

## Product datasheet for PH301751

### ILF2 (NM\_004515) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ILF2 MS Standard C13 and N15-labeled recombinant protein (NP_004506)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201751
Predicted MW:	43.1 kDa
Protein Sequence:	>RC201751 protein sequence Red=Cloning site Green=Tags(s)  MRGDRGRGRGGRFGSRGGPGGGFRPFVPHIPDFYLCEMAFPRVKPAPDETSFSEALLKRNQDLAPNSAE QASILSLVTKINNVIDNLIIVAPGTFEVQIEEVRQVGSYKKGTTGHNVADLVVILKILPTLEAVAALGN KVVESLRAQDPSEVLTMLTNETGFEISSDATVKILITTVPPNLRKLDPELHLDIKVLSALAAIRHARW FEENASQSTVKVLIIRLLKDLRIRFPGFEP LTPWILDLLGHYAVMNNPTRQPLALNVAYRRLQILAAGLF LPGSVGITDPCESGNFRVHTVMTLEQQDMVCYTAQTLVRILSHGGFRKILGQEGDASYLASEISTWDGVI VTPSEKAYEKPEKKEGEEEEENTEPPQGEEEEEMETQE  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	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
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:	<u><a href="#">NP_004506</a></u>
RefSeq Size:	1934
RefSeq ORF:	1170
Synonyms:	NF45; PRO3063
Locus ID:	3608



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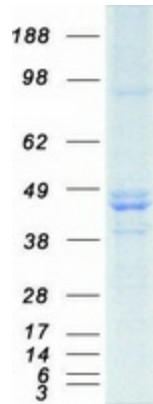
UniProt ID: [Q12905](#), [F4ZW62](#), [Q53FG3](#)

Cytogenetics: 1q21.3

**Summary:** The protein encoded by this gene is a transcription factor required for T-cell expression of the interleukin 2 gene. It also binds RNA and is an essential component for encapsidation and protein priming of hepatitis B viral polymerase. The encoded 45 kDa protein (NF45, ILF2) forms a complex with the 90 kDa interleukin enhancer-binding factor 3 (NF90, ILF3), and this complex has been shown to affect the redistribution of nuclear mRNA to the cytoplasm, to repair DNA breaks by nonhomologous end joining, and to negatively regulate the microRNA processing pathway. Knockdown of NF45 or NF90 protein retards cell growth, possibly by inhibition of mRNA stabilization. Alternative splicing results in multiple transcript variants. Related pseudogenes have been found on chromosomes 3 and 14. [provided by RefSeq, Dec 2014]

**Protein Families:** Druggable Genome, Transcription Factors

### Product images:



Coomassie blue staining of purified ILF2 protein (Cat# [TP301751]). The protein was produced from HEK293T cells transfected with ILF2 cDNA clone (Cat# [RC201751]) using MegaTran 2.0 (Cat# [TT210002]).