

## Product datasheet for **RG209995**

### IL22 (NM\_020525) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IL22 (NM\_020525) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IL22  
**Synonyms:** IL-21; IL-22; IL-D110; IL-TIF; ILTIF; TIFa; TIFIL-23; zcyto18  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG209995 representing NM\_020525  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTCT  
 TGGCCCTCTTGGTACAGGGAGGAGCAGCTGCGCCATCAGCTCCCACTGCAGGCTTGACAAGTCCA  
 CCAGCAGCCCTATATACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGCTGATAACAACACA  
 GACGTTCTGCTCATTGGGAGAACTGTCCACGGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGC  
 AGGTGCTGAACCTCACCTTGAAGAAGTCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGA  
 GGTGGTGCCTTCTGGCCAGGCTCAGCAACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCAT  
 ATCCAGAGGAATGTGAAAAGCTGAAGGACACAGTGAAAAAGCTTGGAGAGAGTGAGAGATCAAAGCAA  
 TTGGAGAACTGGATTTGCTGTTTATGTCTCTGAGAAATGCCTGCATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG209995 representing NM\_020525  
 Red=Cloning site Green=Tags(s)

MAALQKSVSSFLMGLTATSCLLLLALLVQGGAAPISSHCRLDKSNFQPPYITNRTFMLAKEASLADNNT  
 DVRLIGEKLFHGVSMERCYLMKQVLFNFLEEVLFPQSDRFQPYMQEVVPLARLSNRLSTCHIEGDDLH  
 IQRNVQKLKDTVKKLGESGEIKAIGELDLLFMSLRNACI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_020525

**ORF Size:** 537 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

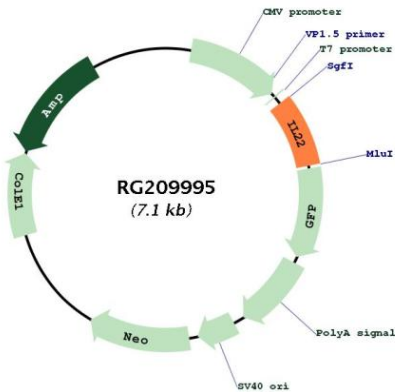
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_020525.5](#)  
**RefSeq Size:** 1147 bp  
**RefSeq ORF:** 540 bp  
**Locus ID:** 50616  
**UniProt ID:** [Q9GZX6](#)  
**Cytogenetics:** 12q15  
**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane  
**Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway  
**Gene Summary:** This gene is a member of the IL10 family of cytokines that mediate cellular inflammatory responses. The encoded protein functions in antimicrobial defense at mucosal surfaces and in tissue repair. This protein also has pro-inflammatory properties and plays a role in the pathogenesis of several intestinal diseases. [provided by RefSeq, Jul 2018]

### Product images:



Circular map for RG209995