

## Product datasheet for **MG224475**

### **Ifnl2 (NM\_001024673) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ifnl2 (NM\_001024673) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ifnl2  
**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)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCCTCTGCTGTTGCCTCTGCTGCTGGCCGAGTGCTGACAAGAAGCCCAAGCTGACCTGTCCCA  
GGGCCACCAAGGCTCCAGTGGAAGCAAAGGATTGCCACATTGCTCAGTTCAAGTCTGTGCCCCAAAGA  
GCTGCAGGCCTTCAAAAAGGCCAAGGATGCCATCGAGAAGAGGCTGCTTGAGAAGGACCTGAGGTGCAGT  
TCCACCTCTTCCCAGGGCCTGGGACCTGAAGCAGCTGCAGGTCCAAGAGCGCCCAAGGCCTTGCAGG  
CTGAGGTGGCCCTGACCCTGAAGGTCTGGGAGAACATGACTGACTCAGCCCTGGCCACCATCCTGGGCA  
GCCTCTTCATACACTGAGCCACATTCACTCCCAGCTGCAGACCTGTACACAGCTTCAGGCCACAGCAGAG  
CCCAGGTCCCCGAGCCGCGCCTCTCCCCTGGCTGCACAGGCTCCAGGAGGCCAGAGCAAGGAGACCC  
CTGGCTGCCTGGAGGCCTCTGTACCTCCAACCTGTTTCGCTGCTCACCAGGACCTCAAGTGTGTGGC  
CAATGGAGACCACTGTGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG224475 representing NM\_001024673  
**Red**=Cloning site **Green**=Tags(s)

MLLLLLPLLLAAVLTRTQADPVPRATRLPVEAKDCHIAQFKSLSPKELQAFKKAKDAIEKRLLEKDLRCS  
SHLFPRAWDLKQLQVQERPKALQAEVALTLKVWENMTDSALATILGQPLHTLSHIHSQLTCTQLQATAE  
PRSPSRRLSRWLHRLQEAQSKETPGCLEASVTSNLFRLLTRDLKCVANGDQCV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001024673

**ORF Size:** 579 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001024673.2](#), [NP\\_001019844.2](#)

**RefSeq Size:** 582 bp

**RefSeq ORF:** 582 bp

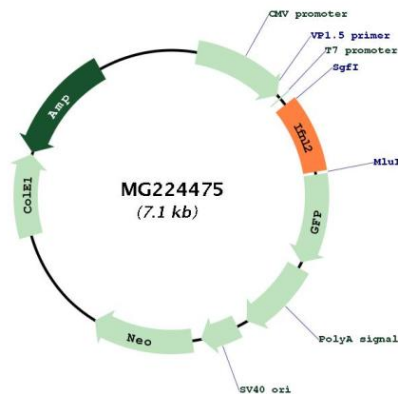
**Locus ID:** 330496

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]

## Product images:



Circular map for MG224475