

Product datasheet for **RG209682**

IL9 (NM_000590) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL9 (NM_000590) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IL9
Synonyms: HP40; IL-9; P40
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209682 representing NM_000590
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTTCTGGCCATGGTCCTTACCTCTGCCCTGCTCCTGTGCTCCGTGGCAGGCCAGGGGTGTCCAACCT
 TGGCGGGATCCTGGACATCAACTTCTCATCAACAAGATGCAGGAAGATCCAGCTTCCAAGTGCCACTG
 CAGTGCTAATGTGACCAGTTGTCTCTGTTGGCATTCCCTCTGACAACGCACCAGACCATGCTTCAGT
 GAGAGACTGTCTCAGATGACCAATACCACCATGCAAACAAGATACCCACTGATTTTCAGTCGGGTGAAAA
 AATCAGTTGAAGTACTAAAGAACAACAAGTGTCCATATTTTTCTGTGAACAGCCATGCAACCAAACCAC
 GGCAGGCAACGCGCTGACATTTCTGAAGAGTCTTCTGAAAATTTCCAGAAAGAAAAGATGAGAGGGATG
 AGAGGCAAGATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209682 representing NM_000590
 Red=Cloning site Green=Tags(s)

MLLAMVLTSAALLCSVAGQGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCLCLGIPSDNCTRPCFS
 ERLSQMNTTMTQTRYPLIFSRVKKSVEVLKNNKCPYFSCQPCNQTTAGNALTFLKSLLEIFQKEKMRGM
 RGKI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


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.

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.

RefSeq: [NM_000590.2](#)

RefSeq Size: 591 bp

RefSeq ORF: 435 bp

Locus ID: 3578

UniProt ID: [P15248](#)

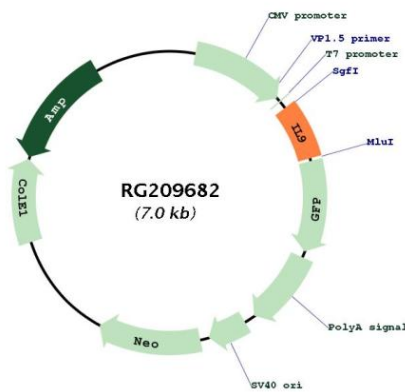
Cytogenetics: 5q31.1

Protein Families: Druggable Genome, Secreted Protein

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

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:



Circular map for RG209682