

Product datasheet for **RC214736L1V**

GNPTAB (NM_024312) Human Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | GNPTAB (NM_024312) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | GNPTAB |
| Synonyms: | GNPTA; ICD |
| Mammalian Cell Selection: | None |
| Vector: | pLenti-C-Myc-DDK (PS100064) |
| Tag: | Myc-DDK |
| ACCN: | NM_024312 |
| ORF Size: | 3768 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC214736). |
| 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. |
| RefSeq: | NM_024312.3 |
| RefSeq Size: | 5644 bp |
| RefSeq ORF: | 3771 bp |
| Locus ID: | 79158 |
| UniProt ID: | Q3T906 |
| Cytogenetics: | 12q23.2 |
| Protein Families: | Transmembrane |
| Protein Pathways: | Lysosome |



[View online »](#)

MW: 143.6 kDa

Gene Summary: This gene encodes two of three subunit types of the membrane-bound enzyme N-acetylglucosamine-1-phosphotransferase, a heterohexameric complex composed of two alpha, two beta, and two gamma subunits. The encoded protein is proteolytically cleaved at the Lys928-Asp929 bond to yield mature alpha and beta polypeptides while the gamma subunits are the product of a distinct gene (GeneID 84572). In the Golgi apparatus, the heterohexameric complex catalyzes the first step in the synthesis of mannose 6-phosphate recognition markers on certain oligosaccharides of newly synthesized lysosomal enzymes. These recognition markers are essential for appropriate trafficking of lysosomal enzymes. Mutations in this gene have been associated with both mucopolipidosis II and mucopolipidosis IIIA. [provided by RefSeq, May 2010]