

## Product datasheet for **RG223767**

### LXR alpha (NR1H3) (NM\_005693) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LXR alpha (NR1H3) (NM_005693) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LXR alpha
Synonyms:	LXR-a; LXRA; RLD-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223767 representing NM\_005693  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCCTTGTGGCTGGGGCCCCCTGTGCCTGACATTCTCTGACTCTGCGGTGGAGCTGTGGAAGCCAG  
 GCGCACAGGATGCAAGCAGCCAGGCCAGGGAGGCAGCAGCTGCATCCTCAGAGAGGAAGCCAGGATGCC  
 CCACTCTGCTGGGGTACTGCAGGGTGGGGCTGGAGGCTGCAGAGCCCACAGCCCTGCTCACCAGGGCA  
 GAGCCCCCTCAGAACCACAGAGATCCGTCCACAAAAGCGAAAAAGGGCCAGCCCCAAAATGCTGG  
 GGAACGAGCTATGCAGCGTGTGTGGGACAAGGCCTCGGGCTTCCACTACAATGTTCTGAGCTGCGAGGG  
 CTGCAAGGGATTCTCCGCCGAGCGTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGGCCACTGC  
 CCCATGGACACCTACATGCGTCGCAAGTCCAGGAGTGTGGCTTCGCAATGCCGTGAGCTGGCATGC  
 GGGAGGAGTGTCTGTGTCAGAAGAAGAGATCCGCCTGAAGAACTGAAGCGCAAGAGGAGGAACAGGC  
 TCATGCCACATCCTTGGCCCCAGGGCTTCTCACCCCCAAAATCCTGCCCCAGCTCAGCCCGGAACAA  
 CTGGGCATGATCGAGAAGCTCGTCGCTGCCAGCAACAGTGTAAACGGCGCTCCTTTTCTGACCGGCTTC  
 GAGTCACGCCCTTGGCCATGGCACCAGATCCCCATAGCCGGGAGGCCCGTCAGCAGCGCTTTGCCCACTT  
 CACTGAGCTGGCCATCGTCTCTGTGAGGAGATAGTTGACTTTGCTAAACAGCTACCCGGCTTCTCGAG  
 CTCAGCCGGGAGGACCAGATTGCCCTGTGAAGACCTCTGCGATCGAGGTGATGCTTCTGGAGACATCTC  
 GGAGGTACAACCTGGGAGTGAGAGTATCACCTTCTCAAGGATTTCAAGTATAACCGGGAAGACTTTGC  
 CAAAGCAGGGTGCAAGTGAATTCATCAACCCATCTTCGAGTCTCCAGGGCCATGAATGAGCTGCAA  
 CTCAATGATGCCGAGTTGCCTTGCTCATTGCTATCAGCATCTTCTGTCAGACCCGCCAACGTGCAGG  
 ACCAGCTCCAGGTAGAGAGGCTGCAGCACACATATGTGGAAGCCCTGCATGCCTACGTCTCCATCCACCA  
 TCCCCATGACCGACTGATGTTCCACGGATGCTAATGAACTGGTGAGCCTCCGGACCTGAGCAGCGTC  
 CACTCAGAGCAAGTGTGGTCTGACTGCGTCTGCAGGACAAAAGCTCCCACCGCTGCTCTGAGATCTGGG  
 ATGTGCACGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG223767 representing NM\_005693  
 Red=Cloning site Green=Tags(s)

MSLWLGA PVPDIPD SVELWKPGAQDASSQAQGGSSCILREEARMPHSAGGTAGVGLEAAEPTALLTRA  
 EPPSEPT EIRPQKRKKGPAPKMLGNELCSVCGDKASGFHYNVLSCEGCKGFFRRSVIKGAHYICHSGGHC  
 PMDTYMRKQCERLRKCRQAGMREECVLSSEQIRLKKLRQEEEAHATSLPPRASSPPQILPQLSPEQ  
 LGMIEKLVAAQQQCNRRSFSDRLRVTPWPMAPDPHSREARQRF AHFT ELAIVSVQEIVDFAKQLPGFLQ  
 LSREDQIALLKTS AIEVM LLETSSRYNPGSEITFLKDFSYNREDFAKAGLQVEFINPIFEFSRAMNELQ  
 LNDAEFALLIAISIF SADRPNVQDQLQVERLQHTYVEALHAYVSIHHPHDRLMFPRLMKLVSLRTLSSV  
 HSEQV FALRLQDKKLP LLLSEIWDVHE

**TRTRPLE** - GFP Tag - V

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1784\\_h11.zip](https://cdn.origene.com/chromatograms/ja1784_h11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_005693

**ORF Size:** 1341 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\\_005693.4](#)

**RefSeq Size:** 1528 bp

**RefSeq ORF:** 1344 bp

**Locus ID:** 10062

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

**Cytogenetics:** 11p11.2

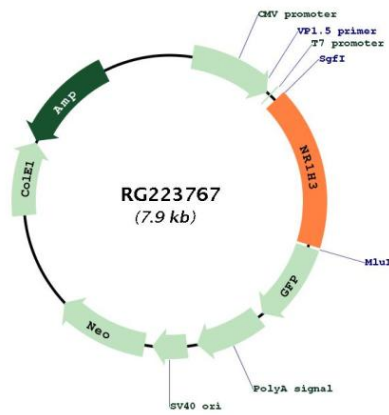
**Domains:** HOLI, zf-C4

**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]

**Product images:**



Circular map for RG223767