

# Recombinant Human GNA11 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** GNA11-3785H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | GNA11 MS Standard C13 and N15-labeled recombinant protein (NP_002058) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | 42.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | <p>MTLESMMACCLSDEVKESKRINAEIEKQLRRDKRDARRELKLLLLGTGESGKSTFIK<br/> QMRIIHGAGYSEEDKRGFTKL VYQNIFTAMQAMIRAMETLKILYKYEQNKANALLIRE<br/> VDVEKVTTFEHQYVSAIKTLWEDPGIQECYDRRREYQLSDSAKYYLTDVDRIATLGY<br/> LPTQQDVLVRVPPTTGII EYPFDLENIIFRMVDVGGQSRERRKWIHCFENVTSIMFLV<br/> ALSEYDQVLVESDNENRMEESKALFRTIITYPWFQNSSVILFLNKKDLLEDKILYSHLV</p>                                                                                                                                                                                                                                                                                  |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DYFPEFDGPGQRDAQAAREFILKMFVDLNPDSKIIYSHFTCATDTENIRFVFAAVKDTI  
LQLNLKEYNLVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** GNA11 G protein subunit alpha 11 [ Homo sapiens (human) ]

**Official Symbol** GNA11

**Synonyms** guanine nucleotide binding protein (G protein), alpha 11 (Gq class); 4379; Ensembl:ENSG00000088256; guanine nucleotide-binding protein subunit alpha-11;g alpha-11;G-protein subunit alpha-11;guanine nucleotide-binding protein, Gq class, GNA11;guanine nucleotide-binding protein G(y) subunit alpha; GNA-11

**Gene ID** 2767

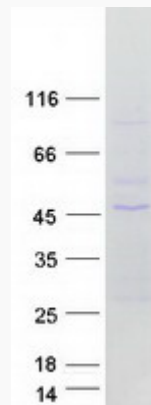
**mRNA Refseq** NM\_002067

**Protein Refseq** NP\_002058

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**MIM** 139313**UniProt ID** P29992**SDS-PAGE** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA