

## Product datasheet for **TP307809M**

### **PRKAR1B (NM\_002735) Human Recombinant Protein**

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant protein of human protein kinase, cAMP-dependent, regulatory, type I, beta (PRKAR1B), 100 µg |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC207809 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)                            |

MASPPACPSEEDSLKGCELYVQLHGIQQVLKDCIVHLCISKPERPMKFLREHFKEKEENRQILARQK  
SNSQSDSHDEEVSPTPNPVVKARRRRGGVSAEVYTEEDAVSYVRKVIPKDYKTMTALAKAISKNVLFAH  
LDDNERSDIFDAMFPVTHIAGETVIQQNEGDNFYVVDQGEVDVYVNGEWWTNISEGGSFGELALIYGTP  
RAATVKAKTDLKLWIGIDRDSYRRILMGSTLRKRKMYEEFLSKVSILESLEKWERLTVADALEPVQFEDGE  
KIVVQGEPGDDFYIITEGTASVLQRRSPNEEYVEVGRLGPSDYFGEIALLLNRPRAATVWARGPLKCVKL  
DRPRFERVLGPCSEILKRNIQRYNSFISLTV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 42.9 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><a href="#">NP_002726</a></u>   |



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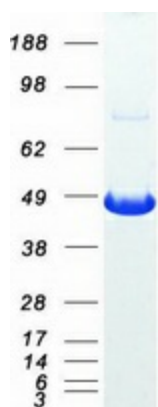
Locus ID: 5575  
UniProt ID: [P31321](#)  
RefSeq Size: 2512  
Cytogenetics: 7p22.3  
RefSeq ORF: 1143  
Synonyms: PRKAR1

**Summary:** The protein encoded by this gene is a regulatory subunit of cyclic AMP-dependent protein kinase A (PKA), which is involved in the signaling pathway of the second messenger cAMP. Two regulatory and two catalytic subunits form the PKA holoenzyme, disbands after cAMP binding. The holoenzyme is involved in many cellular events, including ion transport, metabolism, and transcription. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2015]

**Protein Families:** Druggable Genome

**Protein Pathways:** Apoptosis, Insulin signaling pathway

### Product images:



Coomassie blue staining of purified PRKAR1B protein (Cat# [TP307809]). The protein was produced from HEK293T cells transfected with PRKAR1B cDNA clone (Cat# [RC207809]) using MegaTran 2.0 (Cat# [TT210002]).