

## Product datasheet for **TP309769**

### GBP4 (NM\_052941) Human Recombinant Protein

#### Product data:

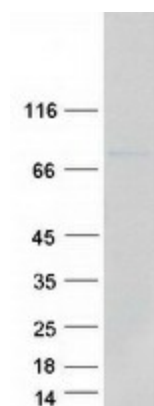
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:                         | Recombinant Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Description:                          | Recombinant protein of human guanylate binding protein 4 (GBP4), 20 µg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Species:                              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Expression Host:                      | HEK293T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Expression cDNA Clone or AA Sequence: | >RC209769 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                       | <p>MGERTLHAAVPTPGYPESESIMMAPICLVENQEEQLTVNSKALEILDKISQPVVVAIVGLYRTGKSYLM<br/> NRLAGKRNGFPLGSTVQSETKGIWMWCVPHLSKPNHTLVLLDTEGLGDVEKSNPKNDWIFALAVLLSSS<br/> FVYNSVSTINHQAELQLHYVTELAELIRAKSCPRPDEAEDSSEFASFFPDFIWTVRDFTLELKLDGNPIT<br/> EDEYLENALKLIPGKNPKIQNSNMPRECIRHFFRKRKCFVDRPTNDKQYLNHMDEVPEENLERHFLMQS<br/> DNFCSYIFTHAKTKTLRKGIIVTGKRLGTLVVTYVDAINS GAVPCLEN AVTALA QLEN PAAVQRAADHYS<br/> QQMAQQRLRLPTDTLQELLDVHAACERIAVFMESFKDENHEFQKKLVDTIEKKKGDFVLQNEEASAKY<br/> CQAEKRLSEHLTESILRGIFSVPGGHNLYLEKKQVEWDYKLVPRKGVKANEVLQNFLQSQVVEESIL<br/> QSDKALTAGEKSIAAERAMKEAAEKEQELLREKQKEQQQMMEAQERSFQEYMAQMEKKLEERENLLRE<br/> H<br/> ERLLKHKLKVQEEMLKEEFQKKSEQLNKEINQLKEKIESTKNEQLRLLKILDMASNIMIVTLPGASKLLG<br/> VGTKYLGSR</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p> |
| Tag:                                  | C-Myc/DDK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Predicted MW:                         | 73 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability:</b>    | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                           |
| <b>RefSeq:</b>       | <u>NP_443173</u>                                                                                                                                                        |
| <b>Locus ID:</b>     | 115361                                                                                                                                                                  |
| <b>UniProt ID:</b>   | <u>Q96PP9</u>                                                                                                                                                           |
| <b>RefSeq Size:</b>  | 6160                                                                                                                                                                    |
| <b>Cytogenetics:</b> | 1p22.2                                                                                                                                                                  |
| <b>RefSeq ORF:</b>   | 1920                                                                                                                                                                    |
| <b>Synonyms:</b>     | Mpa2                                                                                                                                                                    |
| <b>Summary:</b>      | Guanylate-binding proteins, such as GBP4, are induced by interferon and hydrolyze GTP to both GDP and GMP (Vestal, 2005 [PubMed 16108726]).[supplied by OMIM, Dec 2008] |

### Product images:



Coomassie blue staining of purified GBP4 protein (Cat# TP309769). The protein was produced from HEK293T cells transfected with GBP4 cDNA clone (Cat# [RC209769]) using MegaTran 2.0 (Cat# [TT210002]).