

Product datasheet for **MC209057**

Nr1i2 (NM_010936) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr1i2 (NM_010936) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nr1i2
Synonyms:	mPXR; PXR; PXR.1; PXR.2; PXR1; SXR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC209057 representing NM_010936
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGACCTGAGGAGAGCTGGAGCCGAGTTGGCCTTGTACAGTGTGAAGAAGCAGACTCTGCCTTGAAG
 AGCCCATCAACGTAGAGGAGGAAGATGGAGGTCTTCAAATCTGCCGTGTATGTGGGGACAAGCCAATGG
 CTACCACTTCAATGTCATGACGTGTGAAGGATGCAAGGGTTTTTCAGAAGGGCCATGAAACGCAATGTC
 CGGCTGAGGTGCCCTTCCGCAAGGGAACCTGCGAGATCACCCGGAAGACACGACGGCAGTGCCAGGCC
 GCCGTTTTCGCAAGTGCCTGGAGAGTGGCATGAAGAAAGAGATGATCATGTCCGATGCCGCTGTGGAGCA
 GAGGCGGGCCTTGATCAAGAGGAAGAAGAGGGAAAAGATTGAGGCTCCACCGCTGGAGGGCAGGGGCTG
 ACGGAAGAACAGCAGGCGCTGATCCAGGAGCTGATGGACGCTCAGATGCAAACCTTTGACACAATTTCT
 CCCACTCAAGGATTTCCGGCTGCCTGCAGTGTCCACAGTGGCTGTGAGCTTCCAGAGTTTCTGCAGGC
 CACTACTGTTGGAAGACCCTGCCACATGGAGTCAAATCATGAAAGACAGGGTTCCAATGAAGATCTCTCTG
 CAGCTGCCGGGAGAAGACGGCAGCATCTGGAACCTCAACCCCTTCCAAGAGCGACGGGAAAGAGATCA
 TCCTCTTCTGCCACACCTGGCCGATGTGTCAACCTACATGTTCAAGGGCGTCATCAACTTCGCCAAAGT
 CATATCTACTTTAGGGACCTGCCTATTGAGGACCAGATCTCCCTGCTGAAGGGGGCCACTTTTGAGATG
 TGCATCCTGAGGTTCAACACGATGTTTCGACACGGAAACGGGAACCTGGGAGTGGCGCCGGCTGGCTTACT
 GCTTCGAAGACCTAATGGTGGCTTCCAGAAACTTCTGTTGGATCCATTGATGAAATCCACTGCATGCT
 GAAGAAGCTACAGCTGCATAAGGAGGAGTATGTGCTGATGCAGGCCATCTCCCTTCTCCCCAGATCGT
 CCTGGTGTGGTCCAGCGCAGCGTGGTAGACCAACTGCAGGAGAGGTTTGCCTCACCTGAAGGCCTACA
 TTGAGTGTAGTCGGCCATATCCTGCTCACAGTTCCTGTTCTGAAAGATCATGGCCGCTCTCACTGAGT
 CGGAAGCATCAACGCCAGCAAACCCAGAGTTGCTGCGCATCCAAGACTCGCACCCCTTTGCCACCCCA
 CTATGCAAGAGTTATTTAGCAGCACAGATGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_010936

Insert Size: 1296 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](#)

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: [BC120796](#), [AAI20797](#)

RefSeq Size: 1565 bp

RefSeq ORF: 1296 bp

Locus ID: 18171

UniProt ID: [O54915](#)

Cytogenetics: 16 B3

Gene Summary: Nuclear receptor that binds and is activated by a variety of endogenous and xenobiotic compounds. Transcription factor that activates the transcription of multiple genes involved in the metabolism and secretion of potentially harmful xenobiotics, endogenous compounds and drugs. Response to specific ligands is species-specific, due to differences in the ligand-binding domain. Binds to a response element in the promoters of the CYP3A4 and ABCB1/MDR1 genes (By similarity). Activated by naturally occurring steroids such as pregnenolone and progesterone, the cholesterol metabolite 5-beta-cholestane-3-alpha,7-alpha,12-alpha-triol, synthetic glucocorticoids and antiglucocorticoids and 16-alpha-carbonitrile (PCN).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer isoform (1, also known as PXR.1).