

Product datasheet for **MR207393**

Ifit1 (NM_008331) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ifit1 (NM_008331) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ifit1
Synonyms:	Ifi56; ISG56; P56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207393 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAGAGAATGCTGATGGTGACCAGGTCATGGAGAATCTGCTTCAGCTGAGATGTCACCTCACATGGA
 AGCTGCTATTTGAAAATAATGACATACCTGATTTGGAAGTGAGAATCTCAGAGCAGGTCCAGTTCCTTGA
 CATCAAGAACCCATTGGGGATGCACAACCTCCTGGCCTACGTGAGGCACCTGAAAGGCCAGCAGGACGAA
 GCCCTGCAGAGCTTGAAAGAAGCTGAAGCCTTGATCCAGAGCGAGCAGCTGAGCAAGAGAAGCCTGGCGA
 CCTGGGGCAACTGTGCCTGGCTGCATTACCACAGGGGCAGCTTGGCAGAAGCCAGATCTACCTGGACAA
 GGTGGAGAAGGTGTGCAAGGAATTTCAAGTCCCTCCGCTACAGGCTGGAGTGTGCTGAGATGGACTGT
 GAGGAAGGCTGGCCTTGCTGAAGTGTGGAGGAGGAAATTATAAACAAGCCATGGCCTGCTTTGCGAAGG
 CTCTGAAAGTGGAGCCAGAAAACCTGAGTACAACACTGGCTATGCAGTCGTAGCCTATCGCCAAGATTT
 AGATGACAACCTTTATTTCTCTAGAACCTTTGAGGAAGGCTGTCCGTTAAATCCAGAAGATCCATACCTT
 AAAGTTCTCCTTGCCCTAAAGCTTCAGGATTTAGGAGAACATGTTGAAGCAGAAGCACACATTGAAGAAG
 CCCTCAGCAGCACATCTTGCCAAAGCTATGTCATTTCGCTATGCAGCCAAATATTTCCGTAGGAAACATCG
 CGTAGACAAAAGCTCTTCACTTTAAACAGGGCCTTGACAGGCATCACCTTCTCTGGCTACTTACATTAT
 CAAAAAGGGCTCTGCTACAAGCAACAAATCTCCAAGTGGAGCATCCCAGAAACAGGCAGCCAGAAAGGC
 AGGACAATGTGCAAGAATTGGCACAACAGGCCATTCATGAATTTCAAGAGACTTTGAAACTGAGGCCAC
 ATTTGAGATGGCTATGTTTGCATGGCTGAAGTGCAGGCAGAAATTCACCAGTATGAAGAAGCAGAGAGA
 AATTTCCAGAAGGCACTGAACAACAAGACCCTCGTGGCTCACATAGAGCAGGATATCACCTCCGCTATG
 GCCGTTTCTACAGTTTCATAAGCAGTCAGAAGACAAGGCAATCACCTCTACTTAAAAGGTTCAAAAAGT
 GGAAGAGAAGTCTTTGCTTGGAGGAACTACTGACTGCTTTGGAGAAAGTGGCTGAAAGACGTGTTTGT
 CAGAATGTTTCTGTTGAGAGTACCAGCCTTCTGGGCTAGTCTACAACTGAAAGGACAAGAGAAAA
 ATGCTCTGTTTTACTATGAGAAGGCACTGAGGCTCACTGGGAAATGAACCCTGCATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207393 protein sequence
 Red=Cloning site Green=Tags(s)

MGENADGDQVMENLLQLRCHFTWKLLFENNDIPDLEVRISEQVQFLDIKNPLGMHLLAYVRHLKGQDE
 ALQSLKEAEALIQSEQLSKRSLATWGNCAWLHYHRGSLAEAQIYLDKVEKVCKEFSSPFRYRLECAEMDC
 EEGWALLKCGGGNYKQAMACFAKALKVEPENPEYNTGYAVVAYRQDLDDNFISLEPLRKAVRLNPEDPYL
 KVLLALKLQDLGEHVEAEAHIEEALSSTSCQSYVIRYAAKYFRRKHRVDKALHLLNRAEQSPSSGYLHY
 QKGLCYKQQLISLRTSRNRQPRRQDNVQELAQQAIHEFQETLKL RPTFEMAYVCM AEVQAEIHQYEEAER
 NFQKALNNKTLVAHIEQDIHLRYGRFLQFHKQSEDKAITLYLKGLKVEEKSFAWRKLLTALEKVAERRVC
 QNVHLESTSLGLVYKLGQEKALFYFEKALRLTGEMNPAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_008331

ORF Size: 1392 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. [More info](#)

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:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. 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: [NM_008331.3](#)
RefSeq Size: 2638 bp

RefSeq ORF: 1392 bp

Locus ID: 15957

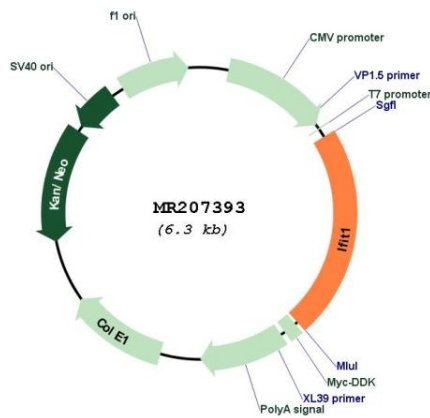
UniProt ID: [Q64282](#)

Cytogenetics: 19 C1

MW: 53.7 kDa

Gene Summary: Interferon-induced antiviral RNA-binding protein that specifically binds single-stranded RNA bearing a 5'-triphosphate group (PPP-RNA), thereby acting as a sensor of viral single-stranded RNAs and inhibiting expression of viral messenger RNAs. Single-stranded PPP-RNAs, which lack 2'-O-methylation of the 5' cap and bear a 5'-triphosphate group instead, are specific from viruses, providing a molecular signature to distinguish between self and non-self mRNAs by the host during viral infection. Directly binds PPP-RNA in a non-sequence-specific manner. Viruses evolved several ways to evade this restriction system such as encoding their own 2'-O-methylase for their mRNAs or by stealing host cap containing the 2'-O-methylation (cap snatching mechanism).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207393