

Product datasheet for **RC231439**

Leptin Receptor (LEPR) (NM_001198688) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Leptin Receptor (LEPR) (NM_001198688) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Leptin Receptor
Synonyms:	CD295; LEP-R; LEPRD; OB-R; OBR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC231439 representing NM_001198688
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTTGTCAAAAATTCTGTGGTTTTGTACATTGGGAATTTATTTATGTGATAACTGCGTTTAACT
 TGCATATCCAATTACTCCTGGAGATTTAAGTTGTCTTGCATGCCACCAAATTC AACCTATGACTACTT
 CCTTTTGCCTGCTGGACTCTCAAAGAATACTTCAAATTCGAATGGACATTATGAGACAGCTGTTGAACCT
 AAGTTTAAATCAAGTGGTACTCACTTTTCTAACTATCCAAAACAACCTTCCACTGTTGCTTTCCGAGTG
 AGCAAGATAGAACTGCTCCTTATGTGCAGACAACATTGAAGGAAAGACATTTGTTTCAACAGTAAATTC
 TTTAGTTTTTCAACAAATAGATGCAAACTGGAACATACAGTGTGGCTAAAAGGAGACTTAAAATTATTC
 ATCTGTTATGTGGAGTCATTATTAAGAATCTATT CAGGAATTAACTATAAGGTCCATCTTTTATATG
 TTCTGCCTGAAGTGTAGAAAGTTCACCTCTGGTCCCAAAAAGGCAGTTTT CAGATGGTTCAGTCAA
 TTGCAGTGTTCATGAATGTTGTGAATGTCTTGTGCCTGTGCCAACAGCCAACTCAACGACTCTCCTT
 ATGTGTTTGAAAATCACATCTGGTGGAGTAATTTCCAGTCACCTCTAATGTCAGTTCAGCCATAAATA
 TGGTGAAGCCTGATCCACCATTAGGTTTGCATATGGAAATCACAGATGATGGTAATTTAAAGATTTCTTG
 GTCCAGCCACCATTGGTACCATTTCCACTTCAATATCAAGTGAATATTCAGAGAATTTCTACAACAGTT
 ATCAGAGAAGCTGACAAGATTGTCTCAGCTACATCCCTGCTAGTAGACAGTATACTTCTGGGTCTTCGT
 ATGAGGTT CAGGTGAGGGGCAAGAGACTGGATGGCCAGGAATCTGGAGTGACTGGAGTACTCCTCGTGT
 CTTTACCACACAAGATGCATATACTTTCCACCTAAAATCTGACAAGTGTGGGTCTAATGTTTCTTTT
 CACTGCATCTATAAGAAGGAAAACAAGATTGTTCCCTCAAAGAGATTTGGTGGATGAATTTAGCTG
 AGAAAATTCCTCAAAGCCAGTATGATGTTGTGAGTGATCATGTTAGCAAAGTTACTTTTTCAATCTGAA
 TGA AACCAAACCTCGAGGAAAGTTTACCTATGATGCAGTGTACTGCTGCAATGAACATGAATGCCATCAT
 CGCTATGCTGAATTATATGTGATTGATGTCAATATCAATATCTCATGTGAAACTGATGGGTACTTAACTA
 AAATGACTTGCAGATGGTCAACCAGTACAATCCAGTCACTTGGGAAAGCACTTTGCAATTGAGGTATCA
 TAGGAGCAGCCTTACTGTTCTGATATTCCATCTATTCATCCCATCTGAGCCCAAAGATTGCTATTTG
 CAGAGTGATGGTTTTATGAATGCATTTCCAGCCAATCTTCTATTATCTGGCTACACAATGTGGATTA
 GGATCAATCACTCTCTAGGTTCACTTGACTCTCCACCAACATGTGCCTTCTGATTCTGTGGTGAAGCC
 ACTGCCTCCATCCAGTGTGAAAGCAGAAATTAATAAACATTGGATTATTGAAAATATCTTGGGAAAAG
 CCAGTCTTTCAGAGAATAACCTTCAATCCAGATTCCGCTATGGTTTAAAGTGGAAAAGAAGTACAATGGA
 AGATGTATGAGGTTTATGATGCAAAATCAAATCTGTCAGTCTCCAGTTCAGACTTGTGTGCAGTCTA
 TGCTGTT CAGGTGCGCTGTAAGAGGCTAGATGGACTGGGATATTGGAGTAATTGGAGCAATCCAGCCTAC
 ACAGTTGT CATGGATATAAAAGTTCTATGAGAGGACCTGAATTTTGGAGAATAATTAATGGAGATACTA
 TGAAAAAGGAGAAAAATGTCACCTTACTTTGGAAGCCCTGATGAAAAATGACTCATTGTGCAGTGTTC
 GAGATATGTGATAAACCATCATACTTCCGCAATGGAACATGGTCAGAAGATGTGGGAAATCACACGAAA
 TTCCTTTCTGTGGACAGAGCAAGCACATACTGTTACGGTCTGGCCATCAATTC AATTGGTGTCTCTG
 TTGCAATTTTAAATTTAACCTTTT CATGGCCTATGAGCAAAGTAAATATCGTGCAGTCACTCAGTGCTTA
 TCCTTTAAACAGCAGTTGTGTGATTGTTTCTGGATACTATCACCAGTGATTACAAGCTAATGTATTTT
 ATTATTGAGTGGAAAAATCTTAATGAAGATGGTGAATAAAATGGCTTAGAATCTTTCATCTGTTAAGA
 AGTATTATATCCATGATCATTTTATCCCATGAGAAAGTACCAGTTCAGTCTTACCCAATATTTATGGA
 AGGAGTGGGAAAACCAAAGATAATTAATAGTTTCACTCAAGATGATATTGAAAAACACCAGAGTGATGCA
 GGTTTATATGTAATTGTGCCAGTAATTTTCTCTTCCATCTTATTGCTTGGAACATTATTAATATCAC
 ACCAAAGAATGAAAAAGCTATTTTGGGAAGATGTTCCGAACCCCAAGAATTGTTCTGGGCACAAGGACT
 TAATTTTCAGAAGAAAATGCCTGGCACAAGGAACACTGCGGTGGAGGTTGGTTGACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231439 representing NM_001198688
Red=Cloning site Green=Tags(s)

