

Product datasheet for **RG208878**

LEPROT (NM_017526) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LEPROT (NM_017526) Human Tagged ORF Clone
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: >RG208878 representing NM_017526
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCGTTAAAGCTCTCGTGGCATTATCCTTCAGTGGGCTATTGGACTGACTTTTCTTATGCTGG
GATGTGCCTTAGAGGATTATGGCGTTTACTGGCCCTTATTCGTCCTGATTTCCACGCCATCTCCCCAT
CCCCATTTTCATTGCCAAAAGAGTCACCTATGACTCAGATGCAACCAGTAGTGCCTGTCGGGAAGTGGCA
TATTTCTCACTACTGGAATTGTTGTTTCTGCCTTGGATTTCTGTTATTCTTGCTCGTGTGGCTGTGA
TCAAATGGGGAGCCTGCGCCTTGTGTTGGCAGGCAATGCAGTCATTTTCCTTACAATTCAAGGGTTTTT
CCTTATATTTGAAGAGGAGATGATTTTAGCTGGGAGCAGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208878 representing NM_017526
Red=Cloning site Green=Tags(s)
MAGVKALVALSFGAIGLTFMLGCALEDYGVYWPLFVLI FHAISPIPHFIAKRVTYDSDATSSACRELA
YFFTTGIVVSFAFGFPVILARVAVIKWGACGLVLAGNAVIFLTIQGFLLIFGRGDDFSWEQW

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_017526

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.

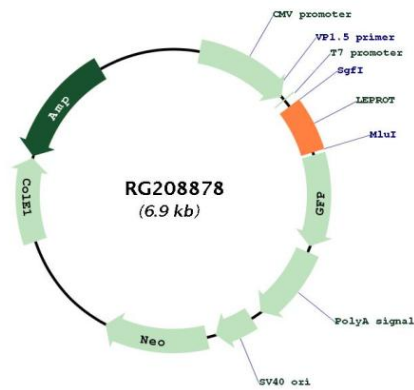
RefSeq: [NM_017526.5](#)

RefSeq Size: 1147 bp

RefSeq ORF: 396 bp

Locus ID: 54741
UniProt ID: [O15243](#)
Cytogenetics: 1p31.3
Domains: Vps55
Protein Families: Druggable Genome, Transmembrane
Gene Summary: LEPROT is associated with the Golgi complex and endosomes and has a role in cell surface expression of growth hormone receptor (GHR; MIM 600946) and leptin receptor (OBR, or LEPR; MIM 601007), thereby altering receptor-mediated cell signaling (Couturier et al., 2007 [PubMed 18042720]; Touvier et al., 2009 [PubMed 19907080]).[supplied by OMIM, Jul 2010]

Product images:



Circular map for RG208878