

## Product datasheet for **RG218965**

### IL28B (IFNL3) (NM\_172139) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IL28B (IFNL3) (NM\_172139) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IL28B  
**Synonyms:** IFN-lambda-3; IFN-lambda-4; IL-28B; IL-28C; IL28B; IL28C  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG218965 representing NM\_172139  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCGGGACTGCATGCCAGTCTGGTCTGATGGCCGAGTCTGACCGTACTGGAGCAGTTCCTG  
 TCGCCAGGCTCCGCGGGCTCTCCCGATGCAAGGGCTGCCACATAGCCCAGTCAAGTCCCTGTCTCC  
 ACAGGAGCTGCAGGCCTTAAGAGGGCCAAAGATGCCTTAGAAGAGTCGTTCTGCTGAAGGACTGCAAG  
 TGCCGCTCCGCCTTCCCCAGGACCTGGGACCTGAGGCAGCTGCAGGTGAGGGAGCGCCCGTGGCTT  
 TGGAGGCTGAGCTGGCCCTGACGCTGAAGTTCTGGAGGCCACCGCTGACTGACCCAGCCCTGGGGGA  
 TGTCTTGACCAGCCCTTACACCCTGCACCATATCCTCTCCAGCTCCGGGCTGTATCCAGCCTCAG  
 CCCACGGCAGGGCCAGGACCCGGGGCCGCTCCACCATTGGCTGACCCGCTCCAGGAGCCCCAAAAA  
 AGGAGTCCCTGGCTGCCTCGAGGCCTCTGCACCTTCAACCTCTCCGCTCTCACGCGAGACCTGAA  
 TTGTGTTGCCAGCGGGGACCTGTGTGTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG218965 representing NM\_172139  
 Red=Cloning site Green=Tags(s)

MTGDCMPVLVMAAVLTVTGAVPVARLRGALPDARGCHIAQFKSLSPQELQAFKRAKDALEESLLLKDKC  
 CRSRLFPRTWDLRQLQVRERPVLEAELALTLKVEATADTDPALGDVLDQPLHLHHILSQLRACIQPQ  
 PTAGPRTRGRLHHWLHRLQEAPKKEPSPGCLASVTFNLFRLLTRDLNLCVASGDLCV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

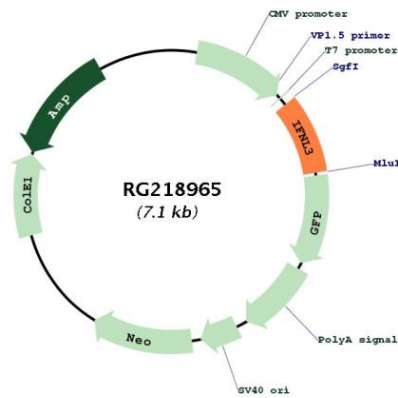

- ACCN:** NM\_172139
- ORF Size:** 588 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each 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:** [NM\\_172139.4](#)
- RefSeq Size:** 595 bp
- RefSeq ORF:** 591 bp
- Locus ID:** 282617
- UniProt ID:** [Q8IZI9](#)
- Cytogenetics:** 19q13.2

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

**Gene Summary:** This gene encodes a cytokine distantly related to type I interferons and the IL-10 family. This gene, interleukin 28A (IL28A), and interleukin 29 (IL29) are three closely related cytokine genes that form a cytokine gene cluster on a chromosomal region mapped to 19q13. Expression of the cytokines encoded by the three genes can be induced by viral infection. All three cytokines have been shown to interact with a heterodimeric class II cytokine receptor that consists of interleukin 10 receptor, beta (IL10RB) and interleukin 28 receptor, alpha (IL28RA). [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG218965