

## Product datasheet for TP305498

### RASGEF1A (NM\_145313) Human Recombinant Protein

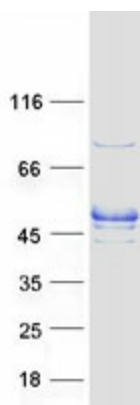
#### Product data:

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:                         | Recombinant Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Description:                          | Recombinant protein of human RasGEF domain family, member 1A (RASGEF1A), 20 µg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Species:                              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Expression Host:                      | HEK293T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Expression cDNA Clone or AA Sequence: | >RC205498 protein sequence<br><span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)<br><br>MPQTSVVFSSILGPSCSGVQVQPGMGERGGGAGGGSGDLIFQDGHLSGSLEALMEHLVPTVDYYPDRTYI<br>FTLLSSRVFMPPHDLLARVGQICVEQKQQLLEAGPEKAKLKSFSKIVQLLEWTEAFPYDFQDEKAMAE<br>LKAITHRVTVQCDDENGTVKKAIAQMTQSLLSLAARSQQLREKLRPAPVDKGPILKTKPPAAQKDILG<br>VCCDPLVLAQQLTHIEDRVSSIYPEDLMQIVSHMDSLNDHRCRGDLTKTYSLEAYDNWFNCLSMVATE<br>VCRVVKKKHRTMLFEFFIDVARECFNIGNFNMSMAIISGMNLSPPVARLKKTWKSKVTAKFDVLEHHMDPS<br>SNFCNYRTALQGATQRSQMANSSREKIVPVFNLFVKDIYFLHKIHTNHLNPNHINFKKFWEISRQIHEF<br>MTWTQVECPFEKDKKIQSYLLTAPIYSEELFVASFESEGPENHVEKDSWKTLLRLLNRA<br><br><span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLISEEDLAANDILDYKDDDDKV</span> |
| Tag:                                  | C-Myc/DDK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Predicted MW:                         | 54.4 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><a href="#">NP_660356</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |


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|               |                                                                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Locus ID:     | 221002                                                                                                                                                               |
| UniProt ID:   | <u>Q8N9B8</u>                                                                                                                                                        |
| RefSeq Size:  | 3243                                                                                                                                                                 |
| Cytogenetics: | 10q11.21                                                                                                                                                             |
| RefSeq ORF:   | 1443                                                                                                                                                                 |
| Synonyms:     | CG4853                                                                                                                                                               |
| Summary:      | Guanine nucleotide exchange factor (GEF) with specificity for RAP2A, KRAS, HRAS, and NRAS (in vitro). Plays a role in cell migration.[UniProtKB/Swiss-Prot Function] |

### Product images:



Coomassie blue staining of purified RASGEF1A protein (Cat# TP305498). The protein was produced from HEK293T cells transfected with RASGEF1A cDNA clone (Cat# [RC205498]) using MegaTran 2.0 (Cat# [TT210002]).