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Product datasheet for MG226050

Nr1i2 (NM_001098404) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr1i2 (NM_001098404) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nr1i2
Synonyms:	mPXR; PXR; PXR.1; PXR.2; PXR1; SXR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG226050 representing NM_001098404
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGACCTGAGGAGAGCTGGAGCCGAGTTGGCCTTGTACAGTGTGAAGAAGCAGACTCTGCCTTGGAAG
AGCCCATCAACGTAGAGGAGGAAGATGGAGGTCTTCAAATCTGCCGTGTATGTGGGGACAAGGCCAATGG
CTACCACTTCAATGTCATGACGTGTGAAGGATGCAAGGGGTTTTTCAGAAGGGCCATGAAACGCAATGTC
CGGCTGAGGTGCCCCTTCCGCAAGGGAACCTGCGAGATCACCCGGAAGACACGACGGCAGTGCCAGGCCT
GCCGTTTGCGCAAGTGCCTGGAGAGTGGCATGAAGAAAGAGATGATCATGTCCGATGCCGCTGTGGAGCA
GAGGCGGGCCTTGATCAAGAGGAAGAAGAGGGAAAAGATTGAGGCTCCACCGCCTGGAGGGCAGGGGCTG
ACGGAAGAACAGCAGGCGCTGATCCAGGAGCTGATGGACGCTCAGATGCAAACCTTTGACACAACTTTCT
CCCACTTCAAGGATTTCCGGCTGCGCGGAGAAGACGGCAGCATCTGGAACTACCAACCCCCTTCCAAGAG
CGACGGGAAAGAGATCATCCCTCTTCTGCCACACCTGGCCGATGTGTCAACCTACATGTTCAAGGGCGTC
ATCAACTTCGCCAAAGTCATATCCTACTTTAGGGACCTGCCTATTGAGGACCAGATCTCCCTGCTGAAGG
GGGCCACTTTTGAGATGTGCATCCTGAGGTTCAACACGATGTTCGACACGGAAACGGGAACCTGGGAGTG
CGGCCGGCTGGCTTACTGCTTCGAAGACCCTAATGGTGGCTTCCAGAAACTTCTGTTGGATCCATTGATG
AAATTCCACTGCATGCTGAAGAAGCTACAGCTGCATAAGGAGGAGTATGTGCTGATGCAGGCCATCTCCC
TCTTCTCCCCAGATCGTCCTGGTGTGGTCCAGCGCAGCGTGGTAGACCAACTGCAGGAGAGGTTTGCCCT
CACCCTGAAGGCCTACATTGAGTGTAGTCGGCCATATCCTGCTCACAGGTTCCTGTTCCTGAAGATCATG
GCCGTCCTCACTGAGCTGCGAAGCATCAACGCCCAGCAAACCCAGCAGTTGCTGCGCATCCAAGACTCGC
ACCCCTTTGCCACCCCACTCATGCAAGAGTTATTTAGCAGCACAGATGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

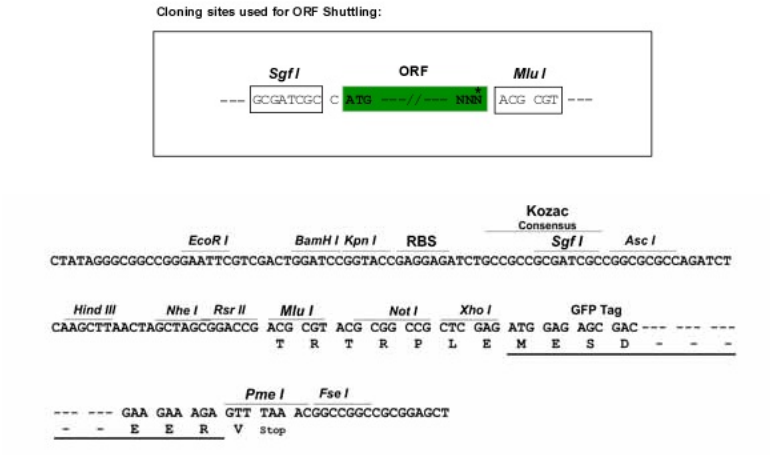
>MG226050 representing NM_001098404
Red=Cloning site Green=Tags(s)

MRPEESWSRVGLVQCEEADSALEEPINVEEEDGGLQICRVCGDKANGYHFNVMTCEGCKGFFRRAMKRNV
RLRCPFRKGTCEITRKTRRQCQACRLRKCLESGMKKEMIMSDAAVEQRRALIKRKKREKIEAPPPGGQGL
TEEQQALIQELMDAQMQTFDTTFSHFKDFRLRGEDGSIWNYQPPSKSDGKEIIPLLPHLADVSTYMFKGV
INFAKVISYFRDLPIEDQISLLKGATFEMCILRFNTMFDTETGTWECGRLAYCFEDPNGGFQKLLLDPLM
KFHCMLKKLQLHKEEYVLMQAISLFSPDRPGVVQRSVVDQLQERFALTLKAYIECSRPYPAHRFLFLKIM
AVLTELRSINAQQTQQLLRIQDSHPFATPLMQELFSSTDG

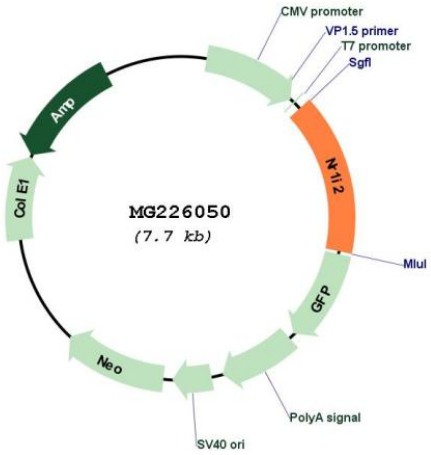
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001098404

ORF Size:	1170 bp
OTI Disclaimer:	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_001098404.1, NP_001091874.1
RefSeq Size:	2417 bp
RefSeq ORF:	1173 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]