

Product datasheet for **RG232700**

Bile Acid Receptor (NR1H4) (NM_001206978) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Bile Acid Receptor (NR1H4) (NM_001206978) 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) |
| ORF Nucleotide Sequence: | >RG232700 representing NM_001206978 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGATCAAAAATGAATCTCATTGAACATTCACATTTACCTACCACAGATGAATTTTCTTTTCTGAAA
ATTTATTTGGTGTTTAACAGAACAAGTGGCAGGTCTCTGGACAGAACCTGGAAGTGGAAACCATACTC
GCAATACAGCAATGTTTCAGTTTCCCAAGTTCAACCACAGATTTCTCGTCATCTATTATTCCAACCTG
GGTTTCTACCCAGCAGCCTGAAGAGTGGTACTCTCTGGAATATATGAACTCAGGCGTATGCCAGCTG
AGACTCTCTACCAGGGAGAACTGAGGTAGCAGAGATGCCTGTAACAAAGAAGCCCCGCATGGGCGCGTC
AGCAGGGAGGATCAAAGGGGATGAGCTGTGTGTTGTTGGAGACAGAGCCTCTGGATACCACTATAAT
GCACTGACCTGTGAGGGGTGAAAGGCTTGTTAACTGAAATTCAGTGAAATCTAAGCGACTGAGAAAAA
ATGTGAAGCAGCATGCAGATCAGACCGTGAATGAAGACAGTGAAGGTCGTGACTTGCGACAAGTGACCTC
GACAACAAAGTCATGCAGGGAGAAAACCTGAACTCACCCAGATCAACAGACTCTTCTACATTTTATTATG
GATTCATATAACAAACAGAGGATGCCTCAGGAAATAACAAATAAAATTTAAAAGAAGAATTCAGTGCGAG
AAGAAAATTTTCTCATTTTGACGGAAATGGCAACCAATCATGTACAGGTTCTTGTAGAATTCACAAAAA
GCTACCAGGATTCAGACTTTGGACCATGAAGACCAGATTGCTTTGCTGAAAGGGTCTGCGGTTGAAGCT
ATGTTCTTCGTTTCAGCTGAGATTTTCAATAAGAAACTCCGCTGGGCATTCTGACCTATTGGAAGAAA
GAATTCGAAATAGTGGTATCTCTGATGAATATATAACACCTATGTTTAGTTTTATAAAAGTATTGGGGA
ACTGAAAATGACTCAAGAGGAGTATGCTCTGCTTACAGCAATTGTATCTGTCTCCAGATAGACAATAC
ATAAAGGATAGAGAGGCAGTAGAGAAGCTTACAGGACCACTTCTTGATGTGCTACAAAAGTTGTGTAAGA
TTCACCAGCCTGAAAATCCTCAACACTTTGCTGTCTCTGGGTCGCTGACTGAATTACGGACATTCAA
TCATCACCAGCTGAGATGCTGATGTCATGGAGAGTAAACGACCACAAGTTTACCCCACTTCTGTGAA
ATCTGGGACGTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232700 representing NM_001206978
 Red=Cloning site Green=Tags(s)

MGSKMNLIEHSHLPTTDEFSENLFGVLTQVAGPLGQNLEVEPYSQYSNVQFPVQVQPQISSSSYYSNL
 GFYPQQPEEWYSPGIYELRRMPAETLYQGETEVAEMPVTKKPRMGASAGRIKGDDEL CVVCGDRASGYHYN
 ALTCEGCKGLL TEIQCKSKRLRKNVKQHADQTVNEDSEGRDLRQVTSTTKSCREKTELTPDQQTLLHFIM
 DSYNKQRMPEIITNKILKEEFSAEENFLILTEMATNHVQVLVEFTKKLPGFQTLDHEDQIALLKGSVEA
 MFLRSAEIFNKKLP SGHSDLLEERIRNSGISDEYITPMFSFYKSIGELKMTQEEYALLTAIVILSPDRQY
 IKDREAVEKLEPELLDVLQKLCIKHPENPQHFA CLLGRLTELRTFNHHHAEMLSWRVNDHKFTPLLCE
 IWDVQ

TRTRPLE - GFP Tag - V

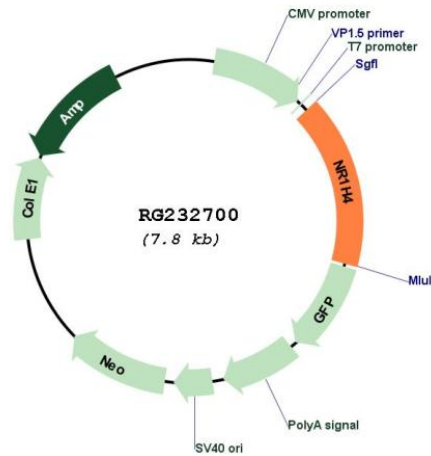
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001206978

| | |
|-------------------------------|---|
| ORF Size: | 1275 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: | <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_001206978.2 |
| RefSeq Size: | 2172 bp |
| RefSeq ORF: | 1278 bp |
| Locus ID: | 9971 |
| UniProt ID: | Q96RI1 |
| 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] |