

## Product datasheet for **RG232039**

### IL18 (NM\_001243211) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IL18 (NM\_001243211) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IL18  
**Synonyms:** IGIF; IL-1g; IL-18; IL1F4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG232039 representing NM\_001243211  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGCTGAACCAGTAGAAGACAATTGCATCAACTTTGTGGCAATGAAATTTATTGACAATACGCTTT  
 ACTTTATAGAAAACCTGGAATCAGATTACTTTGGCAAGCTTGAATCTAAATTATCAGTCATAAGAAATTT  
 GAATGACCAAGTTCTCTTCATTGACCAAGGAAATCGGCCTCTATTTGAAGATATGACTGATTCTGACTGT  
 AGAGATAATGCACCCCGACCATATTTATTATAAGTATGTATAAAGATAGCCAGCCTAGAGGTATGGCTG  
 TAACTATCTCTGTGAAGTGTGAGAAAATTTCAACTCTCTCTGTGAGAACAAAATTTTCCTTTAAGGA  
 AATGAATCCTCTGATAACATCAAGGATACAAAAGTGACATCATTTCTTTAGAGAAGTGTCCAGGA  
 CATGATAATAAGATGCAATTTGAATCTTCATCATACGAAGGATACCTTTAGCTTGTGAAAAAGAGAGAG  
 ACCTTTTTAAACTCATTTTGA AAAAAGAGGATGAATTGGGGGATAGATCTATAATGTTCACTGTTCAAAA  
 CGAAGAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG232039 representing NM\_001243211  
 Red=Cloning site Green=Tags(s)

MAAEPVEDNCINFVAMKFIDNTLYFIENLESDYFGKLESKLSVIRNLNDQVLFIDQGNRPLFEDMTDSDC  
 RDNAPRTIFIISMYKDSQPRGMAVTISVKCEKISTLSCENKIIISFKEMNPPDNIKDTSDIIFQRSVPG  
 HDNKMQFESSYEGYFLACEKERDLFKLILKKEDELGDRSIMFTVQNE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

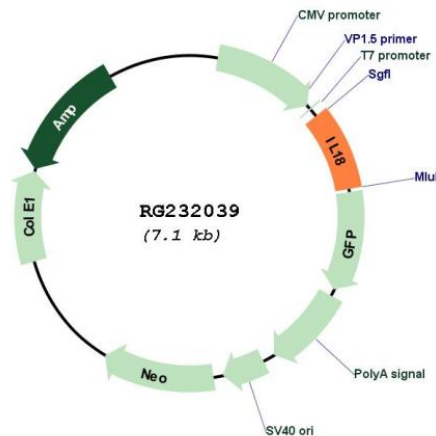


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001243211

ORF Size: 567 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\\_001243211.2](#)

**RefSeq Size:** 1151 bp

**RefSeq ORF:** 570 bp

**Locus ID:** 3606

**UniProt ID:** [Q14116](#)

**Cytogenetics:** 11q23.1

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

**Protein Pathways:** Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, NOD-like receptor signaling pathway

**Gene Summary:** The protein encoded by this gene is a proinflammatory cytokine of the IL-1 family that is constitutively found as a precursor within the cytoplasm of a variety of cells including macrophages and keratinocytes. The inactive IL-18 precursor is processed to its active form by caspase-1, and is capable of stimulating interferon gamma production, and of regulating both T helper (Th) 1 and Th2 responses. This cytokine has been implicated in the injury of different organs, and in potentially fatal conditions characterized by a cytokine storm. In humans, IL-18 gene is located on chromosome 11. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2020]