

Product datasheet for **SC321823**

LXR beta (NR1H2) (NM_007121) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LXR beta (NR1H2) (NM_007121) Human Untagged Clone
Tag:	Tag Free
Symbol:	LXR beta
Synonyms:	LXR-b; LXRB; NER; NER-I; RIP15; UNR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_007121.3
 CGGGGTTGCCGGAAGAAGTGGCGAAGTACTTTTGAGGGTATTTGAGTAGCGCGGTGTG
 TCAGGGGCTAAAGAGGAGGACGAAGAAAAGCAGAGCAAGGGAACCCAGGGCAACAGGAGT
 AGTTCACTCCGCGAGAGGCCGTCCACGAGACCCCGCGCGCAGCCATGAGCCCCGCCCC
 CGCTGTTGCTTGGAGAGGGGCGGACCTGGAGAGAGGCTGCTCCGTGACCCACCATGTC
 CTCTCTACCACGAGTTCCTGGATACCCCTGCCTGAAATGGCCCCCTCAGCTGG
 GCCTTCTTCCACCCACTGTAAGGAGGAGGGTCCGGAGCCGTGGCCCGGGGTCC
 GGACCCTGATGTCCAGGCACTGATGAGGCCAGCTCAGCCTGCAGCACAGACTGGTTCAT
 CCCAGATCCCGAAGAGGAACAGAGCGCAAGCGAAAGAAGGGCCAGCCCGAAGATGCT
 GGGCCACGAGCTTGGCGTGTCTGTGGGACAAGGCTCCGGCTTCCACTACAACGTGCT
 CAGCTGCAAGGCTGCAAGGCTTCTCCGGCGCAGTGTGGTCCGTGGTGGGCCAGGG
 CTATGCCTGCCGGGTGGCGAACCTGCCAGATGGACGCTTTCATGCGGCGCAAGTGCCA
 GCAGTGCCGGCTGCGCAAGTGAAGGAGGAGGGATGAGGGAGCAGTGCCTCTTTCTGA
 AGAACAGATCCGGAAGAAGAAGATTCGAAACAACAGCAGCAGGAGTACAGTACAGTC
 GCAGTCACTGTGGGGCCGAGGGCAGCAGCTCAGCCTCTGGGCCTGGGGTTCCTCC
 TGGTGGATCTGAGGCAGGCAGCCAGGGTCCGGGGAAGGCGAGGGTGTCCAGTAAACAGC
 GGCTCAAGAACTAATGATCCAGCAGTGGTGGCGGCCAACTGCAGTGCACAAACGCTC
 TTCTCCGACCAGCCAAAGTACGCCCCTGGCCCTGGGCGCAGACCCCACTCCCGAGA
 TGCCCGCCAGCAACGCTTGGCCACTTACGGAGCTGGCCATCATCTCAGTCCAGGAGAT
 CGTGGACTTCGTAAGCAAGTGCCTGGTTTCTGCAGCTGGGCCGGGAGGACCAGATCGC
 CCTCTGAAGGCATCCACTATCGAGATCATGCTGCTAGAGACAGCCAGGCGCTACAACCA
 CGAGACAGAGTGTATCACCTTGAAGGACTTACCTACAGCAAGGACGACTTCCACCG
 TGACGGCTGCAGTGGAGTTCATCAACCCATCTTCGAGTTCTCGGGCCATGCGGGC
 GCTGGCCCTGGACGACGCTGAGTACGCCCTGCTCATCGCCATCAACATCTTCTCGGCCGA
 CCGGCCAACGTGCAAGGAGCCGGCCGCGTGGAGGCGTTGCAGCAGCCCTACGTGGAGGC
 GCTGCTGTCTACACGCGCATCAAGAGGCCGAGGACCAGCTGCGCTTCCCGCGCATGCT
 CATGAAGCTGGTGAAGCTGCGCACGCTGAGCTCTGTGCACTCGGAGCAGGTCTTCGCTT
 GCGGCTCCAGGACAAGAAGCTGCCGCTCTGCTGTCGAGATCTGGGACGTCCACGAGTG
 AGGGGCTGGCCACCCAGCCACAGCCTTGCTGACCACCCTCCAGCAGATAGACGCCGG
 CACCCCTTCTCTTCTAGGGTGAAGGGGCCCTGGGCCGAGCCTGTAGACCTATCGGCT
 CTCATCCCTTGGGATAAGCCCCAGTCCAGTCCAGGAGGCTCCCTCCCTGCCAGCGAGT
 TTCCAGAAGGGGTGAAAGGGTTGACAGTCCCGACCACTGACCCTTCCCGGCTGCCCTCC
 CTCCCCAGCTTACACCTCAAGCCAGCACGCGAGTGCACCTTGAACAGAGGGAGGGGAGGA
 CCCATGGCTCTCCCCCTAGCCCGGAGACCAGGGCCTTCTCTTCTCTGCTTTTATT
 TAATAAAAATAAAAACAGAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_007121
Insert Size: 2100 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_007121.3](#), [NP_009052.3](#)

RefSeq Size: 2037 bp

RefSeq ORF: 1386 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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). CCDS Note: The coding region was updated to make it identical to the current human reference genome sequence.