

## Product datasheet for **SC116564**

### LXR alpha (NR1H3) (NM\_005693) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LXR alpha (NR1H3) (NM_005693) Human Untagged Clone
Tag:	Tag Free
Symbol:	LXR alpha
Synonyms:	LXR-a; LXRA; RLD-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_005693 edited  
 ATGTCCTTGTGGCTGGGGCCCCCTGTCCTGACATTCCTCCTGACTCTGCGGTGGAGCTG  
 TGAAGCCAGGCCACAGGATGCAAGCAGCCAGGCCAGGGCAGCAGCTGCATCCTC  
 AGAGAGGAAGCCAGGATGCCCACTCTGCTGGGGTACTGCAGGGGTGGGGCTGGAGGCT  
 GCAGAGCCACAGCCCTGCTCACCAGGGCAGAGCCCCCTCAGAACCACAGAGATCCGT  
 CCACAAAAGCGGAAAAGGGGCCAGCCCCAAAATGCTGGGGAACGAGCTATGCAGCGTG  
 TGTGGGGACAAGGCCTCGGGCTTCCACTACAATGTTCTGAGCTGCGAGGGCTGCAAGGGA  
 TTCTTCCGCCGACGCTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGGCCACTGC  
 CCCATGGACACCTACATGCGTCGCAAGTGCCAGGAGTGTGGCTTCGCAAATGCCGTCAG  
 GCTGGCATGCGGGAGGAGTGTGCTCCTGTCAGAAGAACAGATCCGCCTGAAGAACTGAAG  
 CGCAAGAGGAGGAACAGGCTCATGCCACATCCTTGCCCCCAGGGCTTCTCACCCCC  
 CAAATCCTGCCAGCTCAGCCCGAACAACCTGGGCATGATCGAGAAGCTCGTCGCTGCC  
 CAGCAACAGTGTAAACGGCGCTCCTTTTCTGACCGGCTTCGAGTACGCCTTGGCCCATG  
 GCACCAGATCCCCATAGCCGGGAGGCCCGTCCAGCAGCGCTTTGCCCACTTCACTGAGCTG  
 GCCATCGTCTCTGTGCAGGAGATAGTTGACTTTGCTAAACAGCTACCCGGCTTCTGCAG  
 CTCAGCCGGGAGGACCAGATTGCCCTGCTGAAGACCTCTGCGATCGAGGTGATGCTTCTG  
 GAGACATCTCGGAGGTACAACCTGGGAGTGAGAGTATCACCTTCTCAAGGATTTCACT  
 TATAACCGGGAAGACTTTGCCAAAGCAGGGCTGCAAGTGAATTCATCAACCCCATCTTC  
 GAGTTCTCCAGGGCCATGAATGAGCTGCAACTCAATGATGCCAGTTTGCCTTGTCTATT  
 GCTATCAGCATCTTCTCTGCAGACCGGCCAACGTGCAGGACCAGCTCCAGGTAGAGAGG  
 CTGCAGCACACATATGTGGAAGCCCTGCATGCCTACGTCTCCATCCACCATCCCCATGAC  
 CGACTGATGTTCCACGGATGCTAATGAAACTGGTGAAGCTCCGGACCCTGAGCAGCGTC  
 CACTCAGAGCAAGTGTGTTGCACTGCGTCTGCAGGACAAAAAGCTCCCACCCTGCTCTCT  
 GAGATCTGGGATGTGCACGAATGA



