

Product datasheet for MC205676

Ifit3 (NM_010501) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ifit3 (NM_010501) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ifit3
Synonyms:	Ifi49; P49
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC003804

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CCAGCTTTTCCCAGCAGCACAGAAACAGATCACCATCATGAGTGAGGTCAACCGGGAATCTCTGGAAGCG
ATCCTTCCACAGCTGAAGTGCCATTTACCTGGAATTTATTCAGGGAAGGAAGTATGTCCAGTCATATGG
AAGACAGGGTGTGCAACCAGGTGCAACATTTAAACTCTGAGGAGAAGGCAACAATGTATGACTTATTGGC
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GCAAACCTCATTACTAATCATGTAGGGAATGGAGCTTAAAGCAGACAGAGCACCTTTTGATCACATTTTT
TTTCTCTGCAATAAATGACAACCTCCAACAAAAA

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Restriction Sites:	RsrII-NotI
ACCN:	NM_010501
Insert Size:	1212 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:	<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:	BC003804 , AAH03804
RefSeq Size:	1724 bp
RefSeq ORF:	1212 bp
Locus ID:	15959
UniProt ID:	Q64345
Cytogenetics:	19 C1
Gene Summary:	IFN-induced antiviral protein which acts as an inhibitor of cellular as well as viral processes, cell migration, proliferation, signaling, and viral replication. Enhances MAVS-mediated host antiviral responses by serving as an adapter bridging TBK1 to MAVS which leads to the activation of TBK1 and phosphorylation of IRF3 and phosphorylated IRF3 translocates into nucleus to promote antiviral gene transcription. Exhibits an antiproliferative activity via the up-regulation of cell cycle negative regulators CDKN1A/p21 and CDKN1B/p27. Normally, CDKN1B/p27 turnover is regulated by COPS5, which binds CDKN1B/p27 in the nucleus and exports it to the cytoplasm for ubiquitin-dependent degradation. IFIT3 sequesters COPS5 in the cytoplasm, thereby increasing nuclear CDKN1B/p27 protein levels. Upregulates CDKN1A/p21 by downregulating MYC, a repressor of CDKN1A/p21. Can negatively regulate the apoptotic effects of IFIT2 (By similarity).[UniProtKB/Swiss-Prot Function]