

Product datasheet for **RG225591**

LXR alpha (NR1H3) (NM_001130101) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LXR alpha (NR1H3) (NM_001130101) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NR1H3
Synonyms:	LXR-a; LXRA; RLD-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225591 representing NM_001130101 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTTGTGGCTGGGGCCCCCTGTGCCTGACATTCCTCCTGACTCTGCGGTGGAGCTGTGGAAGCCAG
GCGCACAGGATGCAAGCAGCCAGGCCAGGGAGGCAGCAGCTGCATCCTCAGAGAGGAAGCCAGGATGCC
CCACTCTGCTGGGGTACTGCAGGGTGGGGCTGGAGGCTGCAGAGCCCACAGCCCTGCTCACCAGGGCA
GAGCCCCCTTCAGAACCACAGAGATCCGTCCACAAAAGCGGAAAAGGGGCCAGCCCCAAAATGCTGG
GGAACGAGCTATGCAGCGTGTGTGGGACAAGGCCTCGGGCTTCCACTACAATGTTCTGAGCTGCGAGGG
CTGCAAGGATTCCTCCGCCGACAGCTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGGCCACTGC
CCCATGGACACCTACATGCGTCGCAAGTGCCAGGAGTGTGCGCTTCGCAAATGCCGTGAGCTGGCATGC
GGGAGGAGTGTGTCTGTGAGAGAAGCAGATCCGCCTGAAGAACTGAAGCGGCAAGAGGAGGAACAGGC
TCATGCCACATCCTTGCCCCCAGGGCTTCTCACCCCCAAAATCCTGCCCCAGCTCAGCCCGGAACAA
CTGGGCATGATCGAGAAGCTCGTCGTCGCCAGCAACAGTGAACCGGCGCTCCTTTCTGACCGGCTTC
GAGTCACGGTGTGCTTCTGGAGACATCTCGGAGGTACAACCTGGGAGTGAGAGTATCACCTTCTCTCAA
GGATTTTCAGTTATAACCGGGAAGACTTTGCCAAGCAGGGCTGCAAGTGAATTCATCAACCCATCTTC
GAGTTCTCCAGGGCCATGAATGAGCTGCAACTCAATGATGCCAGTTTGCCTTGCTCATTGCTATCAGCA
TCTTCTGCAGACCGGCCAACGTGCAGGACCAGCTCCAGGTAGAGAGGCTGCAGCACACATATGTGGA
AGCCCTGCATGCCTACGTCTCCATCCACCATCCCATGACCGACTGATGTTCCACGGATGCTAATGAAA
CTGGTGAGCCTCCGGACCCTGAGCAGCGTCCACTCAGAGCAAGTGTTCGACTGCGTCTGCAGGACAAAA
AGCTCCACCGCTGCTCTGAGATCTGGGATGTGCACGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225591 representing NM_001130101
 Red=Cloning site Green=Tags(s)

MSLWLGA PVPDIP PDSAVELWKPQA DASSQA QGGSSCIL REEARMPHSAGGTAGVGLEAAEPTALLTRA
 EPPSEPT EIRPQKRKKGPAPKMLGNELCSVCGDKASGFHYNVLSCEGCKGFFRRSVIKGAHYICHSGGHC
 PMDTYMRKQCQCRLRKCRCQAGMREECVLS EEQIRLKKLRQEEEQAHATSLPPRASSPPQILPQLSPEQ
 LGMIEKLVAAQQQCNRRSFSDRLRVTVM LLETSTRRYNPGSEITFLKDFSYNREDFAKAGLQVEFINPIF
 EFSRAMNELQLNDAEFALLIAISIF SADRPNVQDQLQVERLQHTYVEALHAYVSIHHPHDRLMFPRLMK
 LVSLRTLSSVHSEQVFALRLQDKKLP LLLSEIWDVHE

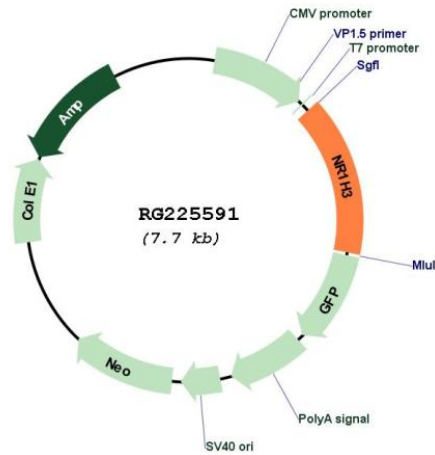
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001130101

ORF Size:	1161 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:	<ol style="list-style-type: none">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_001130101.3
RefSeq Size:	1759 bp
RefSeq ORF:	1164 bp
Locus ID:	10062
UniProt ID:	Q13133
Cytogenetics:	11p11.2
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]