

## Product datasheet for RC209682

### IL9 (NM\_000590) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IL9 (NM\_000590) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** IL9  
**Synonyms:** HP40; IL-9; P40  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC209682 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTTCTGGCCATGGTCCTTACCTCTGCCCTGCTCCTGTGCTCCGTGGCAGGCCAGGGGTGCCAACCT  
TGGCGGGGATCCTGGACATCAACTTCTCATCAACAAGATGCAGGAAGATCCAGCTTCCAAGTGCCACTG  
CAGTGCTAATGTGACCAGTTGTCTCTGTTGGGCATTCCCTCTGACAACCTGCACCAGACCATGCTTCAGT  
GAGAGACTGTCTCAGATGACCAATACCACCATGCAACAAGATACCCACTGATTTTCAGTCGGGTGAAAA  
AATCAGTTGAAGTACTAAAGAACAACAAGTGTCCATATTTTTCTGTGAACAGCCATGCAACCAACCCAC  
GGCAGGCAACGCCTGACATTTCTGAAGAGTCTTCTGGAAATTTCCAGAAAGAAAAGATGAGAGGGATG  
AGAGGCAAGATA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209682 protein sequence  
Red=Cloning site Green=Tags(s)

MLLAMVLTSAALLCSVAGQGCPTLAGILDINFLINKMQEDPASKCHCSANVTSLCLGIPSDNCTRPCFS  
ERLSQMTNTTMQTRYPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTFCLKSLLEIFQKEKMRGM  
RGKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6364\\_a03.zip](https://cdn.origene.com/chromatograms/mk6364_a03.zip)

**Restriction Sites:** SgfI-MluI

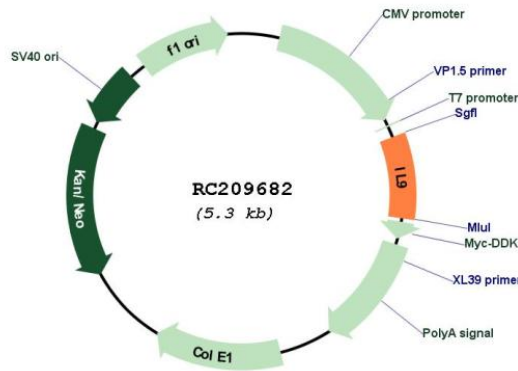


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_000590

ORF Size: 432 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.

RefSeq: [NM\\_000590.2](#)

RefSeq Size: 591 bp

RefSeq ORF: 435 bp

Locus ID: 3578

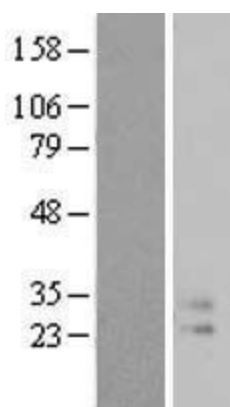
Protein Families: Druggable Genome, Secreted Protein

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

MW: 15.9 kDa

**Gene Summary:** The protein encoded by this gene is a cytokine that acts as a regulator of a variety of hematopoietic cells. This cytokine stimulates cell proliferation and prevents apoptosis. It functions through the interleukin 9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes. The gene encoding this cytokine has been identified as a candidate gene for asthma. Genetic studies on a mouse model of asthma demonstrated that this cytokine is a determining factor in the pathogenesis of bronchial hyperresponsiveness. [provided by RefSeq, Jul 2008]

### Product images:



Western blot validation of overexpression lysate (Cat# [LY424623]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209682 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).