

## Product datasheet for **MG207393**

### Ifit1 (NM\_008331) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ifit1 (NM_008331) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ifit1
Synonyms:	Ifi56; ISG56; P56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207393 representing NM\_008331  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGAGAGAATGCTGATGGTGACCAGGTCATGGAGAATCTGCTTCAGCTGAGATGTCACCTTCACATGGA  
 AGCTGCTATTTGAAAATAATGACATACCTGATTTGGAAGTGAGAATCTCAGAGCAGGTCCAGTTCCTTGA  
 CATCAAGAACCCATTGGGGATGCACAACCTCCTGGCCTACGTGAGGCACCTGAAAGGCCAGCAGGACGAA  
 GCCCTGCAGAGCTTGAAAGAAGCTGAAGCCTTGATCCAGAGCGAGCAGCTGAGCAAGAGAAGCCTGGCGA  
 CCTGGGGCAACTGTGCCTGGCTGCATTACCACAGGGCAGCTTGGCAGAAGCCAGATCTACCTGGACAA  
 GGTGGAGAAGGTGTGCAAGGAATTTCAAGTCCCTTCCGCTACAGGCTGGAGTGTGCTGAGATGGACTGT  
 GAGGAAGGCTGGCCTTGCTGAAGTGTGGAGGAGGAAATTATAACAAGCCATGGCCTGCTTTGCGAAGG  
 CTCTGAAAGTGGAGCCAGAAAACCTGAGTACAACACTGGCTATGCAGTCGTAGCCTATCGCCAAGATTT  
 AGATGACAACCTTTATTTCTCTAGAACCTTTGAGGAAGGCTGTCCGTTAAATCCAGAAGATCCATACCTT  
 AAAGTTCTCCTTGCCCTAAAGCTTCAGGATTTAGGAGAACATGTTGAAGCAGAAGCACACATTGAAGAAG  
 CCCTCAGCAGCACATCTTGCCAAAGCTATGTCATTCGCTATGCAGCCAAATATTTCCGTAGGAAACATCG  
 CGTAGACAAAAGCTCTTCACTTTAAACAGGGCCTTGCAAGGCATCACCTTCTCTGGCTACTTACATTAT  
 CAAAAAGGGCTCTGCTACAAGCAACAAATCTCCCAACTGAGGACATCCCGAAACAGGCAGCCAGAAGGC  
 AGGACAATGTGCAAGAATTGGCACAACAGGCCATTCATGAATTTCAAGAGACTTTGAAACTGAGGCCAC  
 ATTTGAGATGGCCTATGTTTGCATGGCTGAAGTGCAGGCAGAAATTCACCAGTATGAAGAAGCAGAGAGA  
 AATTTCCAGAAGGCACTGAACAACAAGACCCTCGTGGCTCACATAGAGCAGGATATTCACCTCCGCTATG  
 GCCGTTTCTACAGTTTCATAAGCAGTCAGAAGACAAGCAATCACCTCTACTTAAAAGGCTAAAAGT  
 GGAAGAGAAGTCCCTTGCTTGGAGGAACTACTGACTGCTTTGGAGAAAGTGGCTGAAAGACGTGTTTGT  
 CAGAATGTTTCTGTTGAGAGTACCAGCCTTCTGGGCTAGTCTACAACTGAAAGGACAAGAGAAAA  
 ATGCTCTGTTTTACTATGAGAAGGCACTGAGGCTCACTGGGAAATGAACCCTGCATT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207393 representing NM\_008331  
 Red=Cloning site Green=Tags(s)

MGENADGDQVMENLLQLRCHFTWKLLFENNDIPDLEVRRISEVQVFLDIKNPLGMHNLAYVRHLKGQDE  
 ALQSLKEAEALIQSEQLSKRSLATWGNCAWLHYHRGSLAEAQIYLDKVEKVCKEFSSPFRYRLECAEMDC  
 EEGWALLKCGGGNYKQAMACFAKALKVEPENPEYNTGYAVVAYRQDLDDNFISLEPLRKAVRLNPEDPYL  
 KVLLALKLQDLGEHVEAEAHIEEALSSTSCQSYVIRYAAKYFRKHRVDKALHLLNRALQASPSSGYLHY  
 QKGLCYKQIISLRTSRNRQPRRQDNVQELAQQAIEHFQETLKLKLRPTFEMAYVCMAEVQAEIHQYEEAER  
 NFQKALNNKTLVAHIEQDIHLRYGRFLQFHKQSEDKAITLYLKGLKVEEKFAWRKLLTALEKVAERRVC  
 QNVHLVESTSLLGLVYKLGQEKNALFYYEKALRLTGEMNPAF

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_008331.3</a>
<b>RefSeq Size:</b>	2639 bp
<b>RefSeq ORF:</b>	1392 bp
<b>Locus ID:</b>	15957
<b>UniProt ID:</b>	<a href="#">Q64282</a>
<b>Cytogenetics:</b>	19 C1
<b>Gene Summary:</b>	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]