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**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_005693 unedited  
 GGGGGNNNCNNTTTTTNNNNNNNGGTTTCAGAATTGNATACGACTCCTATAGGCGGCCG  
 CGNAATTCGCACCAGGTCTGCTTGTGCTCAGCTCCAGCTCACTGGCTGGCCACCGAGAC  
 TTCTGGACAGGAAACTGCACCATCTCTTCTCCAGCAAGGGGGTCCAGAGACTGCCCA  
 CCCAGGAAGTCTGGTGGCTGGGGATTTGGACAGTGCCTTGGTAATGACCAGGGCTCCAG  
 GAAGAGATGTCTTGTGGCTGGGGCCCTGTGCCTGACATTCTCTGACTCTGCGGTG  
 GAGCTGTGGAAGCCAGGCACAGGATGCAAGCAGCCAGGCCAGGGAAGGCAGCAGCTG  
 CATCCTCAGAGAGGAAGCCAGGATGCCCACTCTGCTGGGGTACTGCAGGGTGGGGCT  
 GGAGGCTGCAGAGCCACAGCCCTGCTCACCAGGGCAGAGCCCTTTCAGAACCCACAGA  
 GATCCGTCACAAAAGCGGAAAAAGGGCCAGCCCCANAATGCTGNGAACGAGCTATG  
 CAGCGTGTGTGGGACAAGGCTNCGGCTTCCACTACAATGTTCTGAGCTGCGAGGGCTG  
 CAGGGGATTTCTCGCCGACGCTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGG  
 CCACTNGCCCATGGACACCTACATGCGTCGCAAGTCCAGGAGTGTCCGCTTCGAAATG  
 CCGTCAGGCTGGCATGCCGGAGGAGTGTCTGTGTCAGAGAACAGATCCGCCTGAAGAA  
 AACTGAGCCGCCAGAAGGAGGAACAGGCTCATGCCACATNCCTTTGCCNNCCAGGCTTT  
 TCTCACCCNCCAAANCTGCCCCAGCTCAGCCGNAACAACCTGGGCATGAATCGAGA  
 AGCTCGTCCCTGCCACCAACAGTGGTAACCGGNCGCTCCTTTTCTTGACCGGCTTCNGA  
 TCCACGCCTGGGCCATGGCACCAGATCCATAACCGGNNAGCCCGTTACAAGCGCTTTG  
 CCCCACTTACTGAGCTGGGCATCGGCTCTGGGCAGGAGGAAATTGAC

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_005693 unedited  
 CGGAGAGGCACTGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCT  
 ATGATTTTCGCGCCCAATCTAGAGTGCAGTTTTTTTTTTGGTTTTTTTTTAAACCTTTGAC  
 TCTCTTTTAAATGCCACGGGAGGATCTCCTTGCCAGCTCCAGGAATGTTTGCCCTTCTC  
 AGTCTGTTCCACTTCTAGGAGGCAGCCACCAGGCTCAGCCATCCGGCCAAGAAAACAGA  
 AAATATGGGGACAGAACAGTCATTTCGTGCACATCCCAGATCTCAGAGAGCAGCGTGGGA  
 GCTTTTTGTCTGCAGACGCACTGCAAACACTTGTCTGAGTGGACGCTGCTCAGGGTCC  
 GGAGGCTCACCAGTTTCATTAGCATCCGTGGGAACATCAGTCGGTCATGGGGATGGTGA  
 TGGAGACGTAGGCATGCAGGGCTCCACATATGTGTGCTGCAGCCTCTCTACCTGGAGCT  
 GGTCTGCACGTTGGGCCGCTGCAGAGAAGATGCTGATAGCAATGAGCAAGGCAAACCT  
 CGGCATCATTGAGTTGCAGCTCATTATGGCCCTGGAGAACTCGAAGATGGGGTTGATGA  
 ATTCCACTTGACCCCTGCTTTGGCAAAGTCTTCCNCGTTATAACTGANATCCTTGAGGA  
 AGGTGATACTCTCACTCCAGGGTTGTACCTCCGAGATGTCTCCAGAAGCATCACCTCGA  
 TCGCAGAGGTCTTCAGCAGGGCAATCTGGTCTNCCCGCTGAGCTGCAAGAAGCCGGTA  
 GCTGTTTAAACAAATC

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_005693

**Insert Size:** 1700 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](mailto: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\\_005693.1](#), [NP\\_005684.1](#)

**RefSeq Size:** 1528 bp

**RefSeq ORF:** 1344 bp

**Locus ID:** 10062

**UniProt ID:** [Q13133](#)

**Cytogenetics:** 11p11.2

**Domains:** HOLI, zf-C4

**Protein Families:** Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

**Protein Pathways:** PPAR signaling pathway

**Gene Summary:**

The protein encoded by this gene belongs to the NR1 subfamily of the nuclear receptor superfamily. The NR1 family members are key regulators of macrophage function, controlling transcriptional programs involved in lipid homeostasis and inflammation. This protein is highly expressed in visceral organs, including liver, kidney and intestine. It forms a heterodimer with retinoid X receptor (RXR), and regulates expression of target genes containing retinoid response elements. Studies in mice lacking this gene suggest that it may play an important role in the regulation of cholesterol homeostasis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Transcript Variant: This variant (1) represents the predominant transcript, and encodes isoform 1.