

# Product datasheet for RC209259

## Leptin (LEP) (NM\_000230) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

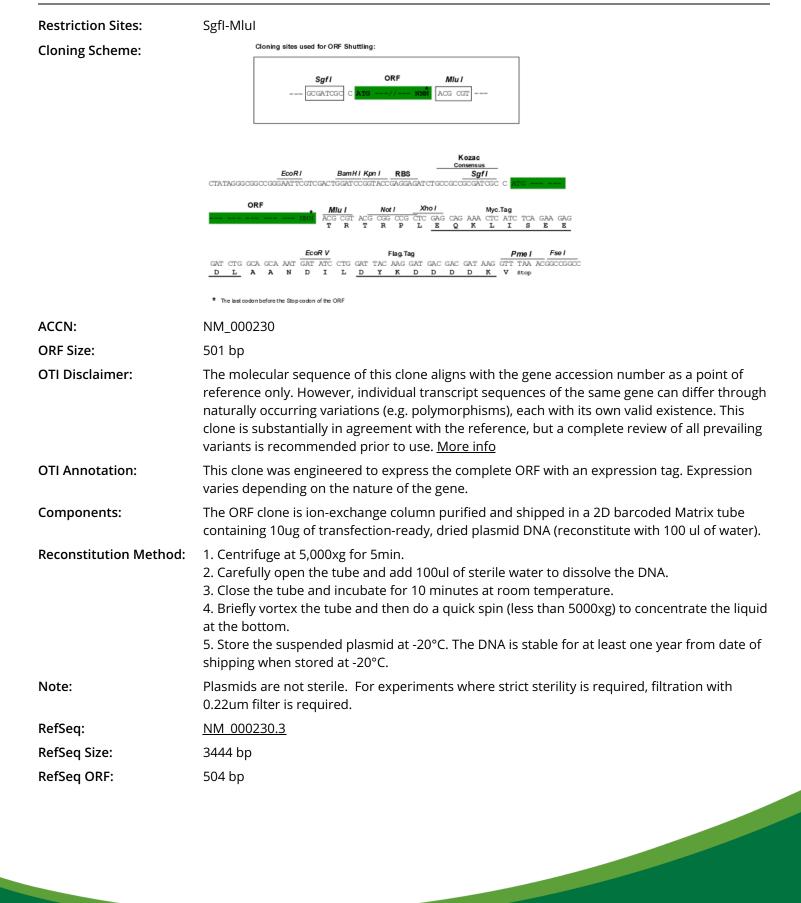
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Product Type:	Expression Plasmids
Product Name:	Leptin (LEP) (NM_000230) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Leptin
Synonyms:	LEPD; OB; OBS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209259 ORF sequence <mark>Red</mark> =Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCATTGGGGAACCCTGTGCGGATTCTTGTGGCTTTGGCCCTATCTTTTCTATGTCCAAGCTGTGCCCA TCCAAAAAGTCCAAGATGACACCAAAACCCTCATCAAGACAATTGTCACCAGGATCAATGACATTTCACA CACGCAGTCAGTCTCCTCCAAACAGAAAGTCACCGGTTTGGACTTCATTCCTGGGCTCCACCCCATCCTG ACCTTATCCAAGATGGACCAGACACTGGCAGTCTACCAACAGATCCTCACCAGTATGCCTTCCAGAAACG TGATCCAAATATCCAACGACCTGGAGAACCTCCGGGATCTTCTTCACGTGCTGGCCTTCTCTAAGAGCTG CCACTTGCCCTGGGCCAGTGGCCTGGAGACCTTCGACAGCCTGGGGGGTGTCCTGGAAGCTTCAGGCTAC TCCACAGAGGTGGTGGCCTGAGCAGGCTGCAGGGGTCTCTGCAGGACATGCTGGCCAGCTGGACCTCA GCCCTGGGTGC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>RC209259 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MHWGTLCGFLWLWPYLFYVQAVPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQKVTGLDFIPGLHPIL TLSKMDQTLAVYQQILTSMPSRNVIQISNDLENLRDLLHVLAFSKSCHLPWASGLETLDSLGGVLEASGY STEVVALSRLQGSLQDMLWQLDLSPGC
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6126_h08.zip



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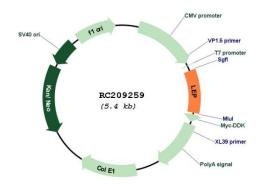
### CRIGENE Leptin (LEP) (NM\_000230) Human Tagged ORF Clone – RC209259



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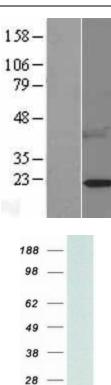
<b>GRIGENE</b> Leptin	(LEP) (NM_000230) Human Tagged ORF Clone – RC209259
Locus ID:	3952
UniProt ID:	<u>P41159</u>
Cytogenetics:	7q32.1
Domains:	Leptin
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Adipocytokine signaling pathway, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction
MW:	18.6 kDa
Gene Summary:	This gene encodes a protein that is secreted by white adipocytes into the circulation and plays a major role in the regulation of energy homeostasis. Circulating leptin binds to the leptin receptor in the brain, which activates downstream signaling pathways that inhibit feeding and promote energy expenditure. This protein also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis, reproduction, bone formation and wound healing. Mutations in this gene and its regulatory regions cause severe obesity and morbid obesity with hypogonadism in human patients. A mutation in this gene has also been linked to type 2 diabetes mellitus development. [provided by RefSeq, Aug 2017]

# **Product images:**



Circular map for RC209259

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Western blot validation of overexpression lysate (Cat# [LY400087]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209259 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified LEP protein (Cat# [TP309259]). The protein was produced from HEK293T cells transfected with LEP cDNA clone (Cat# RC209259) using MegaTran 2.0 (Cat# [TT210002]).

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