

## Product datasheet for **RN209729**

### **IL21 (NM\_001108943) Rat Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL21 (NM_001108943) Rat Untagged Clone
Tag:	Tag Free
Symbol:	IL21
Synonyms:	IL-21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN209729 representing NM_001108943

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGAGGACCCTTGTCTGTCTGATACTCATCTTCTTGGGGACCGTGGCCATAAATCAAGCCCCAAAGCCAGATCACCTTCTGATTAGACTTCGTACCTTATGGACATTGTTGAACAGCTGAAAACTATGAGAA  
 TGACTTGGATCCTGAACCTTCTAACAGCTCCACAAGATGTAAGGGGCAATGTGAGCACGAAGCTTTTGCC  
 TGTTTTAGAAAGCCAACTCAAGCCATCAAACTGGAACAATAAGACATTCATCAACGACTTGTGG  
 CACAGCTGAGGAGGAGGCTGCCTGCTAAGAGGACAGGAAATAAACAGAGGCACATGGCTAAATGCCCTTC  
 CTGTGATTTGTATGAGAAAAAACCCAAAGAATTCCTTGAAGACTAAAATGGCTCCTCAAAAGATG  
 ATTCATCAGCATCTTTCC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001108943
Insert Size:	441 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>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_001108943.2, NP_001102413.1</u>
<b>RefSeq Size:</b>	441 bp
<b>RefSeq ORF:</b>	441 bp
<b>Locus ID:</b>	365769
<b>UniProt ID:</b>	<u>A3QPB9</u>
<b>Cytogenetics:</b>	2q25
<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 (By similarity).[UniProtKB/Swiss-Prot Function]</p>