

Product datasheet for RG210109

IL3 (NM_000588) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: IL3 (NM_000588) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: IL3

Synonyms: IL-3; MCGF; MULTI-CSF

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG210109 representing NM_000588

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAGCCGCCTGCCCGTCCTGCTCCAACTCCTGGTCCGCCCCGGACTCCAAGCTCCCATGACCC
AGACAACGCCCTTGAAGACAAGCTGGGTTAACTGCTCTAACATGATCGATGAAATTATAACACACTTAAA
GCAGCCACCTTTGCCTTTGCTGGACTTCAACAACCTCAATGGGGAAGACCAAGACATTCTGATGGAAAAT
AACCTTCGAAGGCCAAACCTGGAGGCATTCAACAGGGCTGTCAAGAGTTTACAGAACGCATCAGCAATTG
AGAGCATTCTTAAAAAATCTCCTGCCATGTCTGCCCCTGGCCACGCCGCCCCCCCGCGACATCCAATCCA
TATCAAGGACGGTGACTGGAATGAATTCCGGAGGAAACTGACGTTCTATCTGAAAAACCCTTGAGAATGCG

CAGGCTCAACAGACGACTTTGAGCCTCGCGATCTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210109 representing NM_000588

Red=Cloning site Green=Tags(s)

MSRLPVLLLLQLLVRPGLQAPMTQTTPLKTSWVNCSNMIDEIITHLKQPPLPLLDFNNLNGEDQDILMEN NLRRPNLEAFNRAVKSLQNASAIESILKNLLPCLPLATAAPTRHPIHIKDGDWNEFRRKLTFYLKTLENA

QAQQTTLSLAIF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

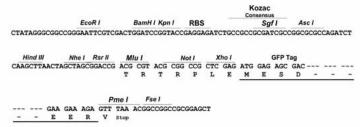
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Cloning Scheme:





ACCN: NM_000588

ORF Size: 456 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by

calling 301.340.3188 option 3 for pricing and delivery.

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: <u>NM 000588.4</u>

RefSeq Size: 924 bp RefSeq ORF: 459 bp

 Locus ID:
 3562

 UniProt ID:
 P08700

 Cytogenetics:
 5q31.1

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Apoptosis, Asthma, Cytokine-cytokine receptor interaction, Fc epsilon RI signaling pathway,

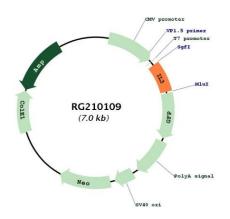
Hematopoietic cell lineage, Jak-STAT signaling pathway

Gene Summary: The protein encoded by this gene is a potent growth promoting cytokine. This cytokine is

capable of supporting the proliferation of a broad range of hematopoietic cell types. It is involved in a variety of cell activities such as cell growth, differentiation and apoptosis. This cytokine has been shown to also possess neurotrophic activity, and it may be associated with

neurologic disorders. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210109