

## Product datasheet for **RG220031**

### IL16 (NM\_004513) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL16 (NM_004513) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL16
Synonyms:	LCF; NIL16; prIL-16; PRIL16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG220031 representing NM\_004513  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACTATAGCTTTGATACCACAGCCGAAGACCCTTGGTTAGGATTTCTGACTGCATCAAAAACCTTAT  
 TTAGCCCATCATGAGTGAGAACCATGGCCACATGCCTCTACAGCCCAATGCCAGCCTGAATGAAGAAGA  
 AGGGACACAGGGCCACCCAGATGGGACCCACCAAGCTGGACACCGCCAATGGCACTCCCAAAGTTTAC  
 AAGTCAGCAGACAGCAGCACTGTGAAGAAAGTCTCCTGTGGCTCCCAAGCCAGCCTGGTTTCGCCAAA  
 GCTTGAAGGTTTGAGGAATCGTGCTTCAGACCAAGAGGGCTCCTGATCCTGCCTTGTCCACCCAGCC  
 AGCACCTGCTCCAGGGAGCACCTAGGATCACACATCCGGGCCTCCTCCTCCTCCTCCATCAGGCAG  
 AGAATCAGCTCCTTTGAAACCTTTGGCTCCTCTCAACTGCCTGACAAAGGAGCCAGAGACTGAGCCTCC  
 AGCCCTCCTCTGGGGAGGCAGAAAACCTTTGGGAAGCATGAGGAAGGACGGTTTTCTGGACTCTTGGG  
 GCGAGGGGCTGCACCCACTCTTGTGCCAGCAGCCTGAGCAAGTACTGTCTCGGGTCCCTGCAGCC  
 TCCGAGGCCAGAGACCCAGGTGTGTCTGAGTCCCTCCCCAGGGCGGCAGCCCAATCAGAAAACCTCC  
 CCCCTGGCCCGGACCCGCTCCTAAGGCTGCTGTCAACACAGGCTGAGGAATCTCAAGGCCAGTGCTCAA  
 GATGCCTAGCCAGCAGCACGGAGCTTCCCCCTGACCAGGTCCTCCTGTGAGACGAAGCTACTTGAC  
 GAAAAGACCAGCAAACCTATTCTATCAGCAGCCAAGTGTATCGGCTGTGATGAAATCCTTGCTGTGCC  
 TTCCATCTTCTATCTCCTGTGCCAGACTCCCTGCATCCCCAAGGAAGGGGCATCTCAACATCATCATC  
 CAACGAAGACTCAGCTGCAAATGGTTCTGCTGAAACATCTGCCTTGGACACAGGGTTCTCGCTCAACCT  
 TCAGAGCTGAGAGAATATACAGAGGGTCTCACGGAAGCCAAGGAAGACGATGATGGGACCACAGTTCCC  
 TTCAGTCTGGTCAGTCCGTTATCTCCCTGCTGAGCTCAGAAGAATTAATAAACTCATCGAGGAGTGAA  
 GGTTCTGATGAAGCAACATTAAGCAATTAGACGGCATCCATGTCAACATCTTACACAAGGAGGAAGGT  
 GCTGGTCTTGGTTCAGCTTGGCAGGAGGAGCAGATCTAGAAAACAAGGTGATTACGGTTCACAGAGTGT  
 TTCAAATGGGCTGGCCTCCAGGAAGGGACTATTAGAAGGGCAATGAGGTTCTTTCCATCAACGGCAA  
 GTCTCTCAAGGGGACCACGCACCATGATGCCTTGGCCATCCTCCGCCAAGCTCGAGAGCCAGGCAAGCT  
 GTGATTGTACAAGGAAGCTGACTCCAGAGGCCATGCCCGACCTCAACTCCTCCACTGACTCTGCAGCCT  
 CAGCCTCTGCAGCCAGTGTGTTCTGTAGAATCTACAGCAGAGGCCACAGTCTGCACGGTGACTGGA  
 GAAGATGTGGCAGGGCTGGGCTTCAAGGAGCAGCCTCAGAACAAGTGAAGACAGTCCAGCCTGGAGATGAAATCT  
 ACCATTAACAGGATTTTCAAAGGAGCAGCCTCAGAACAAGTGAAGACAGTCCAGCCTGGAGATGAAATCT  
 TGCAGCTGGGTGGCACTGCCATGCAGGGCTCACACGGTTTGAAGCCTGGAACATCATCAAGGCAGTCC  
 TGATGGACCTGTACGATTGTCATCAGGAGAAAAGCCTCCAGTCCAAGGAAACCACAGCTGCTGGAGAC  
 TCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG220031 representing NM\_004513  
 Red=Cloning site Green=Tags(s)

MDYSFDTTAEDPWVRIKSDCIKPLFSPIMSENHGHMPLQPNASLNEEEGTQGHDPGTPPKLDTANGTPKVY  
 KSADSSTVKKGPPVAPKPAWFRQSLKGLRNRSADPRGLPDPALSTQPAPASREHLGSHIRASSSSSSIRQ  
 RISSFETFGSSQLPDKGAQRLSLQPSSGEAAKPLGKHEEGRFSGLLGRGAAPTLVPQQPEQVLSGSPAA  
 SEARDPGVSESPPPGRQPNQKTLPPGPDPLRLLLSTQAEESQGPVLMKPSQRARSFPLTRSQCETKLLD  
 EKTSKLYSISQVSSAVMKSLCLPSSISCAQTPCIPKEGASPTSSSNEDSAANGSAETSALDTGFSLNL  
 SELREYTEGLTEAKEDDDGDHSSLQSGQSVISLLSSEELKKLIEEVKVLDEATLQKLDGIHVTILHKEEG  
 AGLGFSLAGGADLENKVIIVHRVFPNGLASQEGTIQKNEVLSINGKSLKGTTHHDALAILRQAREPRQA  
 VIVTRKLTPEAMPDLNSSTDSAASASAASDVSVESTAEATVCTVTLEKMSAGLGFLEGGKGLHGDKPL  
 TINRIFKGAASEQSETVQPGDEILQLGGTAMQGLTRFEAWNIKALPDGPVTIVIRKSLQSKETTAAGD  
 S

**TRTRPLE** - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_004513

ORF Size: 1893 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\\_004513.5](#)

RefSeq Size: 6193 bp

RefSeq ORF: 1896 bp

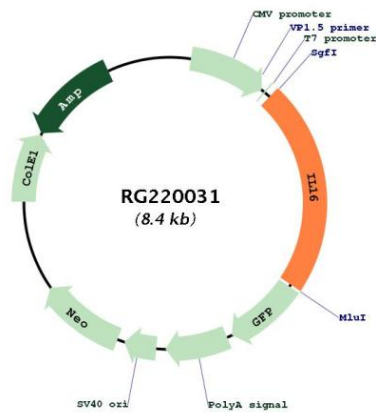
Locus ID: 3603

UniProt ID: [Q14005](#)

**Cytogenetics:** 15q25.1  
**Domains:** PDZ  
**Protein Families:** Druggable Genome, Secreted Protein  
**Gene Summary:**

The protein encoded by this gene is a pleiotropic cytokine that functions as a chemoattractant, a modulator of T cell activation, and an inhibitor of HIV replication. The signaling process of this cytokine is mediated by CD4. The product of this gene undergoes proteolytic processing, which is found to yield two functional proteins. The cytokine function is exclusively attributed to the secreted C-terminal peptide, while the N-terminal product may play a role in cell cycle control. Caspase 3 is reported to be involved in the proteolytic processing of this protein. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]

**Product images:**



Circular map for RG220031