

## Product datasheet for **RG231862**

### IL21 (NM\_001207006) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IL21 (NM\_001207006) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IL21  
**Synonyms:** CVID11; IL-21; Za11  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231862 representing NM\_001207006  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGATCCAGTCCTGGCAACATGGAGAGGATTGTCATCTGTCTGATGGTCATCTTCTTGGGGACTGG  
TCCACAAATCAAGCTCCAAGGTCAAGATCGCCACATGATTAGAATGCGTCAACTATAGATATTGTTGA  
TCAGCTGAAAAATTATGTGAATGACTTGGTCCCTGAATTTCTGCCAGCTCCAGAAGATGTAGAGACAAAC  
TGTGAGTGGTCAGCTTTTCTGCTTTTCAGAAAGGCCAACTAAAGTCAGCAAATACAGGAAACAATGAAA  
GGATAATCAATGTATCAATTAAGCTGAAGAGGAAACCACCTCCACAAATGCAGGGAGAAGACAGAA  
ACACAGACTAACATGCCCTTCATGTGATTCTTATGAGAAAAACCACCAAGAATTCCTAGAAAGATTC  
AAATCACTTCTCCAAAAGGTATCTACCTTAAGTTTCATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231862 representing NM\_001207006  
Red=Cloning site Green=Tags(s)

MRSSPGNMERIVICLMVIFLGLTVHKSSSQQDRHMIRMRLIDIVDQLKNYVNDLVPEFLPAPEDVETN  
CEWSAFSCFQKAQLKSANTGNNERIINVSIIKLRKPPSTNAGRRQKHLTCPSCDSEYKPPKEFLERF  
KSLQKYSTLSFI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001207006.2, NP_001193935.1</u>
<b>RefSeq Size:</b>	707 bp
<b>RefSeq ORF:</b>	462 bp
<b>Locus ID:</b>	59067
<b>UniProt ID:</b>	<u>Q9HBE4</u>
<b>Cytogenetics:</b>	4q27
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
<b>Gene Summary:</b>	This gene encodes a member of the common-gamma chain family of cytokines with immunoregulatory activity. The encoded protein plays a role in both the innate and adaptive immune responses by inducing the differentiation, proliferation and activity of multiple target cells including macrophages, natural killer cells, B cells and cytotoxic T cells. Dysregulation of this gene plays a role in multiple immune-mediated diseases including lupus, psoriasis and chronic inflammatory diseases. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]