

## Product datasheet for SC325031

### LXR alpha (NR1H3) (NM\_001130101) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LXR alpha (NR1H3) (NM_001130101) Human Untagged Clone
Tag:	Tag Free
Symbol:	LXR alpha
Synonyms:	LXR-a; LXRA; RLD-1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	<p>&gt;NCBI ORF sequence for NM_001130101, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGTCCTTGTGGCTGGGGGCCCCCTGTGCCTGACATTCCTCCTGACTCTGCGGTGGAGCTG TGG AAGCCAGGCGCACAGGATGCAAGCAGCCAGGCCAGGGAGGCAGAGCTGCATCCTC AGAGAGGAAGCCAGGATGCCCCACTCTGCTGGGGTACTGCAGGGGTGGGGCTGGAGGCT GCAGAGCCACAGCCCTGCTCACCAGGGCAGAGCCCCCTTCAGAACCCACAGAGATCCGT CCACAAAAGCGGAAAAAGGGGCCAGCCCCAAAATGCTGGGGAACGAGCTATGCAGCGTG TGTGGGGACAAGGCTCGGGCTTCCACTACAATGTTCTGAGCTGCGAGGGCTGCAAGGGA TTCTTCCGCCGACGCTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGGCCACTGC CCCATGGACACCTACATGCGTCGCAAGTGCCAGGAGTGTGCGCTTCGCAATGCCGTCAG GCTGGCATGCGGGAGGAGTGTGTCCTGTGTCAGAAAGACAGATCCGCTGAAGAACTGAAG CGGCAAGAGGAGGAACAGGCTCATGCCACATCCTTGCCCCCAGGGCTTCCTCACCCCCC CAAATCCTGCCCCAGCTCAGCCCGGAACAACCTGGGCATGATCGAGAAGCTCGTCGCTGCC CAGCAACAGTGTAACCGGCGCTCCTTTTCTGACCGGCTTCGAGTCACGGTGATGCTTCTG GAGACATCTCGGAGGTACAACCTGGGAGTGAGAGTATCACCTTCCTCAAGGATTTCACT TATAACCGGGAAGACTTTGCCAAGCAGGGCTGCAAGTGAATTCATCAACCCCATCTTC GAGTTCTCCAGGGCCATGAATGAGCTGCAACTCAATGATGCCGAGTTTGCCTTGCTCATT GCTATCAGCATCTTCTCTGCAGACCGGCCAACGTGCAGGACCAGCTCCAGGTAGAGAGG CTGCAGCACACATATGTGGAAGCCCTGCATGCCTACGTCTCCATCCACCATCCCCATGAC CGACTGATGTTCCACGGATGCTAATGAACTGGTGAGCCTCCGGACCCTGAGCAGCGTC CACTCAGAGCAAGTGTGTTGCACTGCGTCTGCAGGACAAAAGCTCCCACCCTGCTCTCT GAGATCTGGGATGTGCACGAA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001130101
Insert Size:	1759 bp


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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001130101.1, NP_001123573.1</u>
<b>RefSeq Size:</b>	1759 bp
<b>RefSeq ORF:</b>	1164 bp
<b>Locus ID:</b>	10062
<b>UniProt ID:</b>	<u>Q13133</u>
<b>Cytogenetics:</b>	11p11.2
<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>Protein Pathways:</b>	PPAR signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an internal in-frame coding exon compared to variant 1. This results in a shorter isoform (2) missing an internal protein segment compared to isoform 1.</p>