

Product datasheet for **RG208381**

LXR beta (NR1H2) (NM_007121) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LXR beta (NR1H2) (NM_007121) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LXR beta
Synonyms:	LXR-b; LXRB; NER; NER-I; RIP15; UNR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG208381 representing NM_007121
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTCTCCTACCACGAGTTCCTGGATACCCCTGCCTGGAATGGCCCCCTCAGCTGGCGCCC
 CTCTCTTACCCTACTGTAAGGAGGAGGGTCCGGAGCCGTGGCCCGGGGTCCGGACCCTGATGTCCC
 AGGCACTGATGAGGCCAGCTCAGCTGCAGCACAGACTGGGTATCCCAGATCCCAGAGGAACCAGAG
 CGCAAGCGAAAGAAGGGCCAGCCCGAAGATGCTGGGCCACGAGCTTTCGCGTGTCTGTGGGGACAAGG
 CCTCCGGCTTCCACTACAACGTGCTCAGCTGCGAAGGCTGCAAGGGCTTCTCCGGCGCAGTGTGGTCCG
 TGGTGGGGCCAGGCGCTATGCCTGCCGGGTGGCGAACCTGCCAGATGGACGCTTTCATGCGGCGCAAG
 TGCCAGCAGTCCCGCTGCGCAAGTGAAGGAGGCAGGGATGAGGGAGCAGTGCCTCTTCTGAAGAAC
 AGATCCGGAAGAAGAAGATTCGAAACAACAGCAGCAGGAGTACAGTCACAGTCGCAGTCACTGTGGG
 GCCGACGGCAGCAGCAGCTCAGCTTGGCCCTGGGGCTTCCCCTGGTGGATCTGAGGCAGGCAGCCAG
 GGCTCCGGGGAAGGCGAGGGTGTCCAGTAAACAGCGGCTCAAGAACTAATGATCCAGCAGTTGGTGGCGG
 CCCAAGTGCAGTGAACAACGCTCCTTCTCCGACCAGCCAAAGTACGCCCTGGCCCCCTGGGCGCAGA
 CCCCCAGTCCCGAGATGCCCGCCAGCAACGCTTTCGCCACTTACGGAGCTGGCCATCATCTCAGTCCAG
 GAGATCGTGGACTTCGCTAAGCAAGTGCCTGGTTTCTGCAGCTGGGCCGGGAGGACCAGATCGCCCTCC
 TGAAGGCATCCACTATCGAGATCATGCTGCTAGAGACAGCCAGGCGCTACAACCACGAGACAGAGTGTAT
 CACCTTCTGAAGGACTTCACTACAGCAAGGACGACTTCCACCGTGCAGGCTGCAGGTGGAGTTATC
 AACCCATCTTCGAGTTCTCGCGGGCCATGCGGGGCTGGGCTGGACGACGCTGAGTACGCCCTGCTCA
 TCGCCATCAACATCTTCTCGCGGACCGGCCAACGTCAGGAGCCGGCCGCTGGAGGGCTTGCAGCA
 GCCCTACGTGGAGGCGCTGCTGTCTACACGCGCATCAAGAGGCCGACAGGACCAGCTGCGCTTCCGCGC
 ATGCTCATGAAGCTGGTGAAGCTGCGCACGCTGAGCTCTGTGACTCGGAGCAGGTCTTCGCTTCCGCGC
 TCCAGGACAAGAAGCTGCCGCTCTGCTGCGGAGATCTGGGACGTCCACGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208381 representing NM_007121
 Red=Cloning site Green=Tags(s)

MSSPTTSSLDTPLPGNGPPQPGAPSSSPTVKEGPEPWGGPDPDVPGTDEASSACSTDWVIPDPEEPE
 RKRKKGPAKMLGHELCRVCGDKASGFHYNLVSCGCKGFFRRSVVRGGARRYACRGGTCQMDAFMRRK
 CQQCRLRKCKEAGMREQVLSSEEQIRKKKIRKQQQESQSQSPVGPQGSSSSASGPGASPGGSEAGSQ
 GSGEGEVQLTAAQELMIQQLVAAQLQCNKRSFSDQPKVTPWPLGADPQSRDARQQRFAHFTELAIISVQ
 EIVDFAKQVPGFLQLGREDQIALLKASTIEIMLLETARRYNHETECITFLKDFITYSKDDFHRAGLQVEFI
 NPIFEFSRAMRRLGLDDAEYALLIAINIFSADRPNVQEPGRVEALQQPYVEALLSYTRIKRPQDQLRFP
 MLMKLVSLRRLSSVHSEQVFALRLQDKLPLLLSEIWDVHE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_007121

ORF Size: 1383 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

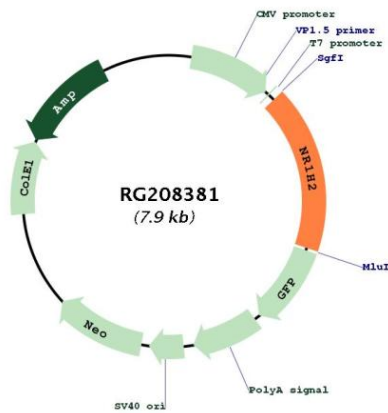
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_007121.5](#)

RefSeq Size:	2037 bp
RefSeq ORF:	1383 bp
Locus ID:	7376
UniProt ID:	P55055
Cytogenetics:	19q13.33
Domains:	HOLI, zf-C4
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Gene Summary:	The liver X receptors, LXRA (NR1H3; MIM 602423) and LXRβ, form a subfamily of the nuclear receptor superfamily and are key regulators of macrophage function, controlling transcriptional programs involved in lipid homeostasis and inflammation. The inducible LXRA is highly expressed in liver, adrenal gland, intestine, adipose tissue, macrophages, lung, and kidney, whereas LXRβ is ubiquitously expressed. Ligand-activated LXRs form obligate heterodimers with retinoid X receptors (RXRs; see MIM 180245) and regulate expression of target genes containing LXR response elements (summary by Korf et al., 2009 [PubMed 19436111]).[supplied by OMIM, Jan 2010]

Product images:



Circular map for RG208381