

Product datasheet for **MG200755**

Leprot (NM_175036) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Leprot
Synonyms: LEPR; OB-RGRP; Obrgrp; VPS55
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG200755 representing NM_175036
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGCGTTAAAGCTCTCGTGGCGCTCTCCTTCAGTGGGGCAATTGGGCTGACTTTTCTTATGCTGG
GATGTGCGTTGGAGGACTATGGCGTTTACTGGCCCTGTTCGCTTGTATTTTCTACGTCATCTCCCCAT
CCCCTACTTCATTGCCAAAAGGGTCACATATGACTCCGACGCGACCAGCAGTGCCTGTCGGGAAC TGCCG
TATTTCTTCCACTGGGATTGTTGTTTCTGCCTTTGGACTTCCTGTTGTTCTTGCTCGTGTGGATGTGA
TCAAGTGGGAGCCTGTGGTCTTGTGCTGGCCGGCAACGCTGTCAATTTTCCTACAATTCAAGGCTTCTT
CCTCGTCTTTGGAAGAGGAGATGATTTTCAGTTGGGAACAGTGG

ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200755 representing NM_175036
Red=Cloning site Green=Tags(s)

MAGVKALVALSFSGAIGLTFMLGCALEDYGVYWPLFVLIFYVISPIPYFIAKRVTYDSATSSACRELA
YFFTTGIVVSAFGLPVVLRVVDVIKWGACGLVLAGNAVIFLTIQGFVLFVGRGDDFSWEQW

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: NM_175036

ORF Size: 393 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.

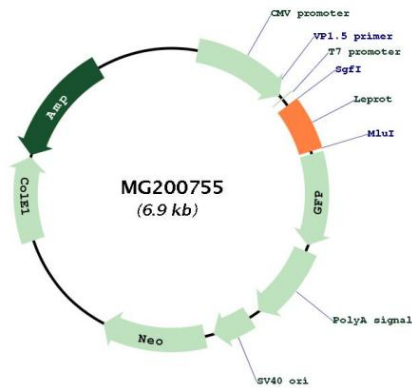
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_175036.4](#)
 RefSeq Size: 1828 bp
 RefSeq ORF: 396 bp
 Locus ID: 230514
 UniProt ID: [O89013](#)

Cytogenetics: 4 C6

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 MG200755