

Product datasheet for **TP310292L**

GNA11 (NM_002067) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210292 protein sequence Red =Cloning site Green =Tags(s)

MTLESMMACCLSDEVKESKRINAEIEKQLRRDKRDARRELKLLLLGTGESGKSTFIKQMRIIHGAGYSEE
DKRGFTKLVYQNIFTAMQAMIRAMETLKILYKYEQNKANALLIREVDVEKVTTFEHQYVSAIKTLWEDPG
IQECYDRRREYQLSDSAKYLLTDVDRIATLGYLPTQQDVLVRVPTTGII EYFPDLENIIFRMVDVGGQR
SERRKWIHCFENVTSIMFLValseyDQVLVESDNENRMEESKALFRTIITYPWFQNSSVILFLNKKDLLE
DKILYSHLVDFPEFDGPQRDAQAAREFILKMFVDLNPDSKIIYSHFTCATDTENIRFVFAAVKDTILQ
LNLKEYNLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

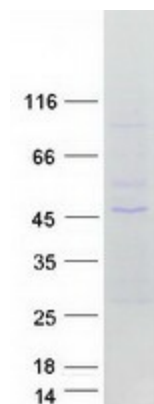
Tag:	C-Myc/DDK
Predicted MW:	41.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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:	<u>NP_002058</u>



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Locus ID:	2767
UniProt ID:	P29992
RefSeq Size:	4145
Cytogenetics:	19p13.3
RefSeq ORF:	1077
Synonyms:	FBH; FBH2; FHH2; GNA-11; HHC2; HYPOC2
Summary:	The protein encoded by this gene belongs to the family of guanine nucleotide-binding proteins (G proteins), which function as modulators or transducers in various transmembrane signaling systems. G proteins are composed of 3 units: alpha, beta and gamma. This gene encodes one of the alpha subunits (subunit alpha-11). Mutations in this gene have been associated with hypocalciuric hypercalcemia type II (HHC2) and hypocalcemia dominant 2 (HYPOC2). Patients with HHC2 and HYPOC2 exhibit decreased or increased sensitivity, respectively, to changes in extracellular calcium concentrations. [provided by RefSeq, Dec 2013]
Protein Pathways:	Calcium signaling pathway, Gap junction, GnRH signaling pathway, Long-term depression, Vascular smooth muscle contraction

Product images:



Coomassie blue staining of purified GNA11 protein (Cat# [TP310292]). The protein was produced from HEK293T cells transfected with GNA11 cDNA clone (Cat# [RC210292]) using MegaTran 2.0 (Cat# [TT210002]).