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Product datasheet for SC116941

Bile Acid Receptor (NR1H4) (NM_005123) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bile Acid Receptor (NR1H4) (NM_005123) Human Untagged Clone
Tag:	Tag Free
Symbol:	Bile Acid Receptor
Synonyms:	BAR; FXR; HRR-1; HRR1; PFIC5; RIP14
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_005123 edited
TAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGAATTT
TGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACCAGGGAACTCTCTCCTCCTC
CTCACCTCATTGTCTCCCCGACTTATCCTAATGCGAAATTGGATTCTGAGCATTTGTAGC
AAAATCGCTGGGATCTGGAGAGGAAGACTCAGTCCAGAATCCTCCCAGGGCCTTGAAAGT
CCATCTCTGACCCAAAACAATCCAAGGAGGTAGAAGACATCGTAGAAGGAGTGAAAGAAG
AAAAGAAGACTTAGAAACATAGCTCAAAGTGAACACTGCTTCTCTTAGTTTCCTGGATTT
CTTCTGGACATTTCCTCAAGATGAAACTTCAGACACTTTGGAGTTTTTTTTGAAGACCAC
CATAAAGAAAGTGCATTTCAATTGAAAAATTTGGATGGGATCAAAAATGAATCTCATTGA
ACATTCCCATTTACCTACCACAGATGAATTTTCTTTTTCTGAAAATTTATTTGGTGTTTT
AACAGAACAAGTGGCAGGTCCTCTGGGACAGAACCTGGAAGTGGAACCATACTCGCAATA
CAGCAATGTTCAGTTTCCCCAAGTTCAACCACAGATTTCCTCGTCATCCTATTATTCCAA
CCTGGGTTTCTACCCCCAGCAGCCTGAAGAGTGGTACTCTCCTGGAATATATGAACTCAG
GCGTATGCCAGCTGAGACTCTCTACCAGGGAGAAACTGAGGTAGCAGAGATGCCTGTAAC
AAAGAAGCCCCGCATGGGCGCGTCAGCAGGGAGGATCAAAGGGGATGAGCTGTGTGTTGT
TTGTGGAGACAGAGCCTCTGGATACCACTATAATGCACTGACCTGTGAGGGGTGTAAAGG
TTTCTTCAGGAGAAGCATTACCAAAAACGCTGTGTACAAGTGTAAAAACGGGGGCAACTG
TGTGATGGATATGTACATGCGAAGAAAGTGTCAAGAGTGTCGACTAAGGAAATGCAAAGA
GATGGGAATGTTGGCTGAATGCTTGTTAACTGAAATTCAGTGTAAATCTAAGCGACTGAG
AAAAAATGTGAAGCAGCATGCAGATCAGACCGTGAATGAAGACAGTGAAGGTCGTGACTT
GCGACAAGTGACCTCGACAACAAAGTCATGCAGGGAGAAAACTGAACTCACCCCAGATCA
ACAGACTCTTCTACATTTTATTATGGATTCATATAACAAACAGAGGATGCCTCAGGAAAT
AACAAATAAAATTTTAAAAGAAGAATTCAGTGCAGAAGAAAATTTTCTCATTTTGACGGA
AATGGCAACCAATCATGTACAGGTTCTTGTAGAATTCACAAAAAAGCTACCAGGATTTCA
GACTTTGGACCATGAAGACCAGATTGCTTTGCTGAAAGGGTCTGCGGTTGAAGCTATGTT
CCTTCGTTCAGCTGAGATTTTCAATAAGAAACTTCCGTCTGGGCATTCTGACCTATTGGA
AGAAAGAATTCGAAATAGTGGTATCTCTGATGAATATATAACACCTATGTTTAGTTTTTA
TAAAAGTATTGGGGAACTGAAAATGACTCAAGAGGAGTATGCTCTGCTTACAGCAATTGT
TATCCTGTCTCCAGATAGACAATACATAAAGGATAGAGAGGCAGTAGAGAAGCTTCAGGA
GCCACTTCTTGATGTGCTACAAAAGTTGTGTAAGATTCACCAGCCTGAAAATCCTCAACA
CTTTGCCTGTCTCCTGGGTCGCCTGACTGAATTACGGACATTCAATCATCACCACGCTGA
GATGCTGATGTCATGGAGAGTAAACGACCACAAGTTTACCCCACTTCTCTGTGAAATCTG
GGACGTGCAGTGATGGGGATTACAGGGGAGGGGTCTAGCTCCTTTTTCTCTCTCATATTA
ATCTGATGTATAACTTTCCTTTATTTCACTTGTACCCAGTTTCACTCAAGAAATCTTGAT
GAATATTTATGTTGTAATTACATGTGTAACTTCCACAACTGTAAATATTGGGCTAGATAG
AACAACTTTCTCTACATTGTGTTTTAAAAGGCTCCAGGGAATCCTGCATTCTAATTGGCA
AGCCCTGTTTGCCTAATTAAATTGATTGTTACTTCAATTCTATCTGTTGAACTAGGGAAA
ATCTCATTTTGCTCATCTTACCATATTGCATATATTTTATTAAAGAGTTGTATTCAATCT
TGGC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005123 unedited
CACCAGGNACTCTCTCCTCCTCCTCACCTCATTGTCTCCCCGACTTATCCTAATGCGAAA
TTGGATTCTGAGCATTTGTAGCAAAATCGCTGGGATCTGGAGAGGAAGACTCAGTCCAGA
ATCCTCCCAGGGCCTTGAAAGTCCATCTCTGACCCAAAACAATCCAAGGAGGTAGAAGAC
ATCGTAGAAGGAGTGAAAGAAGAAAAGAAGACTTAGAAACATAGCTCAAAGTGAACACTG
CTTCTCTTAGTTTCCTGGATTTCTTCTGGACATTTCCTCAAGATGAAACTTCAGACACTT
TGGAGTTTTTTTTGAAGACCACCATAAAGAAAGTGCATTTCAATTGAAAAATTTGGATGG
GATCAAAAATGAATCTCATTGAACATTCCCATTTACCTACCACAGATGAATTTTCTTTTT
CTGAAAATTTATTTGGTGTTTTAACAGAACAAGTGGCAGGTCCTCTGGGACAGAACCTGG
AAGTGGAACCATACTCGCAATACAGCAATGTTCAGTTTCCCCAAGTTCAACCACAGATTT
CCTCGTCATCCTATTATTCCAACCTGNGTTTCTACCCCCAGCAGCCTGAAGAGTGGTACT
CTCCTGNAATATATGAACTCANGCGTATGCCAGCTGAG

