

## Recombinant Human GNB3 Protein, GST-tagged

Cat. No. GNB3-5056H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human GNB3 full-length ORF ( AAH02454, 1 a.a. - 340 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. A single-nucleotide polymorphism (C825T) in this gene is associated with essential hypertension and obesity. This polymorphism is also associated with the occurrence of the splice variant GNB3-s, which appears to have increased activity. GNB3-s is an example of alternative splicing caused by a nucleotide change outside of the splice donor and acceptor sites. Additional splice variants may exist for this gene, but they have not been fully described. [provided by RefSeq]
<b>Molecular Mass</b>	63.14 kDa
<b>AA Sequence</b>	MGEMEQLRQEAQLKKQIADARKACAGVTLAELVSGLEVGRVQMRTRRTRLRGHL AKIYAMHWATDSKLLVSASQDGKLVWDSYTTNKVHAIPLRSSWVMTCAYPAGNF VACGGLDNMCSIYNLKSREGNVKVSRELSAHTGYLSCCRFLDDNNIVTSSGDTTTAL

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WDIETGQQKTVFVGHTGDCMSLAVSPDFNLFISGACDASAKLWDVREGTCRQTFT  
GHESDINAICFFPNGEAICTGSDDASCRLFDLRADQELICFSHESIICSITSVAFSLSGR  
LLFAGYDDFNCNVWDSMKSERVGILSGHDNRVSLGLVGTADGMAVATGSWDSFLKI  
WN

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	GNB3 guanine nucleotide binding protein (G protein), beta polypeptide 3 [ Homo sapiens ]
<b>Official Symbol</b>	GNB3
<b>Synonyms</b>	GNB3; guanine nucleotide binding protein (G protein), beta polypeptide 3; guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-3; transducin beta chain 3; G protein, beta-3 subunit; hypertension associated protein; GTP-binding regulatory protein beta-3 chain; guanine nucleotide-binding protein G(I)/G(S)/G(T) beta subunit 3;
<b>Gene ID</b>	2784

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mRNA Refseq [NM\\_002075](#)

Protein Refseq [NP\\_002066](#)

MIM [139130](#)

UniProt ID [P16520](#)

**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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