

Product datasheet for MC207502

Irf3 (NM_016849) Mouse Untagged Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Irf3 (NM_016849) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	lrf3
Synonyms:	C920001K05Rik; IRF-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207502 representing NM_016849 Red=Cloning site Blue=ORF Orange=Stop codon
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGGAAACCCCCGAAACCGCGGATTTTGCCCTGGCTGGTGTCACAGCTGGACCTGGGGCAGCTGGAAGGCG TGGCCTGGCTGGACGAGAGCCGAACGAGGTTCAGGATCCCGTGGAAGCATGGCCTACGGCAGGACGCACA GATGGCTGACTTTGGCATCTTCCAGGCCTGGGCAGAAGCCAGTGGTGCCTACACCCCGGGGAAGGATAAG CCGGACGTGTCAACCTGGAAGAGGAATTTCCGGTCAGCCCTGAACCGGAAAGAAGTGTTGCGGTTAGCTG CTGACAATAGCAAGGACCCTTATGACCCTCATAAAGTGTATGAGTTTGTGACTCCAGGGGCGCGGGACTT AAGTTATTTGATGGCCTGATCTTGGGGCCCCTCAAAGATGAGGGGTCCTCAGATCTGGCTATTGTTTCTG ATCCTTCTCAACAACTGCCAAGCCCCAATGTGAACAACTTCCTAAACCCTGCACCCCAAGAAAATCCACT GAAGCAGCTGCTAGCTGAGGAACAATGGGAGTTCGAGGTGACCGCCTTCTACCGAGGCCGCCAGGTCTTC CAGCAGACACTCTTTTGCCCGGGGGGGCCTGCGGCTGGTGGGCAGCACAGCTGACATGACACTGCCCTGGC AGCCAGTCACCCTGCCCGATCCTGAGGGGGTTTCTGACGGACAAGCTTGTGAAGGAGTACGTGGGGCAGGT GCTCAAAGGGCTGGGCAATGGGCTGGCACTGTGGCAGGCTGGGCAGTGCCTCTGGGCCCAGCGCCTAGGC CACTCCCACGCCTTCTGGGGTCTGGGGGGGGGGGGGGGCTGCTTCCAGACAGTGGGCGAGGGCCTGATGGAGAGG TCCACAAGGACAAGGACGGAGCCGTGTTCGACCTCAGGCCCTTCGTGGCAGATCTGATTGCCTTCATGGA AGGAAGTGGACACTCCCCACGCTACACTCTGTGGTTCTGCATGGGGGAAATGTGGCCCCAGGACCAGCCA TGGGTCAAGAGGCTTGTGATGGTCAAGGTTGTTCCTACATGTCTTAAGGAGCTGTTAGAGATGGCCCGGG TGACCAGTACAAGGCCTACCTCCAGGACTTGGTGGAGGACATGGACTTCCAGGCCACTGGAAATATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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GRIGENE Irf3 (N	M_016849) Mouse Untagged Clone – MC207502
Chromatograms:	https://cdn.origene.com/chromatograms/ja1861_c09.zip
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_016849
Insert Size:	1260 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>BC050882</u> , <u>AAH50882</u>
RefSeq Size:	2053 bp
RefSeq ORF:	1260 bp
Locus ID:	54131
UniProt ID:	<u>P70671</u>
Cytogenetics:	7 B3

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CRIGENE Irf3 (NM_016849) Mouse Untagged Clone – MC207502

Gene 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 dsRNAactivated 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]

Transcript Variant: This variant (1) represents the protein-coding transcript.

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