

Product datasheet for MR223920L3

Ifi35 (NM_027320) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ifi35 (NM_027320) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Ifi35

Synonyms: 2010008K16Rik; AW986054; ifi-35; IFP35

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

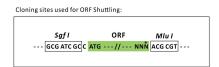
E. coli Selection: Chloramphenicol (34 ug/mL)

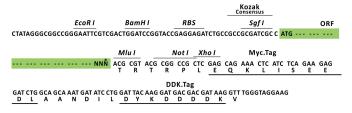
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR223920).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.



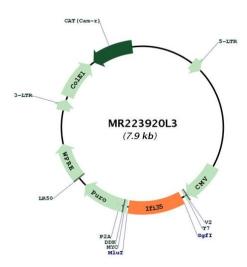
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Plasmid Map:



ACCN: NM_027320

ORF Size: 861 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).

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: <u>NM 027320.4, NP 081596.1</u>

RefSeq Size: 1360 bp RefSeq ORF: 861 bp



Ifi35 (NM_027320) Mouse Tagged Lenti ORF Clone - MR223920L3

 Locus ID:
 70110

 UniProt ID:
 Q9D8C4

 Cytogenetics:
 11 D

Gene Summary: 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 reendothelialization 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]