

## Product datasheet for **MR223920**

### **Ifi35 (NM\_027320) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ifi35 (NM_027320) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ifi35
Synonyms:	2010008K16Rik; AW986054; ifi-35; IFP35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223920 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGC**

ATGTCTGTGACCCTGCAAACCTGCCTCTACAGTCTTCAGGAGGAGCAAGCCAGGCTCAAGATGAGGCTGC  
AGGAGCTGCAGCAGCTCAAAAGGGAGCGCACAGGCTCTCCGGAGCCAAGATCCCATTCTCAGTACCTGA  
AGTTCTCTGGTATTCCAAGGCCAACTAAGCAGGGCAGGCAAGTGCCCAAGTTTGTAGTTTCTAACTTG  
AAGGTCTGCTGCCCTCTGCCTGAAGTTCTGCTCTGGTCACCTTTGAGGACCCAAAGTGGTTGATCGGT  
TGCTACAACAAAAGGAACACAGAGTTAACTTAGAGGACTGCTGGCTGCGGGTGCAAGTCCAGCCCTTGA  
GCTGCCTGTGGTGACCAACATTCAGGTGTCCAGCCAGCCAGATAACCACAGGGTGCTCGTTAGTGGTTTT  
CCTGCTGGACTTAGGCTGAGTGAAGAGGAAGTGTGGACAAGCTGGAGATCTTCTTTGGCAAGGCCAAGA  
ATGGAGGTGGGGATGTAGAGACCCGGGAGATGCTGCAAGGGACCGTCATGCTAGGGTTTGTCTGATGAAGA  
AGTGGCCAGCACTTATGCCAGATTGGCCAGTTCAGAGTCCCACTGGACCGGCAGCAGGTCTCTGAGG  
GTCTCTCCCTATGTGAGTGGTGAGATCCAGAAAGCCGAGATCAAATTCAGCAAGCCCTCATTCACTGC  
TGGTGACAAATATTCCTGATGTCATGGATGCCAGGAAGTGCATGACATCCTTGAGATCCACTTCCAGAA  
GCCCACTCGTGGGGCGGGAGGTGGAGGCCCTGACAGTTGTGCCTTCAGGGCAGCAGGGCTGGCTATC  
TCACTTCCGAGTCAAGC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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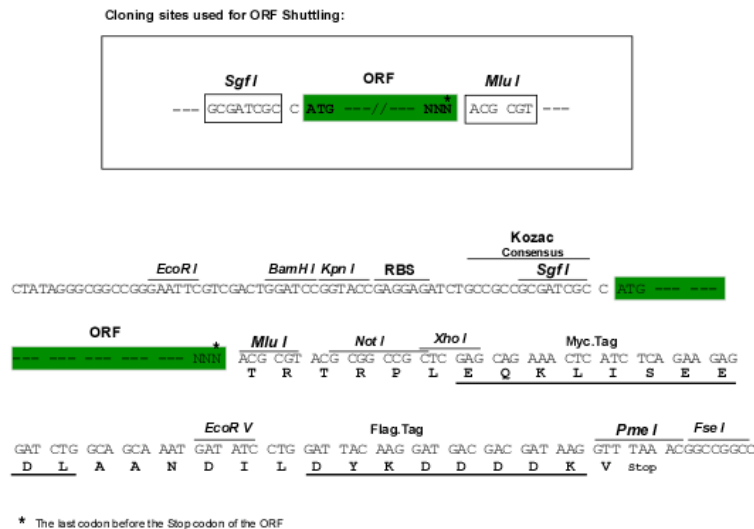
**Protein Sequence:** >MR223920 protein sequence  
 Red=Cloning site Green=Tags(s)

MSVTLQTVLYSLQEEQARLKMRLQELQQLKRRTGSPGAKIPFSVPEVPLVFQGQTKQGRQVPKFVVSNL  
 KVCCPLPEGSALVTFEDPKVVDRLQKQKHEVRNLEDCWLRVQVQPLELPVVTNIQVSSQPDNHRVLVSGF  
 PAGLRLSEEELDKLEIFFGKAKNGGDVETREMLQGTVMLGFADEEVAQHL CQIGQFRVPLDRQQVLLR  
 VSPYVSGEIQKAEIKFQQAPHSVLVTNIPDVMDAQELHDILEIHFQKPTRGGGEVEALTVVPSGQQGLAI  
 FTSESS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_027320

**ORF Size:** 858 bp

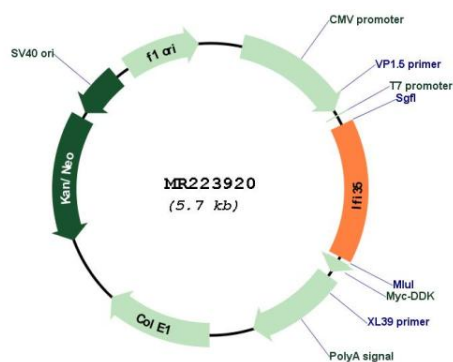
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_027320.1</a> , <a href="#">NM_027320.2</a> , <a href="#">NM_027320.3</a> , <a href="#">NM_027320.4</a> , <a href="#">NP_081596.1</a>
<b>RefSeq Size:</b>	1360 bp
<b>RefSeq ORF:</b>	861 bp
<b>Locus ID:</b>	70110
<b>UniProt ID:</b>	<a href="#">Q9D8C4</a>
<b>Cytogenetics:</b>	11 D
<b>MW:</b>	31.9 kDa
<b>Gene Summary:</b>	<p>Acts as a signaling pathway regulator involved in innate immune system response (PubMed:29350881). In response to interferon IFN-alpha, associates in a complex with transcriptional regulator NMI to regulate immune response; the complex formation prevents proteasome-mediated degradation of IFI35 and correlates with IFI35 dephosphorylation (By similarity). In complex with NMI, inhibits virus-triggered type I interferon/IFN-beta production (By similarity). In complex with NMI, negatively regulates nuclear factor NF-kappa-B signaling by inhibiting the nuclear translocation, activation and transcription of the NF-kappa-B subunit p65/RELA, resulting in the inhibition of endothelial cell proliferation, migration and re-endothelialization of injured arteries (PubMed:29350881). Beside its role as an intracellular signaling pathway regulator, also functions extracellularly as damage-associated molecular patterns (DAMPs) to promote inflammation when actively released by macrophage to the extracellular space during cell injury and pathogen invasion (By similarity). Macrophage-secreted IFI35 activates NF-kappa-B signaling in adjacent macrophages through Toll-like receptor 4/TLR4 activation, thereby inducing NF-kappa-B translocation from the cytoplasm into the nucleus which promotes the release of proinflammatory cytokines (By similarity). [UniProtKB/Swiss-Prot Function]</p>

## Product images:



Circular map for MR223920