

## Product datasheet for **RG216947**

### IL13 (NM\_002188) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IL13 (NM\_002188) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IL13  
**Synonyms:** IL-13; P600  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG216947 representing NM\_002188  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCATCCGCTCCTCAATCCTCTCCTGTTGGCACTGGGCCTCATGGCGCTTTTGTGACCACGGTCATTG  
 CTCTCACTTGCCTTGGCGGCTTTGCCTCCCAGGCCCTGTGCCTCCCTCTACAGCCCTCAGGGAGCTCAT  
 TGAGGAGCTGGTCAACATCACCCAGAACCAGAAGGCTCCGCTCTGCAATGGCAGCATGGTATGGAGCATC  
 AACCTGACAGCTGGCATGTACTGTGAGCCCTGGAATCCCTGATCAACGTGTGAGGCTGCAGTGCATCG  
 AGAAGACCCAGAGGATGCTGAGCGGATTCTGCCCGACAAGGTCTCAGCTGGGCAGTTTTCCAGCTTGCA  
 TGTCGAGACACCAAAATCGAGGTGGCCAGTTTGTAAAGGACCTGCTCTACATTTAAAGAACTTTTT  
 CGCGAGGGACAGTTCAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG216947 representing NM\_002188  
 Red=Cloning site Green=Tags(s)

MHPLLNP LLLALGLMALLLTTVIALTCLGGFASPGVPPSTALRELIEELVNITQNQKAPLCNGSMWWSI  
 NLTAGMYCAALESINVSGCSAIEKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLLHLKFLF  
 REGQFN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_002188

**ORF Size:** 438 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\\_002188.3](#)

**RefSeq Size:** 1282 bp

**RefSeq ORF:** 441 bp

**Locus ID:** 3596

**UniProt ID:** [P35225](#)

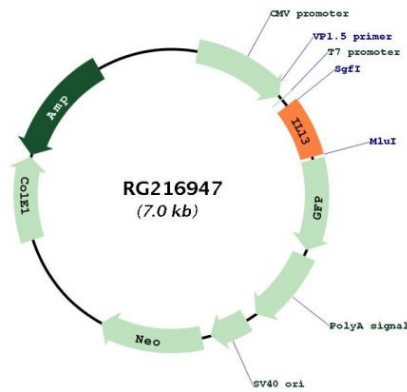
**Cytogenetics:** 5q31.1

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

**Protein Pathways:** Asthma, Cytokine-cytokine receptor interaction, Fc epsilon RI signaling pathway, Jak-STAT signaling pathway

**Gene Summary:** This gene encodes an immunoregulatory cytokine produced primarily by activated Th2 cells. This cytokine is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. This cytokine down-regulates macrophage activity, thereby inhibits the production of pro-inflammatory cytokines and chemokines. This cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. This gene, IL3, IL5, IL4, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL4. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG216947