

## Product datasheet for PH319841

### EIF4G1 (NM\_198241) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	EIF4G1 MS Standard C13 and N15-labeled recombinant protein (NP_937884)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219841
Predicted MW:	175.3 kDa
Protein Sequence:	>RC219841 representing NM_198241 Red=Cloning site Green=Tags(s)

MNKAPQSTGPPAPSPGLPQPAFPPGQTAPVVFSTPQATQMNTPSQPRQHFYPSRAQPPSSAASRVQSAA  
PARPGPAAHVYPAGSQVMMIPSQISYPASQGAYYIPGQGRSTYVVPTQQYYPVPGAPGFYPGASPTFTGT  
YAGAYYPAQGVQFPTGVAPVLMNQPPQIAPKRERKTIIRDPNQGGKDIITEEIMSGARTASTPTPPQ  
TGGGLEPQANGETPQVAVIVRPDDRSQGAIIADRPGLPGPEHSPSESQSPSSPSTPSPVLEPGSEPNL  
AVLSIPGDTMTTIQMSVEESTPISRETGEPYRLSPEPTPLAEPILVEVTL SKPVPESEFSSSPLQAPT  
LASHTVEIHEPNGMVPSEDLPEVESSPELAPPACSESPVPIAPTAQPEELLNGAPSPPAVDLSPVSE  
PEEQAKEVTASMAPPTIPSATPATAPSATSPAQEEEMEEEEEEGEAGEAGEAESEKGGEELLPPESTP  
IPANLSQNL EAAAATQVAVSVPKRRRRIKELNKKEAVGDLLDAFKEANPAVPEVENQPPAGSNPGPESEG  
SGVPPRPEEADETWDSKEDKIHNENIQPGEQKYEYKSDQWKPLNLEEKRYDREFLLGFQFIFASMQKP  
EGLPHISDVVLDKANKTPLRPLDPTRLQGINCGPDFTPSFANLGRITLSTRGPPRGGPGGELPRGPAGLG  
PRRSQQGPRKEPRKIIATVLMTEEDIKLNKAEKAWKPSSKRTAADKDRGEEDADGSKTQDLFRRVRSILNK  
LTPQMFQQLMKQVTQLAIDTEERLKGVIDLIFEKAISEPNF SVAYANMCRCLMALKVPTTEKPTVTNFR  
KLLLNRQKQEFKDKDDDEVFEKKQKEMDEAATAEERGRLEEEARDIARRSLGNIKF IGELFKLKM  
L TEAIMHDCVVKLLKNHDEESLECLRLLTTIGKDLDFEKAKPRMDQYFNQMEKIIKEKKTSSRIRFMLQ  
DVLDLRGSNWVPRRGDQPKTIDQIHKEAEMEEHREHIKVQQLMAKGSDDRGGPPGPPISRGLPLVDDG  
GWNTVPI SKGSRPIDTSRLTKITKPGSIDSNNQLFAPGGRLSWGKSSGGSGAKPSDAASEAARPATSTL  
NRF SALQQAVPTESTDNRRRVVQSSLSRERGEKAGDRGDRLE SERGGDRGDRLE DRARTPATKRSF SKEV  
EERSRERPSQPEGLRKAASLTEDRDRGRDAVKREAAALPPVSPLKAALSEEELEKSKAIIIEEYHLNDMK  
EAVQCVQELASPSLLFIFVRHGVESTLERSAIAREHMQLLHQLLCAGHLSTAQYYQGLYEILELAEDME  
IDIPHVWLYLAELVTPILQEGGVPMGELFREITKPLRPLGKAASLLLEILGLLCKSMGPKKVGTLWREAG  
LSWKEFLPEGQDIGAFVAEQKVEYTLGEESEAPGQRALPSEELNRQLEKLLKEGSSNQRFVDWIEANLSE  
QQIVSNTLVRALMTAVCYSIIIFETPLRVDVAVLKARAKLLQKYLCEQKELQALYALQALVVTLEQPPN  
LLRMFFDALYDEDVVKEDAFYSWESSKDPAEQQGKGVALKSVTAFFKWLREAEESDHN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

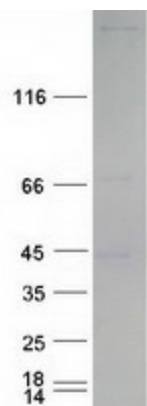
Tag: C-Myc/DDK



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<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Labeling Method:</b>	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3
<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_937884</a>
<b>RefSeq Size:</b>	5463
<b>RefSeq ORF:</b>	4797
<b>Synonyms:</b>	EIF-4G1; EIF4F; EIF4G; EIF4GI; P220; PARK18
<b>Locus ID:</b>	1981
<b>UniProt ID:</b>	<a href="#">Q04637</a> , <a href="#">Q96165</a>
<b>Cytogenetics:</b>	3q27.1
<b>Summary:</b>	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]
<b>Protein Pathways:</b>	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]).