

# Product datasheet for RC218057

### IL17 (IL17A) (NM\_002190) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	IL17 (IL17A) (NM_002190) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL17
Synonyms:	CTLA-8; CTLA8; IL-17; IL-17A; IL17; ILA17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC218057 representing NM_002190 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGACTCCTGGGAAGACCTCATTGGTATCACTGCTACTGCTGCTGAGCCTGGAGGCCATAGTGAAGGCAG GAATCACAATCCCACGAAATCCAGGATGCCCAAATTCTGAGGACAAGAACTTCCCCCGGACTGTGATGGT CAACCTGAACATCCATAACCGGAATACCAATACCAATCCCAAAAGGTCCTCAGATTACTACAACCGATCC ACCTCACCTTGGAATCTCCACCGCAATGAGGACCCTGAGAGATATCCCTCTGTGATCTGGGAGGCAAAGT GCCGCCACTTGGGCTGCATCAACGCTGATGGGAACGTGGACTACCACATGAACTCTGTCCCCATCCAGCA AGAGATCCTGGTCCTGCGCAGGGAGCCTCCACACTGCCCCAACTCCTTCCGGCTGGAGAAGATACTGGTG TCCGTGGGCTGCACCTGTGTCACCCCGATTGTCCACCATGTGGCC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>RC218057 representing NM_002190 <mark>Red</mark> =Cloning site Green=Tags(s)
	MTPGKTSLVSLLLLSLEAIVKAGITIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRS TSPWNLHRNEDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKILV SVGCTCVTPIVHHVA
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mg2564_b05.zip



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## **GRIGENE** IL17 (IL17A) (NM\_002190) Human Tagged ORF Clone – RC218057

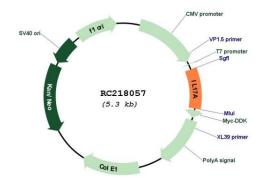
Image: Second	<ul> <li>Series of the substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u></li> <li>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</li> <li>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).</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>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> <li>Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.</li> <li>NM 002190</li> </ul>	Cloning scheme.       Image: Ima	Restriction Sites:	Sgfl-Mlul
Local       Dentil Kpri       RES         CTATABOGGGGGGGGANTTCOTCOLCTIONATION CARAGAGUET CONCOLUENT         ORF       Milui       Net Sond Concerts         P	<b>before the substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info 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). 1. Centrifuge at 5,000xg for 5min. 2. Core the subspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. Parameter the stable of the store of the stor</b>	bit       bit<	Cloning Scheme:	Sgfi ORF Miul
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ACCN: NM_002190 AF Size: 465 bp DTI Disclaimer: The molecular sequence of this clone align reference only. However, individual transci- naturally occurring variations (e.g. polymol clone is substantially in agreement with the variants is recommended prior to use. Mon DTI Annotation: This clone was engineered to express the of varies depending on the nature of the gen Tomponents: The ORF clone is ion-exchange column pur containing 10ug of transfection-ready, drie teconstitution Method: 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of 3. Close the tube and incubate for 10 minu 4. Briefly vortex the tube and then do a qu at the bottom. 5. Store the suspended plasmid at -20°C. The shipping when stored at -20°C. Note: Plasmids are not sterile. For experiments of 0.22um filter is required. MM 002190.3	<ul> <li>NM_002190</li> <li>465 bp</li> <li>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. <u>More info</u></li> <li>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</li> <li>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).</li> <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> <li>Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.</li> <li><u>NM 002190.3</u></li> <li>1859 bp</li> </ul>	ACCN:NM_002190DRF Size:465 bpDTI 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 infoDTI Annotation:This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.DTI Annotation: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).Accorticular sequence of the sube and dthen do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.Source:Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.NM 002190.3MM 002190.3RefSeq:NM 002190.3		GAT CTG GCA GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGGC
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e <b>fSeq Size:</b> 1859 bp			efSeq:	<u>NM 002190.3</u>
	468 bp	efSeq ORF: 468 bp	efSeq Size:	1859 bp
efSeq ORF: 468 bp			efSeq ORF:	468 bp

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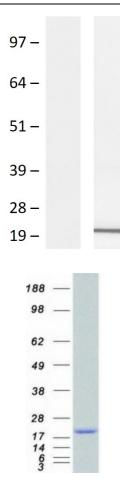
Locus ID:	3605
UniProt ID:	<u>Q16552</u>
Cytogenetics:	6p12.2
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction
MW:	17.5 kDa
Gene Summary:	This gene is a member of the IL-17 receptor family which includes five members (IL-17RA-E) and the encoded protein is a proinflammatory cytokine produced by activated T cells. IL-17A-mediated downstream pathways induce the production of inflammatory molecules, chemokines, antimicrobial peptides, and remodeling proteins. The encoded protein elicits crucial impacts on host defense, cell trafficking, immune modulation, and tissue repair, with a key role in the induction of innate immune defenses. This cytokine stimulates non-hematopoietic cells and promotes chemokine production thereby attracting myeloid cells to inflammatory sites. This cytokine also regulates the activities of NF-kappaB and mitogen-activated protein kinases and can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). IL-17A plays a pivotal role in various infectious diseases, inflammatory and autoimmune disorders, and cancer. High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. The lung damage induced by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is to a large extent, a result of the inflammatory response promoted by cytokines such as IL17A. [provided by RefSeq, Sep 2020]

## **Product images:**



Circular map for RC218057

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Western blot validation of overexpression lysate (Cat# [LY400795]) using anti-DDK antibody (Cat# [TA592569]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218057 using transfection reagent PEI.

Coomassie blue staining of purified IL17A protein (Cat# [TP318057]). The protein was produced from HEK293T cells transfected with IL17A cDNA clone (Cat# RC218057) using MegaTran 2.0 (Cat# [TT210002]).

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