

## Product datasheet for **RG234914**

### IL4R (NM\_001257407) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL4R (NM_001257407) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL4R
Synonyms:	CD124; IL-4RA; IL4RA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234914 representing NM\_001257407  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGAAGGATGCCAGAAGAGAAGGGAACATGAAGTCTTGCAGGAGCCACCTGCGTCTCCGACTACA  
 TGAGCATCTCTACTTGCAGTGGAAAGATGAATGGTCCCACCAATTGCAGCACCGAGCTCCGCTGTGTGA  
 CCAGCTGGTTTTCTGCTCTCCGAAGCCACACGTGTATCCCTGAGAACAACGGAGGCGCGGGTGCCTG  
 TGCCACCTGCTCATGGATGACGTGGTCACTGCGGATAACTATACACTGGACCTGTGGGCTGGGCAGCAGC  
 TGCTGTGGAAGGGCTCCTCAAGCCAGCAGCATGTGAAACCCAGGGCCCCAGGAAACCTGACAGTTCA  
 CACCAATGTCTCCGACACTCTGCTGCTGACCTGGAGCAACCCGTATCCCCTGACAATTACCTGTATAAT  
 CATCTCACCTATGCAGTCAACATTTGGAGTGAAAACGACCCGGCAGATTCAGAATCTATAACGTGACCT  
 ACCTAGAACCCTCCCTCCGATCGCAGCCAGCACCTGAAGTCTGGGATTCCTACAGGGCACGGGTGAG  
 GGCTGGGCTCAGTGCTATAACACCACCTGGAGTGAGTGGAGCCCCAGCACCAAGTGGCACAACTCTAC  
 AGGGAGCCCTTCGAGCAGCACCTCTGCTGGGCGTCAGCGTTTCCTGCATTGTATCCTGGCCGTCTGCC  
 TGGTGTGCTATGTCAGCATCACCAAGATTAAGAAAGAATGGTGGGATCAGATTCCTCAACCCAGCCCCGAG  
 CCGCTCGTGGCTATAATAATCCAGGATGCTCAGGGGTACAGTGGGAGAAGCGGTCCCAGGCCAGGAA  
 CCAGCCAAGTGCCCACTGGAAGAATTGTCTTACCAAGCTTTGCCCTGTTTTCTGGAGCACAACATGA  
 AAAGGGATGAAGATCCTCACAAGGCTGCCAAAGAGATGCCTTTCCAGGGCTCTGGAAAATCAGCATGGTG  
 CCCAGTGGAGATCAGCAAGACAGTCTCTGGCCAGAGAGCATCAGCGTGGTGCATGTGTGGAGTTGTT  
 GAGGCCCGGTGGAGTGTGAGGAGGAGGAGGAGGTAGAGGAAGAAAAGGGAGCTTCTGTGCATCGCCTG  
 AGACAGCAGGGATGACTTCCAGGAGGGAAGGGGCAATTGTGGCCCGCTAACAGAGAGCTGTTCCT  
 GGACCTGCTCGGAGAGGAGAATGGGGGCTTTTGCAGCAGGACATGGGGGAGTCATGCCTTCTTCCACCT  
 TCGGGAAGTACGAGTGTACATGCCCTGGGATGAGTTCCCAAGTGCAGGGCCCAAGGAGGCACCTCCCT  
 GGGGAAGGAGCAGCCTCTCCACCTGGAGCCAAGTCTCCTGCCAGCCGACCCAGAGTCCAGACAACCT  
 GACTTGCACAGAGACGCCCTCGTCATCGCAGGCAACCTGCTTACCGCAGCTTCAGCAACTCCCTGAGC  
 CAGTACCCTGTCCCAGAGAGCTGGTCCAGACCCACTGCTGGCCAGACACCTGGAGGAAGTAGAACCCG  
 AGATGCCCTGTGTCCCCAGCTCTGTGAGCCAACCACTGTGCCCAACCTGAGCCAGAAACCTGGGAGCA  
 GATCCTCCGCCAAATGTCTCCAGCATGGGGCAGCTGCAGCCCCGTCTCGGCCCCACCAGTGGCTAT  
 CAGGAGTTGTACATGCGGTGGAGCAGGTGGCACCCAGGCCAGTGGTGGTGGGCTTGGTCCCCCAG  
 GAGAGGCTGGTTACAAGGCTTCTCAAGCTGCTTGCAGCAGTGTGTCCCCAGAGAAATGTGGGT  
 TGGGGCTAGCAGTGGGAAGAGGGGTATAAGCCTTCCAAGACCTCATTCTGGCTGCCCTGGGGACCT  
 GCCCAGTCCCTGTCCCCTTGTTCACCTTTGGACTGGACAGGGAGCCACCTCGCAGTCCGAGAGCTCAC  
 ATCTCCAAGCAGCTCCCAGAGCACCTGGGTCTGGAGCCGGGGAAAAGGTAGAGGACATGCCAAAGCC  
 CCCACTTCCCAGGAGCAGGCCACAGACCCCTTGTGGACAGCTGGGCAGTGGCATTGTCTACTCAGCC  
 CTTACCTGCCACCTGTGCGGCCACCTGAAACAGTGTATGGCCAGGAGGATGGTGGCCAGACCCCTGTCA  
 TGGCCAGTCTTGTGTGGTGTGCTGTGGAGACAGTCTCGCCCCACAACCCCTGAGGGCCCC  
 AGACCCCTCTCCAGTGGGGTTCCACTGGAGGCCAGTCTGTGTCGGCCCTCCCTGGCACCCCTCGGGCATC  
 TCAGAGAAGAGTAAATCCTCATCATCCTTCCATCCTGCCCTGGCAATGCTCAGAGCTCAAGCCAGACCC  
 CAAAATCGTGAACCTTGTCTCCGTGGGACCCACATACATGAGGGTCTCT