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_005123 unedited
TATCTCTGGACCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT
TTTGCCATTATGTTTGCTTTATTGCCAAAATTGAATACAACTCTTTAATAAAATATATGC
AATATGGTAAGATGAGCAAAATGAGATTTTCCCTAGTTCAACAGATAGAATTGAAGTAAC
AATCAATTTAATTAGGCAAACAGGGCTTGCCAATTAAAATGCAGGATTCCCTGGAGCCTT
TTAAAACACAATGTAAAGAAAGTTGTTCTATCTAGCCCAATATTTACAGTTGTGGAAGTT
ACACATGTAATTACAACATAAATATTCATCAAGATTTCTTGAGTGAAACTGGGTACAAGT
GAAATAAAGGAAAGTTATACATCAGATTAATATGAGAGAGAAAAAGGAGCTAGACCCCTC
CCCTGTAATCCCCATCACTGCACGTCCCAGATTTCACAGAGAAGTGGGGTAAACTTGTGG
TCGTTTACTCTCCATGACATCAGCATCTCAGCGTGGTGATGATTGAATGTCCGTAATTCA
GTCAGGCGACCCAGGAGACAGGCAAAGTGTTGAGGATTTTCAGGCTGGTGAATCTTACAC
AACTTTTGTAGCACATCAAGAAGTGGCTCCTGAAGCTTCTCTACTGCCTCTCTATCCTTT
ATGTATTGGCTATCTGGAGACAGGATAACAATTGCTGNTAGCAGAGCATACTNCTCTTGA
GTCATTTTCAGTTCCCCAATACTTTTATAAAAACTAAACATANNNGTGTATATATTCATC
AGAGATACCACTATTTTCGAATTCTTTCTTNCCATAGGTCAGAATGCCCAGACGGAAAGT
TTCTTATTGAAATCTCAGCTGAACGAAGGAACATAGCTCAACCGCAGACCCTTTCAGCAA
GCATCTGGGCTTCATGGNCCAAGTCTGAAATCTGGAGCTTTTTGGGGATCTACAGAACTG
ACATGGATGGTGCCATTTC
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Restriction Sites: NotI-NotI

ACCN: NM_005123

Insert Size: 2240 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

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_005123.1, NP_005114.1

RefSeq Size:	2218 bp
RefSeq ORF:	1419 bp
Locus ID:	9971
UniProt ID:	Q96RI1
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] Transcript Variant: This variant (2) uses an alternate in-frame splice site compared to variant 1. This results in a shorter isoform (2, also known as FXRalpha-) compared to isoform 1.