MICQKFCVLLHWEFIYVITAFNLSYPITPWRFKLSCMPPNSTYDYFLLPAGLSKNTSNSNGHYETAPEP
 KFNSSGTHFSNLKSTTFHCCFRSEQDRNCSLCA DNIEGKTFVSTVNSLVFQQIDANWNIQCWLKGD LKLF
 ICYVESL FKNLFRNYNYKVHLLYVLPVLEDSPLVPQKGSFQMVHCNCSVHECCECLVPVPTAKLNDTLL
 MCLKITSGGVIFQSP LMSVQPINMVKPDPPLGLHMEITDDGNLKI SWSSPPLVPFPLQYQVKYSENSTTV
 IREADKIVSATSLLVDSILPGSSYEVQVRGKRLDGPGIWSDWSTPRVFTTQDVIYFPPKILTSVGSNVSF
 HCIYKKENKIVPSKEIVWWMNLAEKIPQSQDYDVSDHVSKVTF FN LNETKPRGKFTYDAVYCCNEHECHH
 RYAELYVIDVNI NISCETDGYLTKMTCRWSTSTIQSLAESTLQLRYHRSSLYCSDIPSIHP ISEPKDCYL
 QSDGFYECIFQPIFLLSGYTMWIRINHSLGSLDSPPTCVLPDSVVKPLPPSSVKA EITINIGLLKISWEK
 PVFPENNLQFQIRYGLSGKEVQWKMYEVYDAKSKSVSLPVPDLCAVYAVQVRCKRLDGLGYWSNWSNPAY
 TVVMDIKVPMRGPEFWRIINGDTMKKEKNVTLWKPLMKNDLCSVQRYVINHHTSCNGT WSEDVGNHTK
 FTFWLTEQAHTVTVLAINSIGASVANFNLTFSWPMSKVNIVQSL SAYPLNSSCVIVSWILSPSDYKLMYF
 IIEWKNLNEDGEIKWLRISSSVKKYYIHDFIPIEKYQFSLYPIFMEGVGKPKIINSFTQDDIEKHQSDA
 GLYVIVPVIIS SILLGTLLISHQRMKKLFWEDV PNPKNCSWAQGLNFQKMPGT KELLGGGWLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

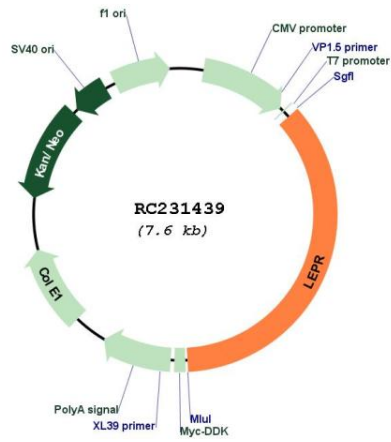
Cloning Scheme:



ACCN: NM_001198688

ORF Size:	2718 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_001198688.1 , NP_001185617.1
RefSeq ORF:	2721 bp
Locus ID:	3953
UniProt ID:	P48357
Cytogenetics:	1p31.3
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:	103.9 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 (GeneID:54741) share the same promoter and the first 2 exons, however, encode distinct proteins (PMID:9207021).[provided by RefSeq, Nov 2010]

Product images:



Circular map for RC231439