

Product datasheet for **RG202084**

IL1 alpha (IL1A) (NM_000575) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL1 alpha (IL1A) (NM_000575) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL1 alpha
Synonyms:	IL-1 alpha; IL-1A; IL1; IL1-ALPHA; IL1F1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202084 representing NM_000575 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAAGTTCAGACATGTTTGAAGACCTGAAGAAGCTGTACAGTGAAAATGAAGAAGACAGTTCTC
CCATTGATCATCTGTCTCTGAATCAGAAATCCTTCTATCATGTAAGCTATGGCCCACTCCATGAAGGCTG
CATGGATCAATCTGTGTCTCTGAGTATCTCTGAAACCTCTAAAACATCCAAGCTTACCTTCAAGGAGAGC
ATGGTGGTAGTAGCAACCAACGGGAAGGTTCTGAAGAAGAGACGGTTGAGTTTAAGCCAATCCATCACTG
ATGATGACCTGGAGGCCATCGCCAATGACTCAGAGGAAGAAATCATCAAGCCTAGGTCAGCACCTTTTAG
CTTCTGAGCAATGTGAAATACAACCTTTATGAGGATCATCAAATACGAATTCATCCTGAATGACGCCCTC
AATCAAAGTATAATTCGAGCCAATGATCAGTACCTCACGGCTGCTGCATTACATAATCTGGATGAAGCAG
TGAAATTTGACATGGGTGCTTATAAGTCATCAAAGGATGATGCTAAAATTACCGTGATTCTAAGAATCTC
AAAAACTCAATTGTATGTGACTGCCAAGATGAAGACCAACCAGTGCTGCTGAAGGAGATGCCTGAGATA
CCCAAACCATCACAGGTAGTGAGACCAACCTCCTCTTCTTCTGGGAAACTCACGGCACTAAGAATATT
TCACATCAGTTGCCATCCAACTTGTTTATTGCCACAAAGCAAGACTACTGGGTGTGCTTGGCAGGGGG
GCCACCCTCTACTGACTTTTCAGATACTGAAAACCAAGCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202084 representing NM_000575
 Red=Cloning site Green=Tags(s)

MAKVPDMFEDLKNCYSENEEDSSSIDHLSLNQKSFYHVSYGPLHEGCMQSVLSISETSKLTFKES
 MVVVATNGKVLKKRRLSLSQSITDDDLLEAIANDSEEEIIKPRSAPFSFLSNVKYNFMRIIKYEFILNDAL
 NQSIIRANDQYL TAAALHNLDEAVKFDMGAYKSSKDDAKITVILRISKTQLYVTAQDEDQPVLLKEMPEI
 PKTITGSETNLLFFWETHGTKNYFTSVAHPNLF IATKQDYWVCLAGGPPSITDFQILENQA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000575

ORF Size: 813 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_000575.5](#)

RefSeq Size: 2943 bp

RefSeq ORF: 816 bp

Locus ID: 3552

UniProt ID: [P01583](#)

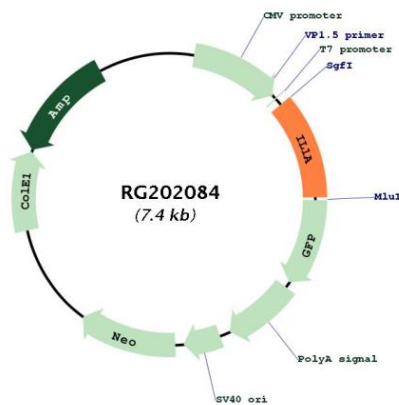
Cytogenetics: 2q14.1

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Apoptosis, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Hematopoietic cell lineage, MAPK signaling pathway, Prion diseases, Type I diabetes mellitus

Gene Summary: The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202084