

Product datasheet for **RC234145**

LXR alpha (NR1H3) (NM_001251935) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LXR alpha (NR1H3) (NM_001251935) 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:

>RC234145 representing NM_001251935
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGCAAACAAGCTGGAACCCGCTGGGTGGCACCTGCAAGCAGCCGCCCGGACGCACCCACTCTGCGG
 TGGAGCTGTGGAAGCCAGGCGCACAGGATGCAAGCAGCCAGGCCAGGGAGGCAGCAGCTGCATCCCTCAG
 AGAGGAAGCCAGGATGCCCACTCTGCTGGGGTACTGCAGGGGTGGGGCTGGAGGCTGCAGAGCCACA
 GCCCTGCTCACCAGGGCAGAGCCCCCTTCAAGACCCACAGAGATCCGTCCACAAAAGCGAAAAAGGGGC
 CAGCCCCAAAATGCTGGGAACGAGCTATGCAGCGTGTGTGGGACAAGGCCTCGGGCTTCCACTACAA
 TGTTCTGAGCTGCGAGGGCTGCAAGGGATTCTCCGCCGACGCTCATCAAGGGAGCGCACTACATCTGC
 CACAGTGGCGGCCACTGCCCATGGACACCTACATGCGTCGCAAGTGCCAGGAGTGTGGCTTCGCAAT
 GCCGTGAGGCTGGCATGCGGGAGGAGTGTCTCTGTGAGAAGAAGATCCGCCTGAAGAACTGAAGCG
 GCAAGAGGAGGAACAGGCTCATGCCACATCCTTGCCCCCAGGGCTTCTCACCCCCAAATCCTGCC
 CAGCTCAGCCCGAACAAGTGGGATGATCGAGAAGCTCGTCGCTGCCAGCAACAGTGTAAACCGCGCT
 CCTTTTCTGACCGGCTTCGAGTACGCCTTGGCCCATGGCACCAGATCCCATAGCCGGGAGGCCGCTCA
 GCAGCGCTTTGCCCACTTCACTGAGCTGGCCATCGTCTCTGTGCAGGAGATAGTTGACTTTGCTAAACAG
 CTACCCGGCTTCTGCAGCTCAGCCGGGAGGACCAGATTGCCCTGCTGAAGACCTCTGCGATCGAGGTGA
 TGCTTCTGGAGACATCTCGGAGGTACAACCCTGGGAGTGAGAGTATCACCTTCTCAAGGATTTCAAGTA
 TAACCGGGAAGACTTTGCCAAAGCAGGGCTGCAAGTGAATTATCAACCCATCTTCGAGTTCTCCAGG
 GCCATGAATGAGTGAACCTCAATGATGCCGAGTTTGCCTTGCTCATTGCTATCAGCATCTTCTCTGCAG
 ACCGGCCCAACGTGCAGGACCAGCTCCAGGTAGAGAGGCTGCAGCACACATATGTGGAAGCCCTGCATGC
 CTACGTCTCCATCCACCATCCCATGACCGACTGATGTTCCACCGGATGCTAATGAAACTGGTGAGCCTC
 CGGACCCTGAGCAGCGTCCACTCAGAGCAAGTGTTCGACTGCGTCTGCAGGACAAAAAGCTCCCACCG
 TGCTCTGAGATCTGGGATGTGCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234145 representing NM_001251935
 Red=Cloning site Green=Tags(s)

MQQTSWNPLGGTCKQPPGRTHSAVELWKPQAQDASSQAQGGSSCILREEARMPHSAGGTAGVGLAAEPT
 ALLTRAEPPEPTEIRPQKRKKGPAKMLGNELCSVCGDKASGFHYNVLSCEGCKGFFRRSVIKGAHYIC
 HSGGHCPMDTYMRRKQCRLRKCRCQAGMREECVLSSEEQIRLKKLKRQEEEAHATSLLPRASSPPQILP
 QLSPEQLGMIEKLVAAQQCNRRSFSDRLRVTPWPMAPDPHSREARQRF AHFTELAIVSVQEIVDFAKQ
 LPGFLQLSREDQIALKTS AIEVMLETSRRYNPGSESI TFLKDFSYNREDFAKAGLQVEFINPIFEFSR
 AMNELQLNDAEFALLIAISIFSADRPNVQDLQVERLQHTYVEALHAYVSIHHPHDRLMFPRLMKLVSL
 RTLSSVHSEQVFALRLQDKLPLLSIWDVHE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001251935

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_001251935.1](#), [NP_001238864.1](#)

RefSeq Size: 1928 bp

RefSeq ORF: 1362 bp

Locus ID: 10062

Cytogenetics: 11p11.2

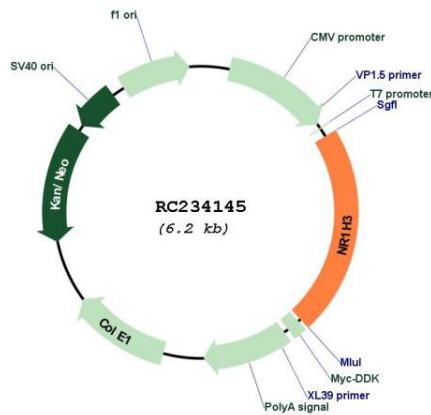
Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

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 RC234145