

# Product datasheet for RC205280L2

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## **GNPTG (NM\_032520) Human Tagged Lenti ORF Clone**

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** GNPTG (NM\_032520) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: GNPTG

Synonyms: C16orf27; GNPTAG; LP2537; RJD9

Mammalian Cell None

Selection:

**Vector:** pLenti-C-mGFP (PS100071)

E. coli Selection: Chloramphenicol (34 ug/mL)

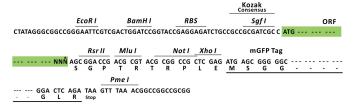
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC205280).

Sequence:

**Restriction Sites:** Sgfl-Rsrll

**Cloning Scheme:** 



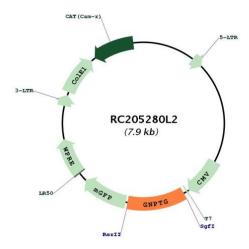


<sup>\*</sup> The last codon before the Stop codon of the ORF.





#### Plasmid Map:



**ACCN:** NM\_032520

ORF Size: 912 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:** <u>NM 032520.3</u>

RefSeq Size: 1228 bp RefSeq ORF: 918 bp



#### GNPTG (NM\_032520) Human Tagged Lenti ORF Clone - RC205280L2

 Locus ID:
 84572

 UniProt ID:
 Q9UJJ9

 Cytogenetics:
 16p13.3

**Protein Families:** Secreted Protein

MW: 33.8 kDa

**Gene Summary:** This gene encodes the gamma sunbunit of the N-acetylglucosamine-1-phosphotransferase

complex. This hexameric complex, composed of alpha, beta and gamma subunits, catalyzes the first step in synthesis of a mannose 6-phosphate lysosomal recognition marker. This enzyme complex is necessary for targeting of lysosomal hydrolases to the lysosome.

Mutations in the gene encoding the gamma subunit have been associated with mucolipidosis

IIIC, also known as mucolipidosis III gamma.[provided by RefSeq, Feb 2010]