM_022002
 Red=Cloning site Green=Tags(s)

MTVTRTHHFKEGSLRAPAIPLHSAAAELASNHPRGPEANLEVRPKESWNHADVFHCEDESVPGKPSVNA
 DEEVGGPQICRVCGDKATGYHFNVMTCEGCKGFRRAMKRNARLRCPFRKGACEITRKTRRQCACRLRK
 CLESGMKKEMIMSDEAVEERRALIKRKKCERTGTQPLGVQGLTEEQRMIRELMDAQMKTFDTTFSHFKN
 FRLPGVLSGCELPESLQAPSREEAAKWSQVRKDLCSLKVSLQLRGEDGSVWNYKPPADSGGKEIFSLLP
 HMADMSTYMFKGIISFAKVISYFRDLPIEDQISLLKGAFFELCQLRFNTVFNAETGTWECGRLSYCLEDT
 AGGFQQLLLEPMLKFHYMLKKLQLHEEEYVLMQAI SLFSPDRPGVLQHRVVDQLQEQAIFATLKSYLECNR
 PQPAHRFLFLKIMAMLELRSINAQHTQRLLRIQDIHPFATPLMQELFGITGS

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2233_e07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_022002

ORF Size: 1419 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_022002.2](#), [NP_071285.1](#)

RefSeq Size: 2772 bp

RefSeq ORF: 1422 bp

Locus ID: 8856

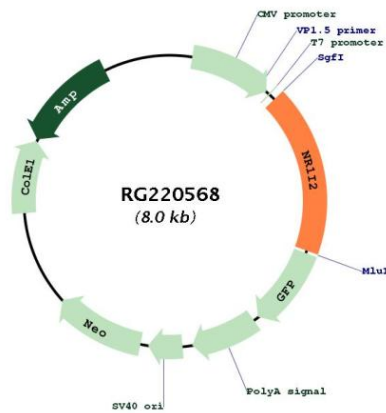
UniProt ID: [O75469](#)

Cytogenetics: 3q13.33

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]

Product images:



Circular map for RG220568