

Product datasheet for **RC218057**

IL17 (IL17A) (NM_002190) Human Tagged ORF Clone

Product data:

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: >RC218057 representing NM_002190
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCTGGGAAGACCTCATTGGTATCACTGCTACTGCTGCTGAGCCTGGAGGCCATAGTGAAGGCAG
GAATCACAAATCCCACGAAATCCAGGATGCCAAATTCGAGGACAAGAAGTCCCGGACTGTGATGGT
CAACCTGAACATCCATAACCGGAATACCAATACCAATCCAAAAGGTCTCAGATTACTACAACCGATCC
ACCTCACCTTGGAAATCTCACCGCAATGAGGACCCTGAGAGATATCCCTCTGTGATCTGGGAGGCAAAGT
GCCGCCACTTGGGCTGCATCAACGCTGATGGGAACGTGGACTACCACATGAACTCTGTCCCATCCAGCA
AGAGATCCTGGTCTGCGCAGGGAGCCTCCACACTGCCCAACTCCTCCGGCTGGAGAAGATACTGGTG
TCCGTGGGCTGCACCTGTGTACCCCGATTGTCCACCATGTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218057 representing NM_002190
Red=Cloning site Green=Tags(s)
MTPGKTSLVSLLLLLSLEAIVKAGITIPRNPGPCNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYNNRS
TSPWNLHRNEDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHPCNSFRLEKILV
SVGCTCVTPIVHHVA

TRTRPLEQK**L**ISEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mg2564_b05.zip

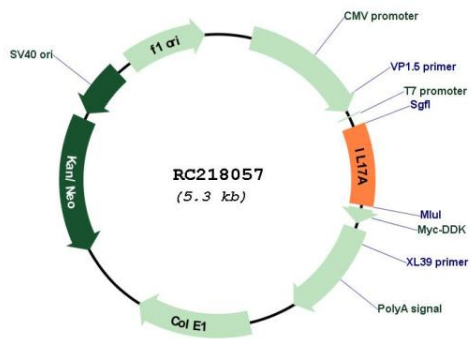


[View online >](#)

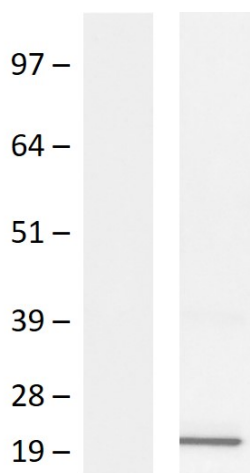
Locus ID: 3605
UniProt ID: [Q16552](#)
Cytogenetics: 6p12.2
Protein Families: Druggable Genome, Secreted Protein
Protein Pathways: Cytokine-cytokine receptor interaction
MW: 17.5 kDa

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]

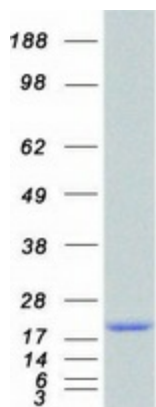
Product images:



Circular map for RC218057



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]).