

Product datasheet for **MG224475**

IfnI2 (NM_001024673) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IfnI2 (NM_001024673) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: IfnI2
Synonyms: EG330496; IL-28A; IL28a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224475 representing NM_001024673
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCCTCTGCTGTTGCCTCTGCTGCTGGCCGAGTGCTGACAAGAACCCAAGCTGACCTGTCCCCA
GGGCCACAGGCTCCAGTGGAAGCAAAGGATTGCCACATTGCTCAGTTCAAGTCTGTGTCCCCAAAGA
GCTGCAGGCTTCAAAAAGGCCAAGGATGCCATCGAGAAGAGGCTGCTTGAGAAGGACCTGAGGTGCAGT
TCCCACCTTCCCCAGGGCCTGGGACCTGAAGCAGCTGCAGGTCCAAGAGCGCCCAAGGCTTGCAGG
CTGAGGTGGCCCTGACCCTGAAGGTCTGGGAGAACATGACTGACTCAGCCCTGGCCACCATCCTGGGCCA
GCCTTTCATACACTGAGCCACATTCACTCCCAGCTGCAGACCTGTACACAGCTTCAAGGCCACAGCAGAG
CCCAGGTCCCCGAGCCGCCCTCTCCCCTGGCTGCACAGGCTCCAGGAGGCCAAGGAGACCC
CTGGCTGCCTGGAGGCTCTGTACCTCCAACCTGTTTCGCTGCTCACCAGGACCTCAAGTGTGTGGC
CAATGGAGACAGTGTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224475 representing NM_001024673
Red=Cloning site Green=Tags(s)

MLLLLLPLLLAAVLTRTQADPVPRATRLPVEAKDCHIAQFKSLSPKELQAFKKAKDAIEKRLLEKDLRCS
SHLFPRAWDLKQLVQERPKALQAEVALTLKVWENMTDSALATILGQPLHTLSHIHSQLTCTQLQATAE
PRSPSRRLSRWLHRLQEAQSKETPGCLEASVTSNLFRLLTRDLKCVANGDQCV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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: [NM_001024673.2](#), [NP_001019844.2](#)

RefSeq Size: 582 bp

RefSeq ORF: 582 bp

Locus ID: 330496

UniProt ID: [Q4VK74](#)

Cytogenetics: 7

Gene Summary: Cytokine with antiviral, antitumour and immunomodulatory activities. Plays a critical role in the antiviral host defense, predominantly in the epithelial tissues. Acts as a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IFNLR1, and receptor engagement leads to the activation of the JAK/STAT signaling pathway resulting in the expression of IFN-stimulated genes (ISG), which mediate the antiviral state. Has a restricted receptor distribution and therefore restricted targets: is primarily active in epithelial cells and this cell type-selective action is because of the epithelial cell-specific expression of its receptor IFNLR1. Seems not to be essential for early virus-activated host defense in vaginal infection, but plays an important role in Toll-like receptor (TLR)-induced antiviral defense. Plays a significant role in the antiviral immune defense in the intestinal epithelium. Exerts an immunomodulatory effect by up-regulating MHC class I antigen expression.[UniProtKB/Swiss-Prot Function]