

Product datasheet for **MR200755**

Leprot (NM_175036) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Leprot (NM_175036) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Leprot
Synonyms: LEPR; OB-RGRP; Obrgrp; VPS55
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200755 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCGTTAAAGCTCTCGTGGCGCTCTCCTTCAGTGGGCAATTGGGCTGACTTTTCTTATGCTGG
 GATGTGCGTTGGAGGACTATGGCGTTTACTGGCCCTGTTCGCTTGATTTTCTACGTCATCTCCCCAT
 CCCCTACTTCATTGCCAAAAGGGTCACATATGACTCCGACGCGACCAGCAGTGCCTGTCGGGAAGTGGCG
 TATTTCTCACCACTGGGATTGTTGTTTCTGCCTTGGACTTCCTGTTGTTCTTGCTCGTGTGGATGTGA
 TCAAGTGGGAGCCTGTGGTCTTGTGCTGGCCGCAACGCTGTCAATTTCTCACAATTC AAGGCTTCTT
 CCTCGTCTTTGAAGAGGAGATGATTTTCAGTTGGGAACAGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200755 protein sequence
 Red=Cloning site Green=Tags(s)
 MAGVKALVALSFGAIGLTFMLGCALEDYGVYWPLFVLIIFYVISPIPYFIAKRVTYDSATSSACRELA
 YFFTTGIVVSAFGLPVVLRVDVIKWGACGLVLAGNAVIFLTIQGFLLVFGRGDDFSWEQW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_175036

ORF Size: 396 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_175036.4](#)

RefSeq Size: 1827 bp

RefSeq ORF: 396 bp

Locus ID: 230514

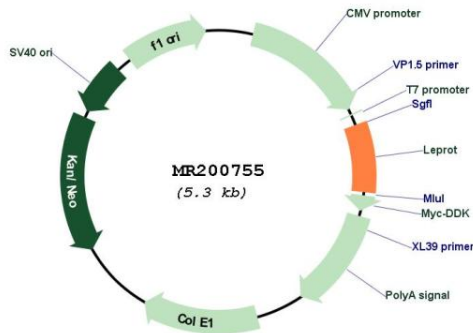
UniProt ID: [O89013](#)

Cytogenetics: 4 C6

MW: 14.3 kDa

Gene Summary: Negatively regulates leptin receptor (LEPR) cell surface expression, and thus decreases response to leptin. Negatively regulates growth hormone (GH) receptor cell surface expression in liver. May play a role in liver resistance to GH during periods of reduced nutrient availability.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200755