

Product datasheet for **RG209681**

IL5 (NM_000879) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL5 (NM_000879) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IL5
Synonyms: EDF; IL-5; TRF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209681 representing NM_000879
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGATGCTTCTGCATTTGAGTTTGCTAGCTCTTGAGCTGCCTACGTGTATGCCATCCCCACAGAAA
TTCCACAAGTGCATTGGTGAAGAGACCTTGGCACTGCTTTCTACTCATCGAACTCTGCTGATAGCCAA
TGAGACTCTGAGGATTCTGTTCTGTACATAAAAATCACCAACTGTGCACTGAAGAAATCTTTCAGGGA
ATAGGCACACTGGAGAGTCAAAGTGTGCAAGGGGGTACTGTGGAAGACTATTCAAAAATCTGCTCTTAA
TAAAGAAATACATTGACGGCCAAAAAAAAGTGTGGAGAAGAAAGACGGAGAGTAAACCAATTCCTAGA
CTACCTGCAAGAGTTTCTTGGTGAATGAACACCGAGTGGATAATAGAAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209681 representing NM_000879
Red=Cloning site Green=Tags(s)
MRMLLHLSLLALGAAYVYAIPTSEIPTSALVKETLALLSTHRTLLIANETLRIPVPVHKNHQLCTEEIFQG
IGTLESQTVQGGTVERLTKNLSLIKIDGQKKKCGEERRVNVQFLDYLQEFGLGVMNTEWIES

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_000879

ORF Size: 402 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_000879.3](#)

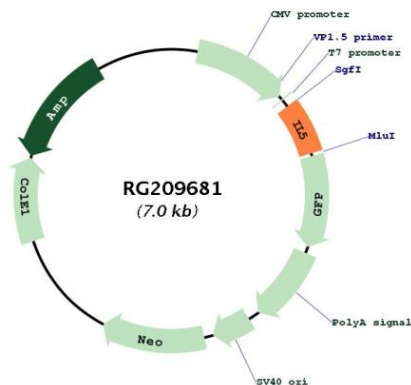
RefSeq Size: 816 bp

RefSeq ORF: 405 bp

Locus ID: 3567
UniProt ID: [P05113](#)
Cytogenetics: 5q31.1
Protein Families: Druggable Genome, Secreted Protein
Protein Pathways: Allograft rejection, Asthma, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Fc epsilon RI signaling pathway, Hematopoietic cell lineage, Jak-STAT signaling pathway, T cell receptor signaling pathway

Gene Summary: This gene encodes a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. The encoded cytokine plays a major role in the regulation of eosinophil formation, maturation, recruitment and survival. The increased production of this cytokine may be related to pathogenesis of eosinophil-dependent inflammatory diseases. This cytokine functions by binding to its receptor, which is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene is located on chromosome 5 within a cytokine gene cluster which includes interleukin 4 (IL4), interleukin 13 (IL13), and CSF2 . This gene, IL4, and IL13 may be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG209681