

Product datasheet for **RC232700**

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: 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
ORF Nucleotide Sequence: >RC232700 representing NM_001206978
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGATCAAAAATGAATCTCATTGAACATTCCCATTACCTACCACAGATGAATTTCTTTTTCTGAAA
ATTTATTTGGTGTTTAACAGAACAAGTGGCAGGTCTCTGGGACAGAACCTGGAAGTGAACCATACTC
GCAATACAGCAATGTTTCAGTTTCCCAAGTTCAACCACAGATTTCTCGTCATCCTATTATCCAACCTG
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AGCAGGGAGGATCAAAGGGGATGAGCTGTGTGTTTGTGGAGACAGAGCCTCTGGATACCACTATAAT
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GACAACAAAGTGCAGGGAGAAAAGTGAACCTCACCCAGATCAACAGACTCTTCTACATTTTATTATG
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ACTGAAATGACTCAAGAGGAGTATGCTCTGCTTACAGCAATTGTATCCTGTCTCCAGATAGACAATAC
ATAAAGGATAGAGAGGCAGTAGAGAAGCTTCAAGAGCCACTTCTGATGTGCTACAAAAGTTGTGTAAGA
TTCACCAGCTGAAAATCCTCAACTTTGCTGTCTCCTGGTGCCTGACTGAATTACGGACATTCAA
TCATACCACGCTGAGATGCTGATGTCATGGAGAGTAAACGACCACAAGTTTACCCCACTCTCTGTGAA
ATCTGGGACGTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC232700 representing NM_001206978
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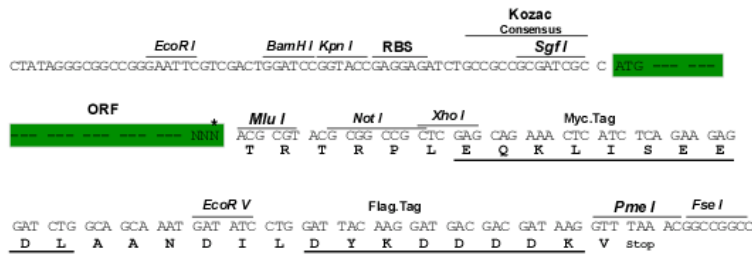
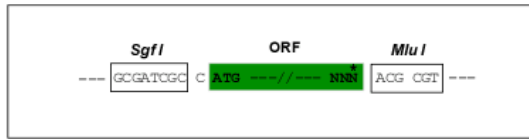
MGSKMNLIEHSHLPTTDEFSENLFGVLTQVAGPLGQNLEVEPYSQYSNVQFPQVQPQISSSSYYSNL
 GFYPQQPEEWYSPGIYELRRMPAETLYQGETEVAEMPVTKKPRMGASAGRIKGDDEL CVVCGDRASGYHYN
 ALTCEGCKGLL TEIQCKSKRLRKNVKQHADQTVNEDSEGRDLRQVTSTTKSCREKTELTPDQQTLLHFIM
 DSYNKQRMPEITNKILKEEFSAEENFLILTEMATNHVQVLFVETKCLKPGFQTLDHEDQIALLKGSVEA
 MFLRSAEIFNKKLP SGHSDLLEERIRNSGISDEYITPMFSFYKSI GELKMTQEEYALLTAIVILSPDRQY
 IKDREAVEKLEPELLDVLQKLCIKHPENPQHFA CLLGR LTELRTFNHHHAEMLSWRVNDHKFTPLLCE
 IWDVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:
Cloning Scheme:

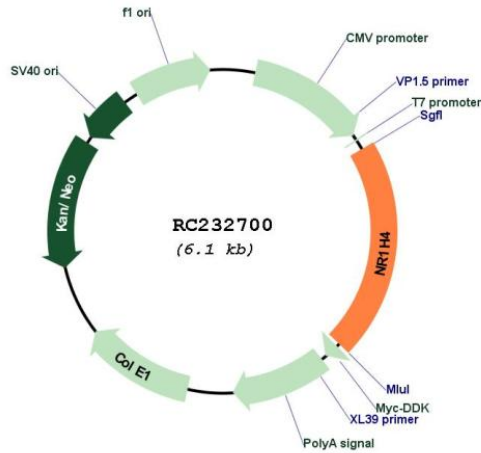
SgfI-MluI

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:	Q96R11
Cytogenetics:	12q23.1
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
MW:	49.2 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]