

# Recombinant Full Length Human GNPDA2 Protein, GST-tagged

**Cat. No.** GNPDA2-5403HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human GNPDA2 full-length ORF ( NP_612208.1, 1 a.a. - 276 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	276 amino acids
<b>Description</b>	The protein encoded by this gene is an allosteric enzyme that catalyzes the reversible reaction converting D-glucosamine-6-phosphate into D-fructose-6-phosphate and ammonium. Variations of this gene have been reported to be associated with influencing body mass index and susceptibility to obesity. A pseudogene of this gene is located on chromosome 9. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Aug 2012]
<b>Molecular Mass</b>	57.5 kDa
<b>AA Sequence</b>	MRLVILDNYDLASEWAAKYICNRIIQFKPGQDRYFTLGLPTGSTPLGCYKKLIEYHKN GHLSFKYVKTFNMDEYVGLPRNHPEYHSYMWNNFFKHIDIPNNAHILDGNAADL QAECDAFENKIKEAGGIDLFVGGIGPDGHIAFNEPGSSLVSRTRLKTLAMDTILANAK YFDGDLISKVPTMALTGVGTVMDAREVMILITGAHKAFALYKAIEEGVNHMWTVSAF QQHPRTIFVCEDEATLELRVKTVKYFKGLMHVHNKLVDPFLFSMKDGN

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<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>	GNPDA2 glucosamine-6-phosphate deaminase 2 [ Homo sapiens ]
<b>Official Symbol</b>	GNPDA2
<b>Synonyms</b>	GNPDA2; glucosamine-6-phosphate deaminase 2; glucosamine-6-phosphate isomerase 2; glucosamine 6 phosphate isomerase; SB52; GNPDA 2; 4921523118Rik; glcN6P deaminase 2; glucosamine-6-phosphate isomerase SB52; putative glucosamine-6-phosphate isomerase; GNP2;
<b>Gene ID</b>	132789
<b>mRNA Refseq</b>	NM_138335
<b>Protein Refseq</b>	NP_612208
<b>MIM</b>	613222
<b>UniProt ID</b>	Q8TDQ7

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