

## Product datasheet for TP506641

### Irf3 (NM\_016849) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse interferon regulatory factor 3 (Irf3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206641 representing NM_016849 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  METPKPRILPWLVSQDLGQLEGVAWLDESRTFRIPWKHGLRQDAQMADFGIFQAWAEASGAYTPGKDK PDVSTWKRNFERSALNRKEVLRRAADNSKDPYDPHKVYEFVTPGARDFVHLGASPDNTGKSSLPHSQENLP KLFDGILGLPKDEGSSDLAIVSDPSQQLPSPNVNINFLNPAPQENPLKQLLAEQWFEVTAFYRGRQVF QQTFLFCPGGLRLVGSTADMTLPWQPVTLPDPEGFLTDKLVKEYVGQVLKGLGNLALWQAGQCLWAQRLG HSHAFWALGEELLPDSGRGPDGEVHKDKDGAVFDLRPFVADLIAFMEGSGHSPRYTLWFCMGEMWPDQDP WVKRLVMVKVPTCLKELLEMAREGGASSLKTVDLHISNSQPISLTSQYKAYLQDLVEDMDFQATGNI  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-MYC/DDK
Predicted MW:	47.3 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
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 after receiving vials.
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_058545</a>
Locus ID:	54131
UniProt ID:	<a href="#">P70671</a> , <a href="#">Q3U9K6</a>



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RefSeq Size: 2041

Cytogenetics: 7 B3

RefSeq ORF: 1257

Synonyms: C920001K05Rik; IRF-3

**Summary:** Key transcriptional regulator of type I interferon (IFN)-dependent immune responses which plays a critical role in the innate immune response against DNA and RNA viruses (PubMed:15800576). Regulates the transcription of type I IFN genes (IFN-alpha and IFN-beta) and IFN-stimulated genes (ISG) by binding to an interferon-stimulated response element (ISRE) in their promoters (PubMed:15800576). Acts as a more potent activator of the IFN-beta (IFNB) gene than the IFN-alpha (IFNA) gene and plays a critical role in both the early and late phases of the IFNA/B gene induction (PubMed:16846591, PubMed:16979567, PubMed:20049431). Found in an inactive form in the cytoplasm of uninfected cells and following viral infection, double-stranded RNA (dsRNA), or toll-like receptor (TLR) signaling, is phosphorylated by IKBKE and TBK1 kinases (PubMed:16846591, PubMed:16979567, PubMed:20049431). This induces a conformational change, leading to its dimerization and nuclear localization and association with CREB binding protein (CREBBP) to form dsRNA-activated factor 1 (DRAF1), a complex which activates the transcription of the type I IFN and ISG genes (PubMed:16846591, PubMed:16979567, PubMed:20049431). Can activate distinct gene expression programs in macrophages and can induce significant apoptosis in primary macrophages (PubMed:16846591, PubMed:16979567, PubMed:20049431).[UniProtKB/Swiss-Prot Function]