

## Product datasheet for **MC226016**

### **IL21 (NM\_001291041) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IL21 (NM\_001291041) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** IL21  
**Synonyms:** IL-21  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226016 representing NM\_001291041  
**Red=Cloning site Blue=ORF Orange=Stop codon**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATG**GAGAGGACCCTTGTCTGTCTGGTAGTCATCTTCTTGGGGACAGTGGCCATAAATCAAGCCCCAAG  
GGCCAGATCGCCTCCTGATTAGACTTCGTCACCTTATTGACATTGTTGAACAGCTGAAAACTATGAAAA  
TGACTTGGATCCTGAACCTCTATCAGCTCCACAAGATGTAAGGGGCACTGTGAGCATGCAGCTTTTGGC  
TGTTTTCAGAAGGCCAACTCAAGCCATCAAACCTGGAAACAATAAGACATTCATCATTGACCTCGTGG  
CCCAGCTCAGGAGGAGGCTGCCTGCCAGGAGGGGAGGAAAGAAACAGAAGCACATAGCTAAATGCCCTTC  
CTGTGATTCGATGAGAAAAGGACACCCAAAGAATTCCTAGAAAGACTAAAATGGCTCCTTCAAAGGTA  
TGCACCTTAAATGCATTTCTTCACTTCCATGTTGTGTCCGGGTACCTCCTGTGCCAGTGACTCA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001291041  
**Insert Size:** 489 bp  
**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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><a href="#">NM_001291041.1</a></u> , <u><a href="#">NP_001277970.1</a></u>
<b>RefSeq Size:</b>	3178 bp
<b>RefSeq ORF:</b>	489 bp
<b>Locus ID:</b>	60505
<b>Cytogenetics:</b>	3 B
<b>Gene Summary:</b>	<p>Cytokine with immunoregulatory activity. May promote the transition between innate and adaptive immunity. Induces the production of IgG(1) and IgG(3) in B-cells. May play a role in proliferation and maturation of natural killer (NK) cells in synergy with IL15. May regulate proliferation of mature B- and T-cells in response to activating stimuli. In synergy with IL15 and IL18 stimulates interferon gamma production in T-cells and NK cells (By similarity). During T-cell mediated immune response may inhibit dendritic cells (DC) activation and maturation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>