

## Product datasheet for PH310292

### GNA11 (NM\_002067) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GNA11 MS Standard C13 and N15-labeled recombinant protein (NP_002058)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210292
Predicted MW:	42.1 kDa
Protein Sequence:	>RC210292 protein sequence Red=Cloning site Green=Tags(s)
	<p>MTLESMMACCLSDDEVKESKRINAEIEKQLRRDKRDARRELKLLLLGTGESGKSTFIKQMRIIHGAGYSEE DKRGFTKLVYQNIIFTAMQAMIRAMETLKILYKYEQNKANALLIREVDVEKVTTFEHQYVSAIKTLWEDPG IQECYDRRREYQLSDSAKYLLTDVDRIATLGYLPTQQDVLRVVPTTGIIEYPPDLENIIFRMVDVGGQR SERRKWIHCFENVTSIMFLVALSEYDQVLVESDNENRMEESKALFRTIITYPWFQNSSVILFLNKKDLLE DKILYSHLVDYFPEFDGQQRDAQAAREFILKMFVDLNPDSKIIYSHFTCATDTENIRFVFAVKDTILQ LNLKEYNLV</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_002058</a>
RefSeq Size:	4145
RefSeq ORF:	1077
Synonyms:	FBH; FBH2; FHH2; GNA-11; HHC2; HYPOC2
Locus ID:	2767



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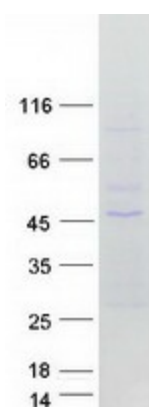
UniProt ID: [P29992](#)

Cytogenetics: 19p13.3

**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]).