

## Product datasheet for **MR226044**

### **Nr1i2 (NM\_010936) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nr1i2 (NM_010936) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR226044 representing NM\_010936  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGACCTGAGGAGAGCTGGAGCCGAGTTGGCCTTGTACAGTGTGAAGAAGCAGACTCTGCCTTGAAG  
 AGCCCATCAACGTAGAGGAGGAAGATGGAGGTCTTCAAATCTGCCGTGTATGTGGGGACAAGCCAATGG  
 CTACCACTTCAATGTCATGACGTGTGAAGGATGCAAGGGTTTTTCAGAAGGGCCATGAAACGCAATGTC  
 CGGCTGAGGTGCCCTTCCGCAAGGGAACCTGCGAGATCACCCGGAAGACACGACGGCAGTGCCAGGCCT  
 GCCGTTTTCGCAAGTGCCTGGAGAGTGGCATGAAGAAAGAGATGATCATGTCCGATGCCGCTGTGGAGCA  
 GAGGCGGGCCTTGATCAAGAGGAAGAAGAGGGAAAAGATTGAGGCTCCACCGCTGGAGGGCAGGGGCTG  
 ACGGAAGAACAGCAGGCCTGATCCAGGAGCTGATGGACGCTCAGATGCAAACCTTTGACACAATTTCT  
 CCCACTCAAGGATTTCCGGCTGCCTGCAGTGTCCACAGTGGCTGTGAGCTTCCAGAGTTTCTGCAGGC  
 CTCACTGTTGGAAGACCCTGCCACATGGAGTCAAATCATGAAAGACAGGGTTCCAATGAAGATCTCTCTG  
 CAGCTGCCGGGAGAAGACGGCAGCATCTGGAACCTACCAACCCCTTCCAAGAGCGACGGGAAAGAGATCA  
 TCCTCTTCTGCCACACCTGGCCGATGTGTCAACCTACATGTTCAAGGGCGTCATCAACTTCGCCAAAGT  
 CATATCCTACTTTAGGGACCTGCCTATTGAGGACCAGATCTCCCTGCTGAAGGGGGCCACTTTTGAGATG  
 TGCATCCTGAGGTTCAACACGATGTTCCGACACGGAAACGGGAACCTGGGAGTGGCGCCGGCTGGCTTACT  
 GCTTCGAAGACCCTAATGGTGGCTTCCAGAAACTTCTGTTGGATCCATTGATGAAATTCCTACTGCATGCT  
 GAAGAAGCTACAGCTGCATAAGGAGGAGTATGTGCTGATGACAGCCATCTCCCTCTTCTCCCAGATCGT  
 CCTGGTGTGGTCCAGCGCAGCGTGGTAGACCAACTGCAGGAGAGGTTTGCCTCACCTGAAGGCCTACA  
 TTGAGTGTAGTCGGCCATATCCTGCTCACAGTTCCTGTTCTCTGAAGATCATGGCCGCTCCTCACTGAGCT  
 GCGAAGCATCAACGCCAGCAAACCCAGAGTTGCTGCGCATCCAAGACTCGCACCCCTTTGCCACCCCA  
 CTCATGCAAGAGTTATTTAGCAGCACAGATGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226044 representing NM\_010936  
 Red=Cloning site Green=Tags(s)

MRPEESWSRVGLVQCEEADSALEEPINVEEEDGGLQICRVCGDKANGYHFNVMTCGCKGFFRRAMKRN  
 RLRCPPFRKGTCEITRKTRRQCACRLRKCLESGMCKEMIMSDAAVEQRRALIKRKKREKIEAPPPGGQGL  
 TEEQQALIQELMDAQMQTFDITTFSHFKDFRLPAVFGHSGCELPFLQASLLEDPATWSQIMKDRVPMKISL  
 QLRGEGDSIWNYPSPKSDGKEIIPLLPHLADVSTYMFKGVINFAKVISYFRDLPIEDQISLLKGFATFEM  
 CILRFNTMFDTEGTWECGRLAYCFEDPNGGFQKLLLDPLMKFHCMLKQLHKEEYVLMQAIISLFS  
 PGVVQRSVVDQLQERFALTLKAYIECSRYPYAHRFLLKIMAVLTELRSINAQQTQQLLRIQDSHPFATP  
 LMQELFSSTDG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_010936

ORF Size: 1293 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](mailto: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](#)

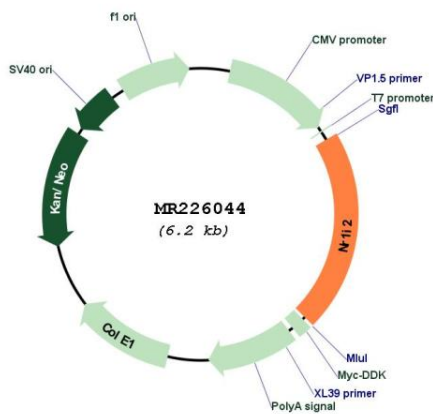
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_010936.3</a> , <a href="#">NP_035066.1</a>
<b>RefSeq Size:</b>	2540 bp
<b>RefSeq ORF:</b>	1296 bp
<b>Locus ID:</b>	18171
<b>UniProt ID:</b>	<a href="#">O54915</a>
<b>Cytogenetics:</b>	16 B3
<b>MW:</b>	50 kDa
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for MR226044