

Product datasheet for MR229847

Irf7 (NM_001252600) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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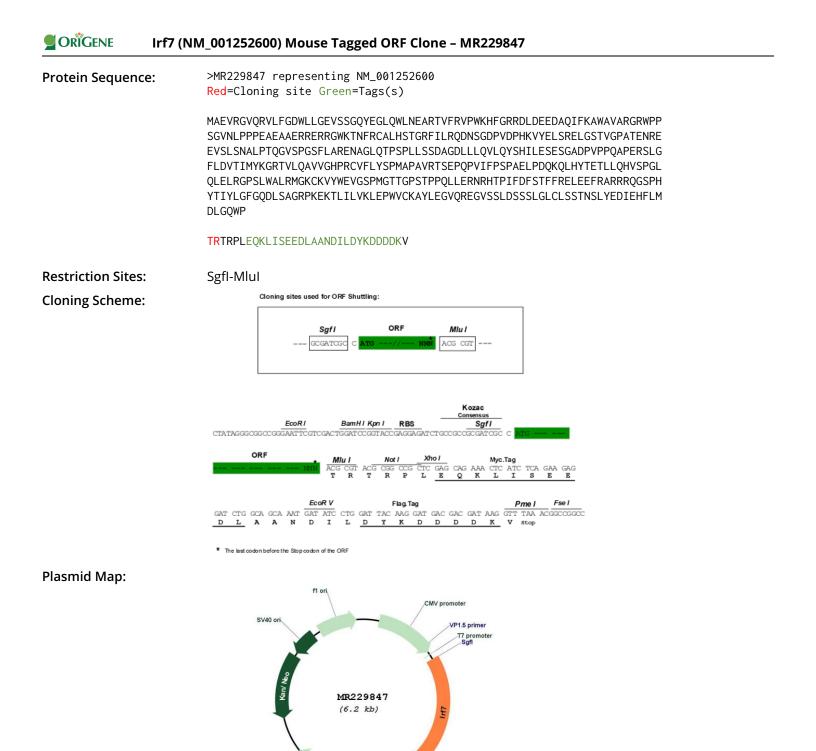
Product Type:	Expression Plasmids
Product Name:	Irf7 (NM_001252600) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irf7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229847 representing NM_001252600 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTGAAGTGAGGGGGGTCCAGCGAGTGCTGTTTGGAGACTGGCTATTGGGGGAGGTCAGCAGCGGCC AGTACGAGGGGCTGCAGTGGCTGAACGAGGCTCGCACAGTCTTCCGCGTACCCTGGAAGCATTTCGGTCG TAGGGATCTGGATGAAGAAGATGCACAGATCTTCAAGGCCTGGGCTGTGGCCCGAGGGAGG

ACCT ACCA ACTTCCGCTGTGCACTCCACAGCACAGGGCGTTTTATCTTGCGCCAAGACAATTCAGGGGATCCAGTTGA TCCGCATAAGGTGTACGAACTTAGCCGGGAGCTTGGATCTACTGTGGGCCCAGCCACGGAAAATAGGGAA GAAGTGAGCCTCAGCAATGCTCTGCCCACACAGGGTGTGTCCCCAGGATCATTTCTGGCAAGAGAAAATG CTGGGCTCCAAACCCCAAGCCCTCTGCTTTCTAGTGATGCCGGGGACCTCTTGCTTCAGGTTCTGCAGTA CAGCCACATACTGGAATCCGAGTCTGGGGCAGACCCCGTCCCACCACAGGCTCCTGAGCGCAGCCTTGGG TTCCTGGATGTGACCATCATGTACAAGGGCCGCACAGTGCTACAGGCAGTGGTGGGGCACCCCAGATGCG TGTTCCTGTACAGCCCCATGGCCCCAGCAGTAAGAACTTCAGAGCCCCAGCCGGTGATCTTTCCCAGTCC TGCTGAGCTCCCAGATCAGAAGCAGCTGCACTACACAGAGACGCTTCTCCAGCATGTGTCTCCCGGCCTT CAGCTGGAGCTTCGAGGACCGTCACTGTGGGCCCTGCGTATGGGCAAGTGCAAGGTGTACTGGGAGGTAG CTTCGACTTCAGCACTTTCTTCCGAGAACTGGAGGAGTTTCGGGCTCGGAGGCGGCAAGGGTCACCACAC TACACCATCTACCTGGGTTTTGGGCAAGACTTGTCAGCAGGGAGGCCCAAGGAGAAGACCCTGATCCTGG TGAAGCTGGAGCCATGGGTATGCAAGGCATACCTGGAGGGCGTGCAGCGTGAGGGTGTGTCCTCCCTGGA CAGCAGCAGTCTCGGCTTGTGCTTGTCTAGCACCAACAGTCTCTACGAAGACATCGAACACTTCCTCATG GACCTGGGTCAGTGGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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Mlul Myc-DDK XL39 primer

PolyA signal

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ORIGENE Irf7 (NM_001252600) Mouse Tagged ORF Clone – MR229847	
ACCN:	NM_001252600
ORF Size:	1278 bp
OTI Disclaimer:	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>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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>NM 001252600.1, NP 001239529.1</u>
RefSeq Size:	1783 bp
RefSeq ORF:	1281 bp
Locus ID:	54123
Cytogenetics:	7 F5
MW:	48.1 kDa

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Gene Summary:

Key transcriptional regulator of type I interferon (IFN)-dependent immune responses and plays a critical role in the innate immune response against DNA and RNA viruses (PubMed:27129230). 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. Can efficiently activate both the IFN-beta (IFNB) and the IFN-alpha (IFNA) genes and mediate their induction via both the virus-activated, MyD88-independent pathway and the TLR-activated, MyD88-dependent pathway. Induces transcription of ubiquitin hydrolase USP25 mRNA in response to lipopolysaccharide (LPS) or viral infection in a type I IFN-dependent manner (PubMed:27129230). Required during both the early and late phases of the IFN gene induction but is more critical for the late than for the early phase. Exists in an inactive form in the cytoplasm of uninfected cells and following viral infection, double-stranded RNA (dsRNA), or toll-like receptor (TLR) signaling, becomes phosphorylated by IKBKE and TBK1 kinases. This induces a conformational change, leading to its dimerization and nuclear localization where along with other coactivators it can activate transcription of the type I IFN and ISG genes. Can also play a role in regulating adaptive immune responses by inducing PSMB9/LMP2 expression, either directly or through induction of IRF1. Binds to the Q promoter (Qp) of EBV nuclear antigen 1 a (EBNA1) and may play a role in the regulation of EBV latency. Can activate distinct gene expression programs in macrophages and regulate the anti-tumor properties of primary macrophages.[UniProtKB/Swiss-Prot Function]

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