# IRF3 Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | IRF3, Recombinant Protein |
| **Full Product Name** | Recombinant Human IRF3, N-His |
| **Product Gene Name** | IRF3 recombinant protein |
| **Product Synonym Names** | IRF-3; IRF3; Interferon regulatory factor 3 |
| **Host** | E coli |
| **Form/Format** | Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol. |
| **Purity/Purification** | >90% as determined by SDS-PAGE |
| **Preparation and Storage** | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt. |
| **Molecular Weight** | 47,219 Da |
| **Sequence Positions** | Met1-Ser123 |
| **Chromosome Location** | Chromosome: 19; NC_000019.9 (50162826..50169132, complement). Location: 19q13.3-q13.4 |
| **OMIM** | 603734 |
| **3D Structure** | ModBase 3D Structure for Q14653 |
| **Species** | Human |
| **Reconstitution** | Reconstitute in sterile water for a stock solution. |
| **Product Categories/Family for IRF3 recombinant protein** | Recombinant Proteins |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for IRF3 recombinant protein** | SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen |
| **Related Product Information for IRF3 recombinant protein** | MBS1574706 is a recombinant protein targeting IRF3. Also known as Recombinant Human IRF3, N-His. Host: E coli. |
| **Other Notes** | Small volumes of IRF3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRF3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 308199450 |
| **NCBI GeneID** | 3661 |
| **NCBI Accession #** | NP_001184053.1 |
| **UniProt Primary Accession #** | Q14653 |
| **UniProt Secondary Accession #** | Q5FBY1; A8K7L2 |

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| **UniProt Related Accession #** | Q14653 |
| **GenBank Nucleotide #** | NM_001197124.1 |
| **NCBI Official Full Name** | interferon regulatory factor 3 isoform 4 |
| **NCBI Official Synonym Full Names** | interferon regulatory factor 3 |
| **NCBI Official Symbol** | IRF3 |
| **UniProt Protein Name** | Interferon regulatory factor 3 |
| **Protein Family** | Interferon regulatory factor |
| **UniProt Gene Name** | IRF3 |
| **UniProt Synonym Gene Names** | IRF-3 |
| **UniProt Entry Name** | IRF3_HUMAN |
| **NCBI Protein Information** | interferon regulatory factor 3 |
| **NCBI Summary for IRF3** | This gene encodes a member of the interferon regulatory transcription factor (IRF) family. The encoded protein is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. This complex translocates to the nucleus and activates the transcription of interferons alpha and beta, as well as other interferon-induced genes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011] |
| **UniProt Comments for IRF3** | IRF3: interferon regulatory factor 3, a member of the interferon regulatory transcription factor (IRF) family. IRF3 is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. This complex translocates to the nucleus and activates the transcription of interferons alpha and beta, as well as other interferon-induced genes.<br><br>Protein type: Transcription factor; DNA-binding<br><br>Chromosomal Location of Human Ortholog: 19q13.3-q13.4<br><br>Cellular Component: nucleoplasm; cytoplasm; cytosol; nucleus<br><br>Molecular Function: identical protein binding; protein binding; protein homodimerization activity; DNA binding; transcription cofactor activity; transcription factor activity<br><br>Biological Process: negative regulation of interferon-beta biosynthetic process; transcription from RNA polymerase II promoter; positive regulation of I-kappaB kinase/NF-kappaB cascade; viral reproduction; apoptosis; cytokine and chemokine mediated signaling pathway; MyD88-independent toll-like receptor signaling pathway; negative regulation of transcription from RNA polymerase II promoter; toll-like receptor 3 signaling pathway; negative regulation of defense response to virus by host; response to exogenous dsRNA; positive regulation of interferon type I production; lipopolysaccharide-mediated signaling pathway; positive regulation of interferon-beta production; toll-like receptor signaling pathway; innate immune response; interferon type I biosynthetic process; toll-like receptor 4 signaling pathway; response to DNA damage stimulus; negative regulation of interferon type I production; defense response to virus; positive regulation of interferon-alpha production; positive regulation of cytokine secretion<br><br>Disease: Herpes Simplex Encephalitis, Susceptibility To, 7 |
| **Research Articles on IRF3** | **1.** Ultraviolet radiation also upregulated mitogen-activated protein kinases and nuclear factor-kappaB/p65 expression via Toll-like receptor 2 and Toll-like receptor 4, and upregulated interferon regulatory factor-3 expression |
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