

Product datasheet for **RC232826**

Bile Acid Receptor (NR1H4) (NM_001206992) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bile Acid Receptor (NR1H4) (NM_001206992) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NR1H4
Synonyms:	BAR; FXR; HRR-1; HRR1; PFIC5; RIP14
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC232826 representing NM_001206992
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTAATGCAGTTTCAGGGTTAGAAAATCCAATTCAAATTAGTCCTCACTGCAGCTGTACGCCGTCAG
 GATTTTTTCATGGAAATGATGAGTATGAAGCCCGGAAAGGTGTTTTAACAGAACAAGTGGCAGGTCCTCT
 GGGACAGAACCTGGAAGTGAACCACTACTCGCAATACAGCAATGTTCAAGTTTCCCAAGTTCAACCCACAG
 ATTTCTCGTCATCCTATTATTCCAACCTGGGTTTCTACCCCGCAGCAGCTGAAGAGTGGTACTCTCCTG
 GAATATATGAACTCAGGCGTATGCCAGCTGAGACTCTCTACCAGGGAGAACTGAGGTAGCAGAGATGCC
 TGTAACAAAGAAGCCCCGCATGGCGCGTCAGCAGGGAGGATCAAAGGGGATGAGCTGTGTGTTGTTTGT
 GGAGACAGAGCCTCTGGATACCACTATAATGCACTGACCTGTGAGGGGTGTAAGGTTTCTTCAGGAGAA
 GCATTACCAAAAACGCTGTGTACAAGTGTAAAAACGGGGCAACTGTGTGATGGATATGTACATGCGAAG
 AAAGTGCAAGAGTGTGCTACTAAGGAAATGCAAGAGATGGGAATGTTGGCTGAATGCTTGTAACTGAA
 ATTCAGTGTAATCTAAGCGACTGAGAAAAATGTGAAGCAGCATGCAGATCAGACCGTGAATGAAGACA
 GTGAAGGTCGTGACTTGGACAAGTGACCTCGACAACAAAGTCATGCAGGGAGAAAACTGAACTCACCCC
 AGATCAACAGACTCTTCTACATTTTATTATGGATTATATAACAAACAGAGGATGCCTCAGGAAATAACA
 AATAAAATTTTAAAAGAAGAATTCAGTGCAGAAGAAAAATTTTCTCATTTTGACGGAAATGGCAACCAATC
 ATGTACAGGTTCTGTAGAATTCACAAAAAGCTACCAGGATTTGAGACTTTGGACCATGAAGACCAGAT
 TGCTTTGCTGAAAGGCTGCGGTTGAAGCTATGTTCTTCGTTCACTGAGATTTTCAATAAGAACTT
 CCGTCTGGCATTCTGACCTATTGGAAGAAAGAATTCGAAATAGTGGTATCTCTGATGAATATAACAC
 CTATGTTTAGTTTTTATAAAAGTATTGGGAAGTAAAAAGTCAAGAGGAGTATGCTCTGCTTACAGC
 AATTGTTATCCTGTCTCCAGATAGACAATACATAAAGGATAGAGAGGCAGTAGAGAAGCTTCAGGAGCCA
 CTTCTTGATGTGTACAAAAGTTGTGTAAGATTACCAGCCTGAAAACTCCTCAACACTTTGCCTGTCTCC
 TGGGTCGCTGACTGAATTACGGACATTCAATCATCACCACGCTGAGATGCTGATGTCATGGAGAGTAAA
 CGACCACAAGTTTACCCACTTCTGTGAAATCTGGGACGTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232826 representing NM_001206992
 Red=Cloning site Green=Tags(s)

MVMQFQGLENIPIQISPHCSCTPSGFFMEMMSMKPAKGVLTEQVAGPLGQNLEVEPYSQYSNVQFPVQPQ
 ISSSSYSNLGFYPQPPEEWYSPGIYELRRMPAETLYQGETEVAEMPVTKKPRMGASAGRIKGDLCVVC
 GDRASGYHYNALTCEGCKGFFRRSITKNAVYKCKNGGNCVMDMYMRRKQCQECRLRKCKEMGMLAECLL TE
 IQCKSKRLRKNVKQHADQTVNEDSEGRDLRQVTSTTKSREKTELTPDQQTLLHFIMDSYNKQRMPEIT
 NKILKEEFSAEENFLILTEMATNHVQVLVEFTKKLPGFQTLDHEDQIALLKGSVAEAMFLRSAEIFNKKL
 PSGHSDLLEERIRNSGISDEYITPMFSFYKSIGELKMTQEEYALLTAIVILSPDRQYIKDREAVEKLQEP
 LLDVQLKLCIKHPENPQHFACLLGRLELRTFNHHHAEMLSWRVNDHKFTPLLCIWDVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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_001206992.2
RefSeq Size:	1895 bp
RefSeq ORF:	1449 bp
Locus ID:	9971
UniProt ID:	Q96R11
Cytogenetics:	12q23.1
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
MW:	55.9 kDa
Gene Summary:	<p>This gene encodes a ligand-activated transcription factor that shares structural features in common with nuclear hormone receptor family members. This protein functions as a receptor for bile acids, and when bound to bile acids, binds to DNA and regulates the expression of genes involved in bile acid synthesis and transport. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Feb 2016]</p>