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Product datasheet for RC214736L4V

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:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
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

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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 mucolipidosis II and mucolipidosis IIIA. [provided by RefSeq, May 2010]