

## Product datasheet for **MC200183**

### Ifit1 (NM\_008331) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ifit1 (NM_008331) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ifit1
Synonyms:	Ifi56; ISG56; P56
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC003768 sequence for NM\_008331  
 CCCACGCGTCCGGGACAGGTTTCTGAGGAGTTCTGCTCTGCTGAAAACCCAGAGAACAGCTACCACCTTTA  
 CAGCAACCATGGGAGAGAATGCTGATGGTGACCAGGTCATGGAGAATCTGCTTCAGCTGAGATGTCACTT  
 CACATGGAAGCTGCTATTTGAAAATAATGACATACCTGATTTGGAAGTGAGAATCTCAGAGCAGGTCCAG  
 TTCCTTGACATCAAGAACCATTGGGGATGCACAACCTCCTGGCTACGTGAGGCACCTGAAAGGCCAGC  
 AGGACGAAGCCCTGCAGAGCTTGAAGAAGCTGAAGCCTTGATCCAGAGCGAGCAGCTGAGCAAGAGAAG  
 CCTGGCGACCTGGGGCACTGTGCCTGGCTGCATTACCACAGGGGCAGCTTGGCAGAAGCCAGATCTAC  
 CTGGACAAGGTGGAGAAGGTGTGCAAGGAATTTCAAGTCCCTCCGCTACAGGCTGGAGTGTGCTGAGA  
 TGGACTGTGAGGAAGGCTGGGCCTTGTGAAGTGTGGAGGAGGAAATTATAAAACAAGCCATGGCCTGCTT  
 TGCGAAGGCTCTGAAAGTGGAGCCAGAAAACCTGAGTACAACACTGGCTATGCAGTCGTAGCCTATCGC  
 CAAGATTTAGATGACAACCTTTATTTCTCTAGAACCTTTGAGGAAGGCTGTCCGGTTAAATCCAGAAGATC  
 CATACCTTAAAGTTCTCCTTGCCCTAAAGCTTCAGGATTTAGGAGAACATGTTGAAGCAGAAGCACACAT  
 TGAAGAAGCCCTCAGCAGCACATCTTGCCAAAGCTATGTCATTCGCTATGCAGCCAAATATTTCCGTAGG  
 AAACATCGCGTAGACAAAGCTCTTCTTCTTAAACAGGGCCTTGCAAGGATCACCTTCTCTGGCTACT  
 TACATTATCAAAAAGGGCTCTGCTACAAGCAACAATCTCCCACTGAGGACATCCCGAAACAGGCAGCC  
 CAGAAGGCAGGACAATGTGCAAGAATTGGCACAACAGGCCATTGATGAAATTTCAAGAGACTTTGAAACTG  
 AGGCCACATTTGAGATGGCCTATGTTTGCATGGCTGAAGTGCAGGCAGAAATTCACCAGTATGAAGAAG  
 CAGAGAGAAAATTTCCAGAAGGCACTGAACAACAAGACCCTCGTGGCTCACATAGAGCAGGATATTACCT  
 CCGCTATGGCCGTTTCTACAGTTTCATAAGCAGTCAGAAGACAAGGCAATCACCTCTACTTAAAAGGT  
 CTAAAAGTGGAAGAGAAGTCTTTGCTTGGAGGAACTACTGACTGCTTTGGAGAAAAGTGGCTGAAAGAC  
 GTGTTTGTGAGAATGTTTCTTGTAGAGAGTACCAGCCTTCTTGGGCTAGTCTACAAACTGAAAGGACA  
 AGAGAAAAATGCTCTGTTTTACTATGAGAAGGCCTGAGGCTCACTGGGAAATGAACCTGCATTCTGA  
 ATGCAGCTCACCTCTGTGACGTTAATATACTACAACCAAGTGTCCAATGCTCCTTCTGATTTCTTT  
 CCCAGGCTGTTTTGTTGTTGTTGTTGTTGTTGTTTCTTTCTGAAATGCCAAGTAGCAAGGTACATTTCT  
 CCTGTGACTTCTTTCTGTTCTTTCTGACCTGTCTAGCAGGCAATTCCATCCCAAGGATACATACTCACT  
 TAAAGATCACAACCTGATTCTGTGTTTGGACTCCTGTGAGCTGTAGAATCACACAACCTTTTCTTTA  
 TGTCTGTGCCCTTTGGAACAGATATCTTCCACCCTTTGCTAATGCTCCTGGACAAAAAGTCTTTGCCAAAG  
 AAGGTATTTTTTTTTTAAATGTCACCGGAAATGCTTATTACCATACAATTTAGAGCAAAAACAAATGAGCA  
 AAGAAGAAAGTTTGAAGCAAAAAGGTCACACATTACTGGAAAGATACTAAGAACCAAGAAGACTTTTG  
 GCTTACTAGAGAATTTAAATGAAAACCTCCTTAGGTAGTAAAGTCTGAAAATTACATAAATAACTTCTT  
 TCAATATTTATATGCTAAAAGTATTCATTGAAAGTGACCAAAATAGTTAAAGCCAAAACCAAAAAA  
 AGAAAGAAAGAAAGAAAGAGAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAAAGAAAA  
 GAAAAGAAAAGAAAAAAGAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_008331
- Insert Size:** 1392 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:** [BC003768](#), [AAH03768](#)

**RefSeq Size:** 2196 bp

**RefSeq ORF:** 1392 bp

**Locus ID:** 15957

**UniProt ID:** [Q64282](#)

**Cytogenetics:** 19 C1

**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]