

Product datasheet for **RG232815**

Bile Acid Receptor (NR1H4) (NM_001206977) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bile Acid Receptor (NR1H4) (NM_001206977) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NR1H4
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:

>RG232815 representing NM_001206977
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGATCAAAAATGAATCTCATTGAACATTCCCATTTACCTACCACAGATGAATTTTCTTTTCTGAAA
 ATTTATTTGGTGTTTAACAGAACAAAGTGGCAGGTCTCTGGACAGAACCTGGAAGTGGAAACCATACTC
 GCAATACAGCAATGTTTCAGTTTCCCAAGTTCAACCACAGATTTCTCGTCATCCTATTATTCCAACCTG
 GTTTTCTACCCAGCAGCCTGAAGAGTGGTACTCTCTGGAATATATGAACTCAGGCGTATGCCAGCTG
 AGACTCTCTACCAGGGAGAACTGAGGTAGCAGAGATGCCTGTAACAAAGAAGCCCCGCATGGGCGCTC
 AGCAGGGAGGATCAAAGGGGATGAGCTGTGTGTTGTTTGTGGAGACAGAGCCTCTGGATACCACTATAAT
 GCACTGACCTGTGAGGGGTGTAAGGTTTCTTCAGGAGAAGCATTACCAAAAACGCTGTGTACAAGTGTA
 AAAACGGGGCAACTGTGTGATGGATATGTACATGCCAAGAAAGTGTCAAGAGTGTGACTAAGGAAATG
 CAAAGAGATGGGAATGTTGGCTGAATGTATGTATACAGGCTTGTAACTGAAATTCAGTGTAAATCTAAG
 CGACTGAGAAAAATGTGAAGCAGCATGCAGATCAGACCGTGAATGAAGACAGTGAAGGTCGTGACTTGC
 GACAAGTGACCTCGACAACAAAGTCATGCAAGGGAGAAAACCTGAACTCACCCAGATCAACAGACTCTTCT
 ACATTTTATTATGGATTCATATAACAAACAGAGGATGCCTCAGGAAATAACAAATAAAATTTTAAAGAA
 GAATTCAGTGCAGAAGAAAATTTTCTCATTTTGACGGAATGGCAACCAATCATGTACAGGTTCTTGTAG
 AATTCACAAAAAGCTACCAGGATTTGAGACTTTGACCATGAAGACCAGATTGCTTTGTGAAAGGGTC
 TGCGGTGAAGCTATGTTCTTCGTTGAGCTGAGATTTTCAATAAGAACTTCCGTCTGGCATTCTGAC
 CTATTGGAAGAAAGAAATTCGAAATAGTGGTATCTCTGATGAATATATAACACCTATGTTTAGTTTTATA
 AAAGTATTGGGAACTGAAAATGACTCAAGAGGAGTATGCTCTGCTTACAGCAATTGTTATCCTGTCTCC
 AGATAGACAATACATAAAGGATAGAGAGGCAGTAGAGAAGCTTCAGGAGCCACTTCTTGATGTGCTACAA
 AAGTTGTGAAGATTCACCAGCCTGAAAATCCTCAACACTTTGCCTGTCTCCTGGGTCGCTGACTGAAT
 TACGGACATTCAATCATCACCACGCTGAGATGCTGATGTCATGGAGAGTAAACGACCACAAGTTTACCCC
 ACTTCTGTGAAATCTGGGACGTGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232815 representing NM_001206977
 Red=Cloning site Green=Tags(s)

MGSKMNLIEHSHLPTTDEFSENLFGVLTQVAGPLGQNLEVEPYSQYSNVQFPQVQPQISSSSYYSNL
 GFYPQQPEEWYSPGIYELRRMPAETLYQGETEVAEMPVTKKPRMGASAGRIKGDCLCVVCGDRASGYHYN
 ALTCEGCKGFFRRSITKNAVYKCKNGGNCVMDMYMRRKCQECRLRKCKEMGMLAECMYTGLLTEIQCKSK
 RLRKNVKQHADQTVNEDSEGRDLRQVTSTKSCREKTELTPDQQTLLHFIMDSYNKQRMPEITNKILKE
 EFSAEENFLILTEMATNHVQVLVEFTKKLPGFQTLDHEDQIALLKGSVAEAMFLRSAEIFNKKLPSGHS
 LLEERIRNSGISDEYITPMFSFYKSIGELKMTQEEYALLTAIVILSPDRQYIKDREAVEKLQEPLLDVQL
 KLCKIHQPENPQHFACLLGRLELRTFNHHAEMLSWRVNDHKFTPLLCEIWDVQ

TRTRPLE – GFP Tag – V

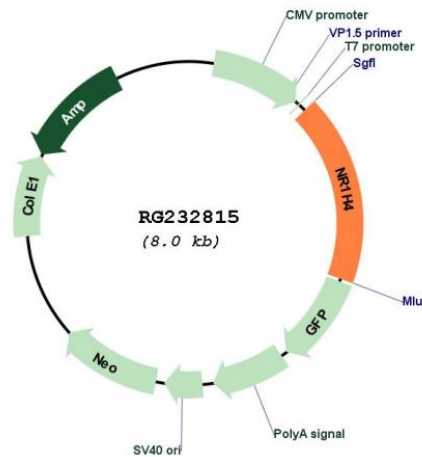
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001206977

ORF Size: 1428 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_001206977.2](#)

RefSeq Size: 2492 bp

RefSeq ORF: 1431 bp

Locus ID: 9971

UniProt ID: [Q96R11](#)

Cytogenetics: 12q23.1

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]