

## Product datasheet for **RG234999**

### Leptin Receptor (LEPR) (NM\_001198689) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Leptin Receptor (LEPR) (NM_001198689) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Leptin Receptor
Synonyms:	CD295; LEP-R; LEPRD; OB-R; OBR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG234999 representing NM\_001198689  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTTGTCAAAAATTCTGTGGTTTTGTACATTGGGAATTTATTTATGTGATAACTGCGTTTAACT  
 TGCATATCCAATTACTCCTGGAGATTTAAGTTGTCTTGCATGCCACCAAATTCACCTATGACTACT  
 CCTTTTGCCTGTGGACTCTCAAAGAATACTTCAAATTCGAATGGACATTATGAGACAGCTGTTGAACCT  
 AAGTTTAAATCAAGTGGTACTCACTTTTCTAACTATCCAAAACAACCTTCCACTGTTGCTTTCCGAGTG  
 AGCAAGATAGAACTGCTCCTTATGTGCAGACAACATTGAAGGAAAGACATTTGTTTCAACAGTAAATTC  
 TTTAGTTTTTCAACAAATAGATGCAAACTGGAACATACAGTGTGGCTAAAAGGAGACTTAAATATTTC  
 ATCTGTTATGTGGAGTCATTATTAAGAATCTATTAGGAATTAATACTATAAGGTCCATCTTTTATATG  
 TTCTGCCTGAAGTGTAGAAAGTTCACCTCTGGTCCCAAAAAGGCAGTTTTCCAGTGGTTCAGTCAA  
 TTGCAGTGTTCATGAATGTTGTGAATGTCTTGTGCCTGTGCCAACAGCCAACTCAACGACTCTCCTT  
 ATGTGTTTGAAAAACACATCTGGTGGAGTAATTTCCAGTCACCTCTAATGTCAGTTCAGCCATAAATA  
 TGGTGAAGCCTGATCCACCATTAGGTTTGCATATGGAAATCACAGATGATGGTAATTTAAAGATTTCTTG  
 GTCCAGCCACCATTGGTACCATTTCCACTTCAATATCAAGTGAATATTCAGAGAATTCACAACAGTT  
 ATCAGAGAAGCTGACAAGATTGTCTCAGCTACATCCCTGCTAGTAGACAGTATACTTCTGGGTCTTCGT  
 ATGAGGTTTCAAGTGGAGGCAAGAGACTGGATGGCCAGGAATCTGGAGTACTGGAGTACTCCTCGTGT  
 CTTTACCACACAAGATGCATATACTTTCCACCTAAAATCTGACAAGTGTGGGTCTAATGTTTCTTTT  
 CACTGCATCTATAAGAAGGAAAACAAGATTGTTCCCTCAAAGAGATTTGGTGGATGAATTTAGCTG  
 AGAAAATTCCTCAAAGCCAGTATGATGTTGTGAGTGATCATGTTAGCAAAGTTACTTTTTTCAATCTGAA  
 TGAACCAAACCTCGAGGAAAGTTTACCTATGATGCAGTGTACTGCTGCAATGAACATGAATGCCATCAT  
 CGCTATGCTGAATTATATGTGATTGATGTCAATATCAATATCTCATGTGAAACTGATGGTACTTAACTA  
 AAATGACTTGCAGATGGTCAACCAGTACAATCCAGTCACTTGGGAAAGCACTTTGCAATTGAGGTATCA  
 TAGGAGCAGCCTTACTGTTCTGATATTCCATCTATTATCCCATATCTGAGCCAAAGATTGCTATTTG  
 CAGAGTGTGGTTTTATGAATGCATTTCCAGCCAATCTTCTATTATCTGGCTACACAATGTGGATTA  
 GGATCAATCACTCTCTAGGTTCACTTGACTCTCCACCAACATGTGCCTTCTGATTCTGTGGTGAAGCC  
 ACTGCCTCCATCCAGTGTGAAAGCAGAAATTAATAAACATTGGATTATTGAAAATATCTTGGGAAAAG  
 CCAGTCTTCCAGAGAATAACCTTCAATCCAGATTCCGCTATGGTTTAAAGTGGAAAAGAAGTACAATGGA  
 AGATGTATGAGGTTTATGATGCAAAATCAAATCTGTCAGTCTCCAGTTCAGACTTGTGTGCAGTCTA  
 TGCTGTTCAAGTGCCTGTAAGAGGCTAGATGGACTGGGATATTGGAGTAATTGGAGCAATCCAGCCTAC  
 ACAGTTGTGATGGATATAAAAGTTCTATGAGAGGACCTGAATTTTGGAGAATAATTAATGGAGATACTA  
 TGAAAAAGGAGAAAAATGTCACCTTACTTTGGAAGCCCTGATGAAAAATGACTCATTGTGCAGTGTTC  
 GAGATATGTGATAAACCATCATACTTCCGCAATGGAACATGGTCAGAAGATGTGGGAAATCACACGAAA  
 TTCCTTTCTGTGGACAGAGCAAGCACATACTGTTACGGTCTGGCCATCAATTCATTTGGTGTCTCTG  
 TTGCAATTTTAAATTTAACCTTTTTCATGGCCTATGAGCAAAGTAAATATCGTGCAGTCACTCAGTGCTTA  
 TCCTTTAAACAGCAGTTGTGTGATTGTTTCTGGATACTATCACCAGTATTACAAGCTAATGTATTTT  
 ATTATTGAGTGGAAAAATCTTAATGAAGATGGTGAATAAAATGGCTTAGAATCTTTCATCTGTTAAGA  
 AGTATTATATCCATGATCATTTTATCCCATGAGAAAGTACCAGTTCAGTCTTACCCTAATTTTATGGA  
 AGGAGTGGGAAAACCAAAGATAATTAATAGTTTCACTCAAGATGATATTGAAAAACACCAGAGTGTGCA  
 GGTTTATATGTAATTGTGCCAGTAATTTTCTCTTCCATCTTATTGCTTGAACATTATTAATATCAC  
 ACCAAAGAATGAAAAAGCTATTTTGGGAAGATGTTCCGAACCCCAAGAATTGTTCTGGGCACAAGGACT  
 TAATTTTCAAGAGACAACGGACATTCTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG234999 representing NM\_001198689  
 Red=Cloning site Green=Tags(s)

