

Product datasheet for **RG217443**

Bile Acid Receptor (NR1H4) (NM_005123) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bile Acid Receptor (NR1H4) (NM_005123) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bile Acid Receptor
Synonyms:	BAR; FXR; HRR-1; HRR1; PFIC5; RIP14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217443 representing NM_005123
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGATCAAAAATGAATCTCATTGAACATTCCCATTTACCTACCACAGATGAATTTTCTTTTCTGAAA
 ATTTATTTGGTGTTTAACAGAACAAAGTGGCAGGTCTCTGGACAGAACCTGGAAGTGAACCATACTC
 GCAATACAGCAATGTTTCAGTTTCCCAAGTTCAACCACAGATTTCTCGTCATCCTATTATTCCAACCTG
 GTTTTCTACCCAGCAGCCTGAAGAGTGGTACTCTCTGGAATATATGAACTCAGGCGTATGCCAGCTG
 AGACTCTCTACCAGGGAGAACTGAGGTAGCAGAGATGCCTGTAACAAAGAAGCCCCGCATGGGCGCTC
 AGCAGGGAGGATCAAAGGGGATGAGCTGTGTGTTGTTTGTGGAGACAGAGCCTCTGGATACCACTATAAT
 GCACTGACCTGTGAGGGGTGTAAGGTTTCTTCAGGAGAAGCATTACCAAAAACGCTGTGTACAAGTGTA
 AAAACGGGGCAACTGTGTGATGGATATGTACATGCGAAGAAAGTGTCAAGAGTGTGACTAAGGAAATG
 CAAAGAGATGGGAATGTTGGCTGAATGCTTGTAACTGAAATTCAGTGTAAATCTAAGCGACTGAGAAAA
 AATGTGAAGCAGCATGCAGATCAGACCGTGAATGAAGACAGTGAAGGTCGTGACTTGCGACAAGTGACCT
 CGACAACAAAGTCATGCAGGGAGAAAATGAACTCACCCAGATCAACAGACTCTTCTACATTTTATTAT
 GGATTCATATAACAAACAGAGGATGCCTCAGGAAATAACAAATAAAATTTTAAAAGAAGAATTCAGTGCA
 GAAGAAAATTTTCTCATTTTACCGGAAATGGCAACCAATCATGTACAGGTTCTTGTAGAATTCACAAAAA
 AGCTACCAGGATTTACAGCTTTGGACCATGAAGACCAGATTGCTTTGCTGAAAGGGTCTGCGGTTGAAGC
 TATGTTCTTCGTTTCAGCTGAGATTTTCAATAAGAAAATCCGCTCTGGGCATTCTGACCTATTGGAAGAA
 AGAATTCGAAATAGTGGTATCTCTGATGAATATATAACACCTATGTTTAGTTTTTATAAAAGTATTGGGG
 AACTGAAAATGACTCAAGAGGAGTATGCTCTGCTTACAGCAATTGTTATCCTGTCTCCAGATAGACAATA
 CATAAAGGATAGAGAGGCAGTAGAGAAGCTTCAGGAGCCACTTCTTGATGTGCTACAAAAGTTGTGTAAG
 ATTCACCAGCCTGAAAATCCTCAACACTTTGCCTGTCTCCTGGGTCGCTGACTGAATTACGGACATTCA
 ATCATACCACGCTGAGATGCTGATGTCATGGAGAGTAAACGACCACAAGTTTACCCCACTTCTCTGTGA
 AATCTGGGACGTGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217443 representing NM_005123
 Red=Cloning site Green=Tags(s)

MGSKMNLIEHSHLPTTDEFSENLFGVLTQVAGPLGQNLVEPYSQYSNVQFPQVQPQISSSSYYSNL
 GFYPQQPEEWYSPGIYELRRMPAETLYQGETEVAEMPVTKKPRMGASAGRIKGDLCVVCGRASGYHYN
 ALTCEGCKGFFRRSITKNAVYKCKNGGNCVMDMYMRRKCQECRLRKCKEMGMLAECLLTEIQCKSKRLRK
 NVKQHADQTVNEDSEGRDLRQVTSTTKSREKTELTPDQQTLLHFIMDSYNKQRMPEITNKILKEEFS
 EENFLILTEMATNHVQVLVEFTKLPGFQTLDHEDQIALLKGSVAEAMFLRSAEIFNKKLPSGHSDLLEE
 RIRNSGISDEYITPMFSFYKSIIGELKMTQEEYALLTAIVILSPDRQYIKDREAVEKLEPPLLDVLLKCK
 IHQPENPQHFAELLGRLTELRTFNHHAEMLSWRVNDHKFTPLLCEIWDVQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005123

ORF Size: 1416 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](#)

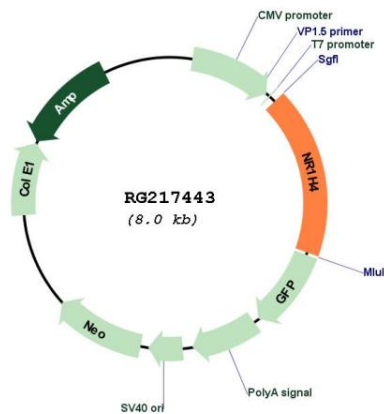
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_005123.4](#)
RefSeq Size: 2218 bp
RefSeq ORF: 1419 bp
Locus ID: 9971
UniProt ID: [Q96R11](#)
Cytogenetics: 12q23.1
Domains: HOLI, zf-C4
Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
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 RG217443