

Product datasheet for **RG209337**

IL27 (NM_145659) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL27 (NM_145659) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IL27
Synonyms: IL-27; IL-27A; IL27A; IL27p28; IL30; p28
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209337 representing NM_145659
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCCAGACGGCAGGCGACCTTGCTGGCGGCTCAGCCTGTTGCTGCTCCCTTGCTCCTGGTTCAAG
 CTGGTGTCTGGGGATTCCCAAGGCCCCAGGGAGGCCCCAGCTGAGCCTGCAGGAGCTGCGGAGGGAGTT
 CACAGTCAGCCTGCATCTCGCCAGGAAGCTGCTCGCCGAGGTTTCGGGGCCAGGCCACCGCTTTGCGGAA
 TCTCACCTGCCAGGAGTGAACCTGTACCTCCTGCCCTGGGAGAGCAGCTCCCTGATGTTCCCTGACCT
 TCCAGGCCTGGCGCCGCTCTCTGACCCGGAGCGTCTCTGCTTTCATCTCCACCACGCTTCAGCCCTCCA
 TGCCCTGCTGGGAGGGCTGGGGACCCAGGGCCGCTGGACCAACATGGAGAGGATGCAGCTGTGGGCCATG
 AGGCTGGACCTCCGCGATCTGCAGCGGCACCTCCGCTTCCAGGTGCTGGCTGCAGGATTAACCTCCCGG
 AGGAGGAGGAGGAGGAAGAGGAGGAGGAGGAGGAGGAGGAGGAAGGGGCTGCTCCAGGGGCACTGGGCAG
 CGCCTTACAGGGCCCGCCAGGTGTCTGGCCCCAGCTCCTCTCCACCTACCGCTGCTGCACTCCTTG
 GAGCTCGTCTTATCTCGGGCCGTGCGGGAGTTGCTGCTGCTGTCCAAGGCTGGGCACTCAGTCTGGCCCT
 TGGGGTCCCAACATTGAGCCCCAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209337 representing NM_145659
 Red=Cloning site Green=Tags(s)

MGQTAGDLGWRLSLLLLPLLLVQAGVWGFP RPPGRPQLSLQELRREFTVSLHLARKLLAEVRGQAHRF AE
 SHLPGVNL YLLPLGEQLPDVSLTFQAWRRLSDPERLCFISTTLQPFHALLGGLGTQGRWTNMERMQLWAM
 RLDLRLD LQRHLRFQVLAAGFNLPEEEEEEEEEEEERKGLLPGALGSALQGPAQVSWPQLLSTYRLLHSL
 ELVLSRAVRELLLLSKAGHSVWPLGFPTLSPQP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145659

ORF Size: 729 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_145659.3](#), [NP_663634.2](#)

RefSeq Size: 1044 bp

RefSeq ORF: 732 bp

Locus ID: 246778

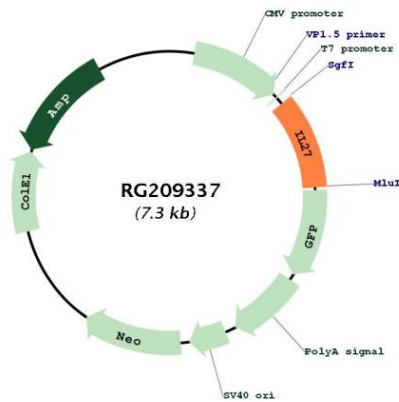
UniProt ID: [Q8NEV9](#)

Cytogenetics: 16p12.1-p11.2

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene is one of the subunits of a heterodimeric cytokine complex. This protein is related to interleukin 12A (IL12A). It interacts with Epstein-Barr virus induced gene 3 (EBI3), a protein similar to interleukin 12B (IL12B), and forms a complex that has been shown to drive rapid expansion of naive but not memory CD4(+) T cells. The complex is also found to synergize strongly with interleukin 12 to trigger interferon gamma (IFNG) production of naive CD4(+) T cells. The biological effects of this cytokine are mediated by the class I cytokine receptor (WSX1/TCRR). [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209337