

Product datasheet for SC312443

GNPTAB (AL359588) Human Untagged Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	GNPTAB (AL359588) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNPTAB
Synonyms:	GNPTA; ICD
Vector:	pCMV6 series
Fully Sequenced ORF:	>NCBI ORF sequence for AL359588, the custom clone sequence may differ by one or more nucleotides
Restriction Sites:	Please inquire
ACCN:	AL359588
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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>AL359588.1, CAB94874.1</u>
RefSeq Size:	2428 bp



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GNPTAB (AL359588) Human Untagged Clone – SC312443	
RefSeq ORF:	2428 bp
Locus ID:	79158
Cytogenetics:	12q23.2
Protein Families:	Transmembrane
Protein Pathways:	Lysosome
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]

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