

Product datasheet for **RG233882**

LXR beta (NR1H2) (NM_001256647) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LXR beta (NR1H2) (NM_001256647) 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)
ORF Nucleotide Sequence:	>RG233882 representing NM_001256647 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTCTCCTACCACGAGTTCCTGGATACCCCTGCCTGGAAATGGCCCCCTCAGCCTGGCGCCC
CTTCTTCTCACCCACTGTAAAGGAGGAGGGTCCGGAGCCGTGGCCGGGGTCCGGACCCTGATGTCCC
AGGCACTGATGAGGCCAGCTCAGCCTGCAGCACAGACTGGGGCTCCTTTCTGAAGAACAGATCCGGAAG
AAGAAGATTCGAAACAACAGCAGCAGGAGTACAGTACAGTTCGAGTACCTGTGGGGCCGAGGGCA
GCAGCAGCTCAGCCTCTGGCCTGGGGTTCCTGGTGGATCTGAGGCAGGCAGCCAGGGCTCCGGGGA
AGGCGAGGGTGTCCAGCTAACAGCGGCTCAAGAACTAATGATCCAGCAGTTGGTGGCGGCCAACTGCAG
TGCAACAACGCTCCTTCTCCGACCAGCCAAAGTACGCGCTGGCCCTGGGCGCAGACCCCACTGCC
GAGATGCCCGCCAGCAACGCTTTGCCACTTCACGGAGCTGGCCATCATCTCAGTCCAGGAGATCGTGGA
CTTCGCTAAGCAAGTGCCTGGTTTCTGCAGCTGGGCCGGGAGGACCAGATCGCCCTCCTGAAGGCATCC
ACTATCGAGATCATGCTGCTAGAGACAGCCAGGCGCTACAACCAGAGACAGAGTGTATCACCTTCTTGA
AGGACTTACCTACAGCAAGGACGACTTCCACCGTGCAGGCTGCAGGTGGAGTTCATCAACCCATCTT
CGAGTTCTCGGGCCATGCGGGCTGGGCTGGACGACGCTGAGTACGCCCTGCTCATCGCCATCAAC
ATCTTCTCGGGCCAGCCGCCCCAAGTGCAGGAGCCGGCCGCGTGGAGGCGTTGCAGCACCCCTACGTGG
AGGCGCTGCTGTCTACACGCGCATCAAGAGCCGAGGACCAGCTGCGCTTCCCGCATGCTCATGAA
GCTGGTGAAGCTGCGCACGCTGAGCTCTGTGCACTCGGAGCAGGTCTTCGCCCTTGGCGCTCCAGGACAAG
AAGCTGCCGCTCTGCTGCTCGGAGATCTGGGACGTCCACGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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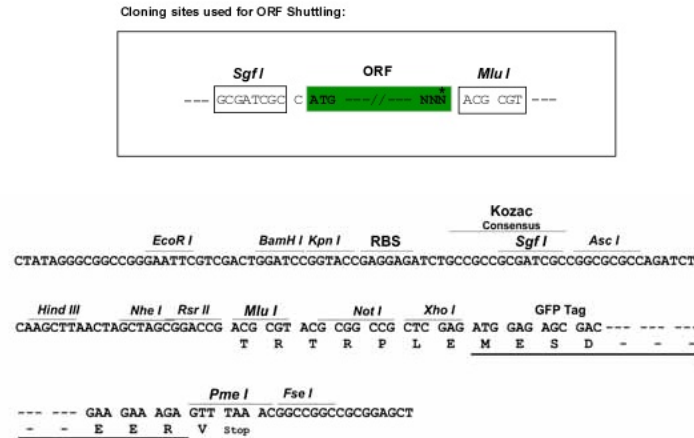
Protein Sequence: >RG233882 representing NM_001256647
 Red=Cloning site Green=Tags(s)

MSSPTTSSLDTPLPGNGPPQPGAPSSSPTVKEEGPEPWPGGPDVPGTDEASSACSTDWGLVSEEQIRK
 KKIRKQQQESQSQSPVGPQGSSSASGPGASPGGSEAGSQSGEGEVQLTAAQELMIQQLVAAQLQ
 CNKRSFSDQPKVTPWPLGADPQSRDARQQRFAHFTELAII SVQEIVDFAKQVPGFLQLGREDQIALLKAS
 TIEIMLLETARRYNHETECITFLKDFITYSKDDFHRAGLQVEFINPIFEFSRAMRRLGLDDAEYALLIAIN
 IFSADRPNVQEPGRVEALQQPYVEALLSYTRIKRPQDQLRFPRLMKLVSLRTLSSVHSEQVFA LR LQDK
 KLPPLLSEIWDVHE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256647

ORF Size: 1092 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_001256647.1](#), [NP_001243576.1](#)

RefSeq Size: 1802 bp

RefSeq ORF: 1092 bp

Locus ID: 7376

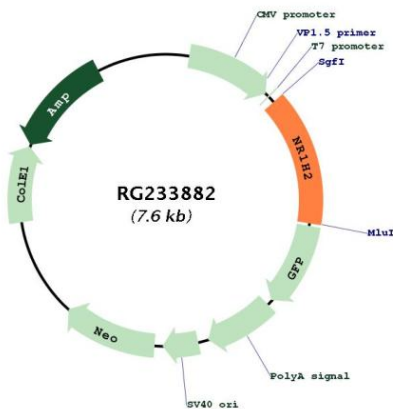
UniProt ID: [P55055](#)

Cytogenetics: 19q13.33

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 RG233882