

Product datasheet for PH312877

EIF4G1 (NM_004953) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	EIF4G1 MS Standard C13 and N15-labeled recombinant protein (NP_004944)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212877
Predicted MW:	154.6 kDa
Protein Sequence:	>RC212877 representing NM_004953 Red=Cloning site Green=Tags(s)

MSGARTASTPTTPQTGGGLEPQANGETPQVAVIVRPDDRSQGAIADRPGLPGPEHSPSESQPSSPSPTP
 SPSVLEPGSEPNLAVLSIPGDTMTTIQMSVEESTPISRETGEPYRLSPEPTPLAEPILVEVTL SKPVP
 ESEFSSSPLQAPTPLASHTVEIHEPNGMVPSEDLPEVESSPELAPPPACPSSESPVPIAPTAQPEELLNG
 APSPPAVDLSPVSEPEEQAKEVTASVAPPTIPSATPATAPSATSPAQEEEMEEEEEEGEAGEAGEAES
 EKGGEELLPESTPIPANLSQNLEAAAATQVAVSVPKRRRIKELNKKEAVGDLDAFKEANPAVPEVEN
 QPPAGSNPGESESGVPPRPEEADETWDSKEDIHNAENIQPGEQKYEYKSDQWKPLNLEEKRYDREF
 LLGFQFIFASMQKPEGLPHISDVVLDKANKTPLRPLDPTRLQGINCGPDFTPSFANLGRITLSTRGPPRG
 GPGGELPRGPAGLPPRRSQGPRKEPRKIATVLMTEIDIKLNKAEKAWKPSKRTAADKDRGEEDADGSK
 TQDLFRVRSILNKLTPQMFQQLMKQVTLAIDTEERLKGVIDLIFEKAISEPNFVAVANMCRCLMALK
 VPTTEKPTVTNFRKLLNRCQKEFEKDKDDDEVFEKKQKEMDEAATAEERGRLEELEEARDIARRRSL
 GNIKFIGELFKLMLTEAIMHDCVVKLLKNHDEESLECLRLLTTIGKDLDFEKAKPRMDQYFNQMEKII
 KEKKTSSRIRFMLQDVLDLRGSNWVPRRGDQGPKITDQIHKEAEMEEHREHIKVQQLMAKGSDDRGGPP
 GPPISRGLPLVDDGGWNTVPI SKGSRPIDTSRLTKITKPGSIDSNNQLFAPGGRLSWGKSSGGSGAKPS
 DAASEAARPATSTLNRF SALQQAVPTESDNRRVVQRSSL SRERGEKAGDRGDRLESERGGDRGDRDLDR
 ARTPATKRSFSKEVEERSRERPSQPEGLRKAASLTEDRDRGRDAVKREALPPVSPLKAALSEEELEKKS
 KAIIEEYHLNMDKEAVQCVELASPSLLFIFVRHGVSTLERSAIAREHMQLLHQLL CAGHLSTAQYY
 QGLYEILELAEDMEIDIPHWLYLAELVTPILQEGGVPMGELFREITKPLRPLGKAASLLEILGLLCKS
 MGPKKVGTWREAGLSWKEFLPEGQDIGAFVAEQKVEYTLGEESEAPGQRALPSEELNRQLEKLLKEGSS
 NQRVFDWIEANLSEQQIVSNLVRALMTAVCYSAIIFETPLRVDVAVLKARAKLLQKYL CDEQKELQALY
 ALQALVVTLEQPPNLLRMFFDALYDEDVVKEDAFYSWESSKDPAEQQGKGVALKSVTAFFKWLREAEES
 DHN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

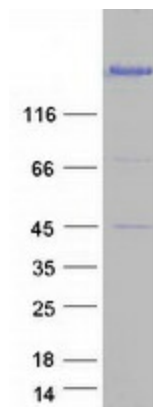
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



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Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004944
RefSeq Size:	5045
RefSeq ORF:	4209
Synonyms:	EIF-4G1; EIF4F; EIF4G; EIF4GI; P220; PARK18
Locus ID:	1981
UniProt ID:	Q04637
Cytogenetics:	3q27.1
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# [TP312877]). The protein was produced from HEK293T cells transfected with EIF4G1 cDNA clone (Cat# [RC212877]) using MegaTran 2.0 (Cat# [TT210002]).