

## Product datasheet for **RC234144**

### LXR alpha (NR1H3) (NM\_001251934) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LXR alpha (NR1H3) (NM_001251934) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LXR alpha
Synonyms:	LXR-a; LXRA; RLD-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234144 representing NM\_001251934  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAGCAAACAAGCTGGAACCCGCTGGGTGGCACCTGCAAGCAGCCGCCGGACGACCCACTCTGCGG  
 TGGAGCTGTGGAAGCCAGGCGCACAGGATGCAAGCAGCCAGGCCAGGGAGGCAGCAGCTGCATCCCTCAG  
 AGAGGAAGCCAGGATGCCCACTCTGCTGGGGTACTGCAGGGGTGGGGCTGGAGGCTGCAGAGCCACA  
 GCCCTGCTCACCAGGGCAGAGCCCCCTTCAAGACCCACAGAGATCCGTCCACAAAAGCGAAAAAGGGGC  
 CAGCCCCAAAATGCTGGGAACGAGCTATGCAGCGTGTGTGGGACAAGGCCTCGGGCTTCCACTACAA  
 TGTTCTGAGCTGCGAGGGCTGCAAGGGATTCTCCGCCGACGCTCATCAAGGGAGCGCACTACATCTGC  
 CACAGTGGCGGCCACTGCCCATGGACACCTACATGCGTCGCAAGTGCCAGGAGTGTGGCTTCGCAAT  
 GCCGTGAGGCTGGCATGCGGGAGGAGTGTCTCTGTCAGAAGAACAGATCCGCCTGAAGAACTGAAGCG  
 GCAAGAGGAGGAACAGGCTCATGCCACATCCTTGCCCCCAGGGCTTCTCACCCCCAAAATCCTGCC  
 CAGCTCAGCCCGAACAACCTGGGATGATCGAGAAGCTCGTCGCTGCCAGCAACAGTGTAAACCGCGCT  
 CCTTTTCTGACCGGCTTCGAGTACGCCTTGGCCCATGGCACCAGATCCCATAGCCGGGAGGCCGCTCA  
 GCAGCGCTTTGCCCACTTCACTGAGCTGGCCATCGTCTCTGTGCAGGAGATAGTTGACTTTGCTAAACAG  
 CTACCCGGCTTCTGCAGCTCAGCCGGGAGGACCAGATTGCCCTGCTGAAGACCTCTGCGATCGAGGTGA  
 TGCTTCTGGAGACATCTCGGAGGTACAACCTGGGAGTGAGAGTATCACCTTCTCAAGGATTTCAAGTTA  
 TAACCGGGAAGACTTTGCCAAAGCAGGGCTGCAAGTGAATTATCAACCCATCTTCGAGTTCTCCAGG  
 GCCATGAATGAGTGAACCTCAATGATGCCGAGTTTGCCTTGCTCATTGCTATCAGCATCTTCTCTGCAG  
 ACCGGCCCAACGTGCAGGACCAGCTCCAGGTAGAGAGGCTGCAGCACACATATGTGGAAGCCCTGCATGC  
 CTACGTCTCCATCCACCATCCCATGACCGACTGATGTTCCACCGGATGCTAATGAAACTGGTGAGCCTC  
 CGGACCCTGAGCAGCGTCCACTCAGAGCAAGTGTTCGACTGCGTCTGCAGGACAAAAAGCTCCCACCG  
 TGCTCTGAGATCTGGGATGTGCACGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234144 representing NM\_001251934  
 Red=Cloning site Green=Tags(s)

MQQTSWNPLGGTCKQPPGRTHSAVELWKPQAQDASSQAQGGSSCILREEARMPHSAGGTAGVGLAAEPT  
 ALLTRAEPPEPTEIRPQKRKKGPAKMLGNELCSVCGDKASGFHYNVLSCEGCKGFFRRSVIKGAHYIC  
 HSGGHCPMDTYMRRKQCERLRKCRQAGMREECVLSSEEQIRLKKLKRQEEEAHATSLLPRASSPPQILP  
 QLSPEQLGMIEKLVAAQQCNRRSFSDRLRVTPWPMAPDPHSREARQRF AHFTELAIVSVQEIVDFAKQ  
 LPGFLQLSREDQIALLKTS AIEVMLETSRRYNPGSESI TFLKDFSYNREDFAKAGLQVEFINPIFEFSR  
 AMNELQLNDAEFALLIAISIFSADRPNVQDLQVERLQHTYVEALHAYVSIHHPHDRLMFPRLMKLVSL  
 RTLSSVHSEQVFALRLQDKLPLLSIWDVHE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001251934

**ORF Size:** 1359 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\\_001251934.1](#), [NP\\_001238863.1](#)
**RefSeq Size:** 1887 bp

**RefSeq ORF:** 1362 bp

**Locus ID:** 10062

**Cytogenetics:** 11p11.2

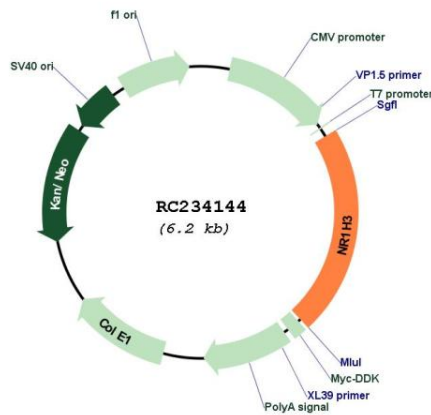
**Protein Families:** Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

**Protein Pathways:** PPAR signaling pathway

**MW:** 51.6 kDa

**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]

**Product images:**



Circular map for RC234144