

# Recombinant Human RASGRP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** RASGRP2-913H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | RASGRP2 MS Standard C13 and N15-labeled recombinant protein (NP_001092141) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | The protein encoded by this gene is a brain-enriched nucleotide exchanged factor that contains an N-terminal GEF domain, 2 tandem repeats of EF-hand calcium-binding motifs, and a C-terminal diacylglycerol/phorbol ester-binding domain. This protein can activate small GTPases, including RAS and RAP1/RAS3. The nucleotide exchange activity of this protein can be stimulated by calcium and diacylglycerol. Four alternatively spliced transcript variants encoding two different isoforms have been found for this gene. |
| <b>Molecular Mass</b>   | 69.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MAGTLDLKDGCTVEELLRGCI EAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKL<br>LHIYQQSRKDNSNSLQVKTCHLVRYWISAFPAEFDLNPELAEQIKELKALLDQEGNR<br>RHSSLIDIDSVPTYKWK RQVTQRNPVGQKKRKMSLLFDHLEPMELAEHLTYLEYRSF<br>CKILFQDYHSFVTHGCTVDNPVLERFISLFNSVSQWVQLMILSKPTAPQRALVITHFV<br>HVAEKLLQLQNFNTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELVTATGN<br>YGNYYRRRLAACVGRFPILGVHLKDLVALQLALPDWLDPARTRLNGAKMKQLFSILE                                                                                                                                                     |

 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

ELAMVTSLRPPVQANPDLLSLLTVSLDQYQTEDELYQLSLQREPRSKSSPTSPTSCT  
 PPPRPPVLEEWTSAAKPKLDQALVVEHIEKMVESVFRNFDVDGDGHISQEEFQIIRG  
 NFPYLSAFGDLDQNQDGCISREEMVSYFLRSSSVLGGRMGFVHNFQESNSLRPVA  
 CRHCKALILGIYKQGLKCRACGVNCHKQCKDRLSVECRRAQSVSLEGSAPSPSPM  
 HSHHHRAFSFSLPRPGRRGSRPPEIREEEVQTVEDGVFDIHLTRTRPLEQKLISEED  
 LAANDILDYKDDDDKV

**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** RASGRP2 RAS guanyl releasing protein 2 [ Homo sapiens (human) ]

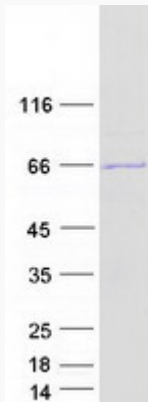
**Official Symbol** RASGRP2

**Synonyms** RASGRP2; RAS guanyl releasing protein 2 (calcium and DAG-regulated); RAS guanyl-releasing protein 2; CALDAG GEF1; hCDC25L; cdc25-like protein; F25B3.3 kinase-like protein; guanine exchange factor MCG7; RAS guanyl nucleotide-releasing protein 2; calcium and DAG-regulated guanine nucleotide exchange factor I; calcium and diacylglycerol-regulated guanine nucleotide exchange factor I; CDC25L; CALDAG-GEFI;

 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

|                |                                                                                     |
|----------------|-------------------------------------------------------------------------------------|
| Gene ID        | 10235                                                                               |
| mRNA Refseq    | NM_001098671                                                                        |
| Protein Refseq | NP_001092141                                                                        |
| MIM            | 605577                                                                              |
| UniProt ID     | Q7LDG7                                                                              |
| SDS-PAGE       |  |