

Product datasheet for **SC215963**

GNPTAB (NM_024312) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	GNPTAB (NM_024312) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	GNPTAB
Synonyms:	GNPTA; ICD
ACCN:	NM_024312
Insert Size:	1695 bp



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Insert Sequence:

>SC215963 3'UTR clone of NM_024312

The sequence shown below is from the reference sequence of NM_024312. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAAGCTAGTCCCAATCGAATCAGAGTATAGAAGATCTTCATTTGAAAACCATCTACCTCAGCATTTACT
GAGCATTTTAAAACTCAGCTTCACAGAGATGTCTTTGTGATGTGATGCTTAGCAGTTTGCCCGAAGAA
GGAAAATATCCAGTACCATGCTGTTTTGTGGCATGAATATAGCCCACTGACCAGGAATTATTTAACCAA
CCCACTGAAAACCTGTGTGTTGAGCAGCTCTGAACTGATTTTACTTTTAAAGAATTTGCTCATGGACCT
GTCATCTTTTTATAAAAAGGCTCACTGACAAGAGACAGCTGTTAATTTCCACAGCAATCATTGCAGA
CTAACTTTATTAGGAGAAGCCTATGCCAGCTGGGAGTGATTGCTAAGAGGCTCCAGTCTTGCATTCCA
AAGCCTTTTGCTAAAGTTTTGCACCTTTTTTTTTTTCATTTCCATTTTTAAGTAGTTACTAAGTAACT
AGTTATTCTTGTCTCTGAGTATAACGAATTGGGATGTCTAAACCTATTTTTATAGATGTTATTTAAATA
ATGCAGCAATATCACCTCTTATTGACAATACCTAAATTAGAGTTTTATTAATTTAAGACTGTAAT
GGTCTTAAACCCTAACTACTGAAGAGCTCAATGATTGACATCTGAAATGCTTTGTAATTATTGACTTC
AGCCCCTAAGAATGCTATGATTTACGTGCAGGTCTAATTTCAAAGGGCTAGAGTTAGTACTACTTACC
AGATGTAATTATGTTTTGGAAATGTACATATTCAAACAGAAGTGCCTCATTTTAGAAATGAGTAGTGCT
GATGGCACTGGCATTACAGTGGTGTCTGTTAATACTCATTGGTATATTCCAGTAGCTATCTCTCT
CAGTTGGTTTTGATAGAACAGAGGCCAGCAAACCTTTCTTTGAAAAGGCTGGTTAGTAAATTATTGCA
GGCCACCTGTGTCTTGTACATACATTCTTCTGCTGTTGTTAGTTTGTTTTTTTTCAAACAACCCCTCT
AAAAATGTAAAAACCATGTTTAGCTTGCACTGTACAAAAACTGCCACCAGCCAGATGTGACCCCTCAG
GCCATCATTTGCCAATCACTGAGAATTAGTTTTGTTGTTGTTGTTGTTGTTGTTTTTGAGACAGAGTC
TCTCTCTGTTGCCAGGCTGGAGTGCACTGCGCAATCTCAGCTCACTGCAACCTCCGCCTCCCGGGTT
CAAGCAGTTCTGTCTCAGCCTTCTGAGTAGCTGGGACTACAGGTGCATGCCACCACACCCTGCTAATTT
TTGATTTTTTAGTAGAGACGGGGTTCCACCATATTGGTCAGGCTTATCTTGAACCTGACCTCAGGT
GATCCACCTGCCTCTGCCTCCCAAAGTGTGAGATTACAGGCATAAGCCAGTGCACCCAGCCGAGAATT
AGTATTTTTATGTATGGTTAAACCTTGGCGTCTAGCCATTTTTATGTCATAATAAATGGATTTGTGA
AGAGCAGATTCCATGAGTAACTCTGACAGGATTTTTAGATCATGATCTCAACAATATTCTCCAAAATG
GCATACATCTTTTGTACAAAGAAGTGAATGTAATACTGTGTTTGTGCTGTAAGAGTTGTGATTTTC
AAAAACTGAAATCTCATAAAAAGTAAATTTTTGTCTGA
ACGCGTAAAGCGCCGCGGCATCTAGATTGAAAGAAATGACCCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCACCAGCCGCTTCTATGAAAGG
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Restriction Sites:

SgfI-MluI

OTI Disclaimer:

Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components:

The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 µg dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq:

[NM_024312.5](#)

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]

Locus ID:

79158

MW:

64.3