

Product datasheet for **MG207516**

Ifit2 (NM_008332) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ifit2 (NM_008332) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ifit2
Synonyms:	AV302338; Ifi54; P54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207516 representing NM_008332
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGTACAACGAGTAAGGAGTCACTGGAGAGCAATCTGCGACAGCTAAAATGCCATTTACCTGGAACC
 TGATAGCAGAAGATGAGTCCTTGATGAGTTTGGAGACAGGGTGTAAACAAGGATGAGTTTCAGAACAG
 TGAGTTTAAAGCCACCATGTGCAACATACTGGCCTATGTAAGCACTGCAGAGGTCTAAATGAGGCAGCA
 CTGCAATGCTTAGGGGAAGCTGAGGGCTTCATCCAGCAACAGCATCCTGACCAAGTAGAAATCAGAAGTC
 TGGTCACCTGGGAAACTATGCTTGGGTCTACTATCACATGGGCCAGTTCTCAAAGGCTCAGGCTTATCT
 GGATAAAGTGAACAGGTCTGCAAGAAGTTTTCCAGCCCTACAGGATTGAGAATCTGCTCTTGACTGT
 GAGGAGGGTGGCCCGATTAAGTGTACCAAGAACCAAAACGAGAGAGTGAAGGTGTGTTCCAGAAGG
 CTCTGGAAAAGGACCCGAAGAACCAGAATTCACCTCTGGATGGCCATTGCGAACTACCGTCTGGATGA
 CTGGCCAGCAAGGAATTACTGCATTGACTCTCTGGAGCAAGCCATTCACTGTCTCTGACAACACTTAT
 GTTAAAGTCTCTTGGCACTGAAGCTTGACGCGGTACATAAAAACCAAGCAATGGCGCTGGTTGAAGAAG
 CCTTAAAGAAAGACCCAAGTGAATAGATACACTCCTCAGGGCAGCCAGGTTTTATTGCAAGGTATATGA
 CACAGACAGAGCTATACAGTTGCTTAGAAAAGCTTTGGAAAAGCTGCCAAACAACGCCTATGTGCATTAC
 TATATGGGGTGTGTTATAGGTCAAAGTCCATCATATGTTGAACAGAAGGGAAATGGTATTTAGTGGGG
 ATAGGAAGAAGTTAGAGGAACTAATACTGCGAGTGAATCACTTACGGAAAGCAGAGGAAATCAAGGA
 GATGCTTGAATATTCCTGTAGCTTCCTTGCTGATCTTTATATCATAGCAAAAAGTATGACGAAGCCGAT
 TACTACTCCAGAAAAGTATGAGCAAGGACCTCCCTCTGGCCCTAAACAGTTACTCCACCTTCGGTATG
 GCAACTTTCAGTTTTTTCAAATGAAGCGTCAAGACAAGGCTATCTACCATTATATGGAGGGTGTGAAAAT
 AAAGAAGAAAACAATCCCCAAAAAAGATGAGAGAGAAACTTCAAAGAATTGCCCTAAGGCGGCTTCAT
 GAAGATGAGTCTGATTCTGAGGCCTGCATATCTTGGCATTCTTCAGGAGAATGGAGGAGTCAAGCAAG
 CTGATAAAGACTCTGAGAGGGGAGTGGACTCTGCAAACCAGGTACCTTCAGCATCTTTGGATGAAGCAGG
 TGCTGAATAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207516 representing NM_008332
 Red=Cloning site Green=Tags(s)

MSTTSKESLESNLRQLKCHFTWNLIAEDESLEDEFDRVFNKDEFQNSEFKATMCNILAYVKHCRGLNEAA
 LQCLGEAEGFIQQQHPDQVEIRSLVTWGNyawvyyhmgqfSKAQAYLDKVKQVCKKFSSPYRIENPALDC
 EEGWARLKCTKNQNERVKVCFQKALEKDPKNPEFTSGWAIANYRLDDWPARNYCIDSLEQAIQLSPDNTY
 VKVLLALKLDAVHKNQAMALVEEALKKDPsAIDTLLRAARFYCKVYDTRAIQLLRKALEKLPNNAYVHY
 YMGCCYRSKVHMLNRREMFVSGDRKKLEELIQLAVNHLRKAEEIKEMLEYSCSFLADLYIIAKKYDEAD
 YYFQKELSKDLPPGPKQLLHLRYGNFQFFQMKRQDKAIYHYMEGVKIKKKTIPQKKMREKLQRIALRRHLH
 EDESSEALHILAFLENGGGQQADKDSERGVDSANQVPSASLDEAGA EY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

OTI Disclaimer:	<p>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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_008332.3, NP_032358.1</p>
RefSeq Size:	<p>3949 bp</p>
RefSeq ORF:	<p>1413 bp</p>
Locus ID:	<p>15958</p>
UniProt ID:	<p>Q64112</p>
Cytogenetics:	<p>19 C1</p>
Gene Summary:	<p>IFN-induced antiviral protein which inhibits expression of viral messenger RNAs lacking 2'-O-methylation of the 5' cap. The ribose 2'-O-methylation would provide a molecular signature to distinguish between self and non-self mRNAs by the host during viral infection. 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). Binds AU-rich viral RNAs, with or without 5' triphosphorylation, RNA-binding is required for antiviral activity. Can promote apoptosis.[UniProtKB/Swiss-Prot Function]</p>