

Product datasheet for **TP302194**

GNPDA2 (NM_138335) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glucosamine-6-phosphate deaminase 2 (GNPDA2), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202194 protein sequence Red =Cloning site Green =Tags(s)

MRLVILDNYDLASEWAAKYICNRIIQFKPGQDRYFTLGLPTGSTPLGICYKKLIEYHKNGHLSFKYVKTFN
MDEYVGLPRNHPEYSYHSYMWNFFKHIDIDPNNAHILDGNAADLQAECDAFENKIKEAGGIDLVGGIGP
DGHIAFNEPGSSLVSRTRLKTLAMDTILANAKYFDGDLISKVSTMALTVGVGTVMVDAREVMILITGAHKAF
ALYKAIEGVNHMWTVSFAFQQHPRTIFVCEDEATLELRVKTVKYFKGLMHVHNKLVDPFLFSMKDGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	30.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_612208
Locus ID:	132789
UniProt ID:	Q8TDQ7 , A0A024R9X5



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RefSeq Size: 2313

Cytogenetics: 4p12

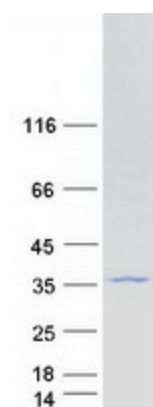
RefSeq ORF: 420

Synonyms: GNP2; SB52

Summary: 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]

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified GNPDA2 protein (Cat# TP302194). The protein was produced from HEK293T cells transfected with GNPDA2 cDNA clone (Cat# [RC202194]) using MegaTran 2.0 (Cat# [TT210002]).