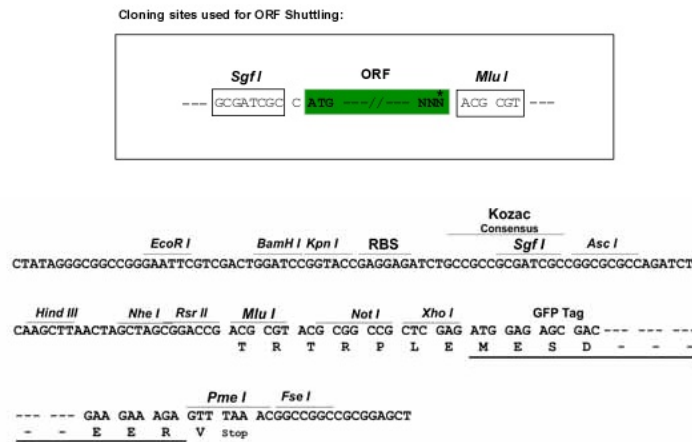
MICQKFCVLLHWEFIYVITAFNLSYPITPWRFKLSCMPPNSTYDYFLLPAGLSKNTSNSNGHYETAPEP  
 KFNSSGTHFSNLKSTTFHCCFRSEQDRNCSL CADNIEGKTFVSTVNSLVFQQIDANWNIQCWLKGDCLKF  
 ICYVESL FKNLFRNYNYKVHLL YVLEPVEDSPLVPQKGSFQMVHCNCSVHECCECLVPVPTAKLNDTLL  
 MCLKITSGGVIFQSPMSVQPINMVKPDPPLGLHMEITDDGNLKI SWSSPPLVPFPLQYQVKYSENSTTV  
 IREADKIVSATSLLDVDSILPGSSYEVQVRGKRLDGPGIWSDWSTPRVFTTQDVIYFPKILT SVGSNVSF  
 HCIYKKENKIVPSKEIVWWMNLAEKIPQSQDYDVSDHVSKVTFNLFNETKPRGKFTYDAVYCCNEHECHH  
 RYAELYVIDVNIINISCETDGYLTKMTCRWSTSTIQSLAESTLQLRYHRSSLYCSDIPSIHP ISEPKDCYL  
 QSDGFYECIFQPIFLLSGYTMWIRINHSLGSLDSPPTCVLPDSVVKPLPPSSVKAETINIGLLKISWEK  
 PVFPENNLQFQIRYGLSGKEVQWKMYEVYDAKSKSVSLPVPDLCAVYAVQVRCKRLDGLGYWSNWSNPAY  
 TVVMDIKVPMRGPEFWRIINGDTMKKEKNVTLWKPLMKNDLCSVQRYVINHHTSCNGTSEDVGNHTK  
 FTLWTEQAHTVTVLAINSIGASVANFNLTFSWPMSKVNIVQSL SAYPLNSSCVIVSWILSPSDYKLMYF  
 IIEWKNLNEDGEIKWLRISSSVKKYYIHDFIPIEKYQFSLYPIFMEGVGKPKIINSFTQDDIEKHQSDA  
 GLYVIVPVISSSILLTLLISHQRMKKLFWEDVNPKNCSWAQGLNFQKRTDIL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

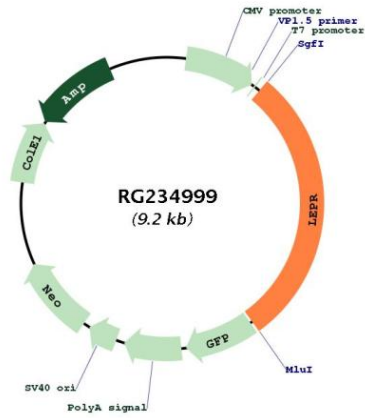
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_001198689
<b>ORF Size:</b>	2688 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001198689.1</a> , <a href="#">NP_001185618.1</a>
<b>RefSeq Size:</b>	5107 bp
<b>RefSeq ORF:</b>	2691 bp
<b>Locus ID:</b>	3953
<b>UniProt ID:</b>	<a href="#">P48357</a>
<b>Cytogenetics:</b>	1p31.3
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	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 RG234999