

Product datasheet for RC223816L3

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Leptin Receptor (LEPR) (NM_002303) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Leptin Receptor (LEPR) (NM_002303) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Leptin Receptor

Synonyms: CD295; LEP-R; LEPRD; OB-R; OBR

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

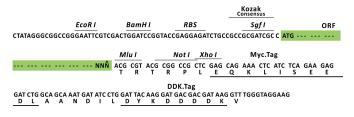
The ORF insert of this clone is exactly the same as(RC223816).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_002303

ORF Size: 3495 bp



Leptin Receptor (LEPR) (NM_002303) Human Tagged Lenti ORF Clone - RC223816L3

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: <u>NM 002303.2</u>

 RefSeq Size:
 4102 bp

 RefSeq ORF:
 3498 bp

 Locus ID:
 3953

 UniProt ID:
 P48357

Cytogenetics: 1p31.3

Domains: FN3

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Adipocytokine signaling pathway, Cytokine-cytokine receptor interaction, Jak-STAT signaling

pathway, Neuroactive ligand-receptor interaction

MW: 132.55 kDa

Gene Summary: The protein encoded by this gene belongs to the gp130 family of cytokine receptors that are

known to stimulate gene transcription via activation of cytosolic STAT proteins. This protein is a receptor for leptin (an adipocyte-specific hormone that regulates body weight), and is involved in the regulation of fat metabolism, as well as in a novel hematopoietic pathway that is required for normal lymphopoiesis. Mutations in this gene have been associated with obesity and pituitary dysfunction. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. It is noteworthy that this gene and LEPROT gene

(GenelD:54741) share the same promoter and the first 2 exons, however, encode distinct

proteins (PMID:9207021).[provided by RefSeq, Nov 2010]