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG234914 representing NM\_001257407  
 Red=Cloning site Green=Tags(s)

MQKDARREGNMKVLQEPTCVSDYMSISTCEWKMNGPTNCSTELRLLYQLVFLLEAHTCIPENNGGAGCV  
 CHLLMDDVVSADNYTLDLWAGQQLLWKGSEHVKPRAPGNLTVHTNVSDTLLLTWSNPYPPDNYLYN  
 HLTAVNIWSENDPAFRIYNTYLEPSLRIAASTLKSGISYRVRVRAWAQCYNNTWSEWSPSTKWHNSY  
 REPFEQHLLLGVSVSCIVILAVCLLCYVSITKIKKEWWDQIPNPARSRLVAIIIQDAQGSQWEKRSRGQE  
 PAKCPHWKNCLTKLLPCFLEHNMKRDEDPHKAAKEMPFQGSKSAWCPVEISKTVLWPESISVVRVVELF  
 EAPVECEEEEEVEEEKGSFCASPESSRDDFQEGREGIVARLTESLFLDLLGEENGFCQQDMGESCLLPP  
 SGSTSAHMPWDEFPSAGPKEAPPWGKEQPLHLEPSPPASPTQSPDNLCTETPLVIAGNPAYRSFSNSLS  
 QSPCPRELGPDP LLARHLEEEVEPEMPCVPQLSEPTTVPQPEPETWEQILRRNVLQHGAAPVSAPTSKY  
 QEFVHAVEQGGTQASAVVGLGPPGEAGYKAFSSLLASSAVSPEKCGFGASSGEEGYKPFQDLIPGCPGDP  
 APVVPVPLFTFGLDREPPRSPQSSHLPESSPEHLGLEPGEKVEDMPKPLPQEATDPLVDSLGGIVVYSA  
 LTCHLCGHLKQCHGQEDGGQTPVMASPCCGCCGDRSSPPTTPLRAPDPSPGGVPLEASLCPASLAPSGI  
 SEKSKSSSFHPAPGNAQSSSQTPKIVNFVSVGPTYMRVS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001257407

**ORF Size:** 2430 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\\_001257407.2](#)

**RefSeq Size:** 3821 bp

**RefSeq ORF:** 2433 bp

**Locus ID:** 3566

**UniProt ID:** [P24394](#)

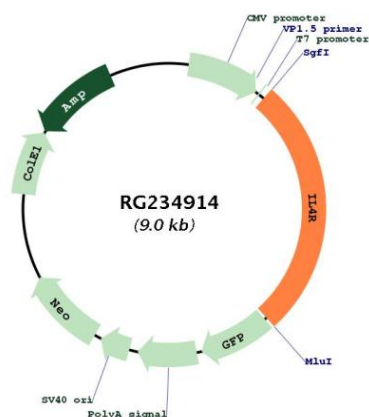
**Cytogenetics:** 16p12.1

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway

**Gene Summary:** This gene encodes the alpha chain of the interleukin-4 receptor, a type I transmembrane protein that can bind interleukin 4 and interleukin 13 to regulate IgE production. The encoded protein also can bind interleukin 4 to promote differentiation of Th2 cells. A soluble form of the encoded protein can be produced by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells. Allelic variations in this gene have been associated with atopy, a condition that can manifest itself as allergic rhinitis, sinusitis, asthma, or eczema. Polymorphisms in this gene are also associated with resistance to human immunodeficiency virus type-1 infection. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Apr 2012]

## Product images:



Circular map for RG234914