

## Product datasheet for **TP319841**

### **EIF4G1 (NM\_198241) Human Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Homo sapiens eukaryotic translation initiation factor 4 gamma, 1 (EIF4G1), transcript variant 2, 20 µg

**Species:** Human

**Expression Host:** HEK293T



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**Expression cDNA Clone** >RC219841 representing NM\_198241  
**or AA Sequence:** Red=Cloning site Green=Tags(s)

MNKAPQSTGPPPAPSPGLPQPAFPPGQTAPVVFSTPQATQMNTSPQPRQHFYPSRAQPPSSAASRVQSAA  
 PARPGAAHVYPAGSQVMMIPSQISYPASQGAYYIPGQGRSTYVPTQQYPVQPGAPGFYPGASPTFEFGT  
 YAGAYYPAQGVQGFPTGVAPAPVLMNQPPQIAPKRERKTIRIRDPNQGGKDITEEIMSGARTASTPTPPQ  
 TGGGLEPQANGETPQVAVIVRPDDRSQGAIIADRLPGPEHSPSESQPSSPSPTSPSPVLEPGSEPNL  
 AVLSIPGDTMTTIQMSVEESTPISRETGEPYRLSPEPTPLAEPILVEVTLTKVPPESEFSSSPLQAPT  
 LASHTVEIHEPNGMVPSDELPEVESSPELAPPACPSSESPVPIAPTAQPELLNGAPSPPAVDLSPVSE  
 PEEQAKEVTASMAPPTIPSATPATAPSATSPAQEEEMEEEEEEEGEAGEAGEAESEKGGEEELLPESTP  
 IPANLSQNLEAAAATQVAVSVPKRRRKIKELNKKEAVGDLDAFKEANPAVPEVENQPPAGSNPGESEG  
 SGVPPRPEEADETWDSKEDIHNAENIQPGEQKYEYKSDQWKPLNLEEKRYDREFFLGFQFIFASMQKP  
 EGLPHISDVLKANKTPLRPLDPTLRLQGINCGPDFTPSFANLGRITLSTRGPPRGGPGGELPRGPAGLG  
 PRRSQGPRKEPRKIIATVLMTEDIKLNKAEKAWKPSKRATAADKDRGEEDADGSKTQDLFRRVRSILNK  
 LTPQMFMQQLMKQVTLAIDTEERLKGVIDLIFEKAISEPNFSVAYANMCRCLMALKVPTTEKPTVTNFR  
 KLLLNRQKFEFEKDKDDDEVFEKKQKEMDEAATAEERGRLEEELEARDIARRRSLGNIKFIGELFKLKM  
 LTEAIMHDCVVKLLKNHDEESLECLRLLTIGKDLDFEKAKPRMDQYFNQMEKIIKEKKTSSRIRFMLQ  
 DVLDLRGSNWVPRRGDQGPKTIDQIHKEAEMEEHREHIKVQQLMAKGSKRRGGPPGPPISRGLPLVDDG  
 GWNTVPIKGSRPIDTSRLTKITKPGSIDSNNQLFAPGGRLSWGKGSSSGGSGAKPSDAASEAARPATSTL  
 NRFSAQQAVPTSTDNRRVVQRSSLSRERGEKAGDRGDRLESERGGDRGDRLEDRARTPATKRSFSKEV  
 EERSRERPSQPEGLRKAASLTEDRDRGRDAVKREAAALPPVSPKAALESEELEKSKAIIIEYLHLNDMK  
 EAVQCVQELASPSLLFIFVRHGVSTLERSAIAREHMGQLLHQLLCAGHLSTAQYYQGLYEILELAEDME  
 IDIPHWLYLAELVTPILQEGGVPMGELFREITKPLRPLGKAASLLLEILGLLCKSMGPKKVGTLWREAG  
 LSWKEFLPEGQDIGAFVAEQKVEYTLGEESEAPGQRALPSEELNRQLEKLLKEGSSNQRVFDWIEANLSE  
 QQIVSNTLVRALMTAVCYSIIIFETPLRVDVAVLKARAKLLQKYLCDCEQKELQALYALQALVLTLEQPPN  
 LLRMFFDALYDEDVVKEDAFYSWESSKDPAEQQGKGVALKSVTAFFKWLREAEESDHN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

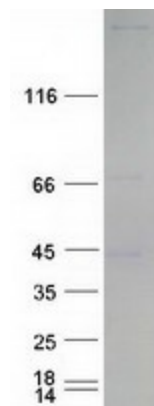
- Tag:** C-Myc/DDK
- Predicted MW:** 175.3 kDa
- Concentration:** >0.05 µg/µL as determined by microplate BCA method
- Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining
- Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
- Preparation:** Recombinant protein was captured 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:	<a href="#">NP_937884</a>
Locus ID:	1981
UniProt ID:	<a href="#">Q04637</a> , <a href="#">Q96I65</a>
RefSeq Size:	5463
Cytogenetics:	3q27.1
RefSeq ORF:	4797
Synonyms:	EIF-4G1; EIF4F; EIF4G; EIF4GI; P220; PARK18

**Summary:** The protein encoded by this gene is a component of the multi-subunit protein complex EIF4F. This complex facilitates the recruitment of mRNA to the ribosome, which is a rate-limiting step during the initiation phase of protein synthesis. The recognition of the mRNA cap and the ATP-dependent unwinding of 5'-terminal secondary structure is catalyzed by factors in this complex. The subunit encoded by this gene is a large scaffolding protein that contains binding sites for other members of the EIF4F complex. A domain at its N-terminus can also interact with the poly(A)-binding protein, which may mediate the circularization of mRNA during translation. Alternative splicing results in multiple transcript variants, some of which are derived from alternative promoter usage. [provided by RefSeq, Aug 2010]

**Protein Pathways:** Viral myocarditis

### Product images:



Coomassie blue staining of purified EIF4G1 protein (Cat# TP319841). The protein was produced from HEK293T cells transfected with EIF4G1 cDNA clone (Cat# [RC219841]) using MegaTran 2.0 (Cat# [TT210002]).