

Product datasheet for **RC232816**

Bile Acid Receptor (NR1H4) (NM_001206979) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bile Acid Receptor (NR1H4) (NM_001206979) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bile Acid Receptor
Synonyms:	BAR; FXR; HRR-1; HRR1; PFIC5; RIP14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC232816 representing NM_001206979
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGATCAAAAATGAATCTCATTGAACATTCCCATTTACCTACCACAGATGAATTTTCTTTTCTGAAA
 ATTTATTTGGTGTTTTAAACAGAACAAGTGGCAGGTCTCTGGACAGAACCTGGAAGTGAACCATACTC
 GCAATACAGCAATGTTTCAGTTTCCCAAGTTCAACCACAGATTTCTCGTCATCCTATTATTCCAACCTG
 GTTTTCTACCCAGCAGCCTGAAGAGTGGTACTCTCTGGAATATATGAACTCAGGCGTATGCCAGCTG
 AGACTCTCTACCAGGGAGAACTGAGGTAGCAGAGATGCCTGTAACAAAGAAGCCCCGCATGGGCGCTC
 AGCAGGGAGGATCAAAGGGGATGAGCTGTGTGTTGTTTGTGGAGACAGAGCCTCTGGATACCACTATAAT
 GCACTGACCTGTGAGGGGTGTAAGGTTTCTTCAGGAGAAGCATTACAAAAACGCTGTGTACAAGTGA
 AAAACGGGGCAACTGTGTGATGGATATGTACATGCGAAGAAAGTGTCAAGAGTGTGACTAAGGAAATG
 CAAAGAGATGGGAATGTTGGCTGAATGTATGTATACAGGCTTGTAACTGAAATTCAGTGTAAATCTAAG
 CGACTGAGAAAAATGTGAAGCAGCATGCAGATCAGACCGTGAATGAAGACAGTGAAGGTCGTGACTTGC
 GACAAGTGACCTCGACAACAAAGTCATGCAAGGGAGAAAATGAACTCACCCAGATCAACAGACTCTTCT
 ACATTTTATTATGGATTCATATAACAAACAGAGGATGCCTCAGGAAATAACAAATAAAAATTTAAAGAA
 GAATTCAGTGCAGAAGAAAATTTCTCATTTTTCAGGAAATGGCAACCAATCATGTACAGGTTCTTGTAG
 AATTCACAAAAAGCTACCAGGATTTGAGACTTTGACCATGAAGACCAGATTGCTTTGTGAAAGGGTC
 TGCGGTGAAGCTATGTTCTTCGTTGAGCTGAGATTTTCAATAAGAACTTCCGCTGGGCATTCTGAC
 CTATTGGAAGAAAGAAATTCGAAATAGTGGTATCTCTGATGAATATATAACACCTATGTTTAGTTTTATA
 AAAGTATTGGGGAAGTGAATGACTCAAGAGGAGTATGCTCTGCTTACAGCAATTGTTATCCTGTCTCC
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 AAGTTGTGAAGATTCACCAGCCTGAAAATCCTCAACACTTTGCCTGTCTCCTGGGTCGCTGACTGAAT
 TACGGACATTCAATCATCACCACGCTGAGATGCTGATGTCATGGAGAGTAAACGACCACAAGTTTACCC
 ACTTCTGTGAAATCTGGGACGTGCAG

ACCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232816 representing NM_001206979
 Red=Cloning site Green=Tags(s)

MGSKMNLIEHSHLPTTDEFSENLFGVLTQVAGPLGQNLVEVPYSQYSNVQFPQVQPQISSSSYYSNL
 GFYPQQPEEWYSPGIYELRRMPAETLYQGETEVAEMPVTKKPRMGASAGRIKGDLCVVCGRASGYHYN
 ALTCEGCKGFFRRSITKNAVYKCKNGGNCVMDMYMRRKCQECRLRKCKEMGMLAECMYTGLLTEIQCKSK
 RLKRNKQHADQTVNEDSEGRDLRQVTSTTKSREKTELTPDQQTLLHFIMDSYNKQRMPEITNKILKE
 EFSAEENFLILTEMATNHVQVLVEFTKLPGFQTLDHEDQIALLKGSVAEAMFLRSAEIFNKKLPSGHS
 LLEERIRNSGISDEYITPMFSFYKISIGELKMTQEEYALLTAIVILSPDRQYIKDREAVEKLQEPLLDVLQ
 KLCKIHQPENPQHFACLLGRLELRTFNHHAEMLSWRVNDHKFTPLLCEIWDVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

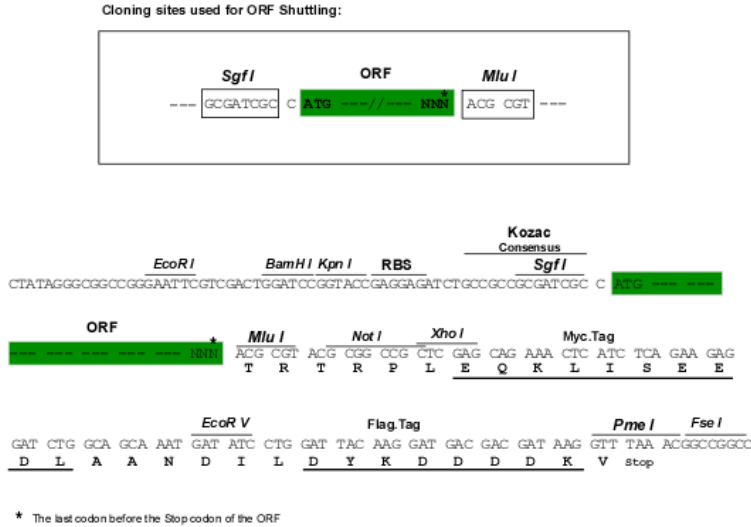
Chromatograms:

https://cdn.origene.com/chromatograms/ja2702_g06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001206979

ORF Size: 1428 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_001206979.2](#)

RefSeq Size: 2325 bp

RefSeq ORF: 1431 bp

Locus ID: 9971

UniProt ID: [Q96RI1](#)

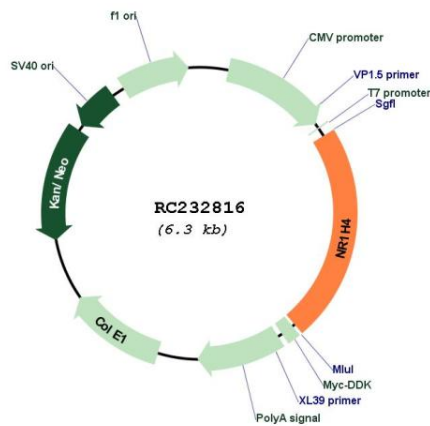
Cytogenetics: 12q23.1

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

MW: 54.9 kDa

Gene Summary: 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]

Product images:



Circular map for RC232816