

## **Product datasheet for RC215235**

## IL21 (NM\_021803) Human Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

Product Name: IL21 (NM\_021803) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: IL21

Synonyms: CVID11; IL-21; Za11

Mammalian Cell Neo

Selection:

Neomycin

**Vector:** pCMV6-Entry (PS100001) **E. coli Selection:** Kanamycin (25 ug/mL)

ORF Nucleotide >RC215235 representing NM\_021803

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215235 representing NM\_021803

Red=Cloning site Green=Tags(s)

MRSSPGNMERIVICLMVIFLGTLVHKSSSQGQDRHMIRMRQLIDIVDQLKNYVNDLVPEFLPAPEDVETN CEWSAFSCFQKAQLKSANTGNNERIINVSIKKLKRKPPSTNAGRRQKHRLTCPSCDSYEKKPPKEFLERF

KSLLQKMIHQHLSSRTHGSEDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mg2783 b01.zip



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

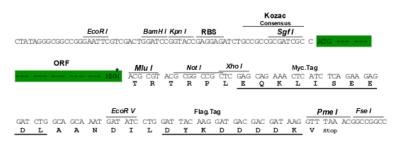
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**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_021803

ORF Size: 486 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 021803.4</u>

RefSeq Size: 642 bp RefSeq ORF: 489 bp



 Locus ID:
 59067

 UniProt ID:
 Q9HBE4

Cytogenetics: 4q27

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

**Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

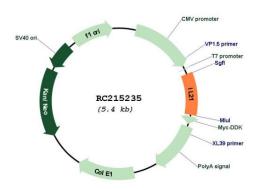
**MW:** 18.5 kDa

**Gene Summary:** 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

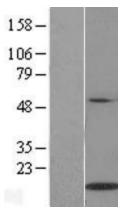
isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

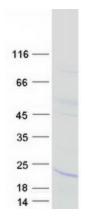
## **Product images:**



Circular map for RC215235







Western blot validation of overexpression lysate (Cat# [LY411922]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215235 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified IL21 protein (Cat# [TP315235]). The protein was produced from HEK293T cells transfected with IL21 cDNA clone (Cat# RC215235) using MegaTran 2.0 (Cat# [TT210002]).