

Product datasheet for **RC234914**

IL4R (NM_001257407) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL4R (NM_001257407) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL4R
Synonyms:	CD124; IL-4RA; IL4RA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234914 representing NM_001257407
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGAAGGATGCCAGAAGAGAAGGGAACATGAAGTCTTGCAGGAGCCACCTGCGTCTCCGACTACA
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 TGCTGTGGAAGGGCTCCTCAAGCCAGCAGCATGTGAAACCCAGGGCCCCAGGAAACCTGACAGTTCA
 CACCAATGTCTCCGACACTCTGCTGCTGACCTGGAGCAACCCGTATCCCCTGACAATTACCTGTATAAT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC234914 representing NM_001257407
 Red=Cloning site Green=Tags(s)

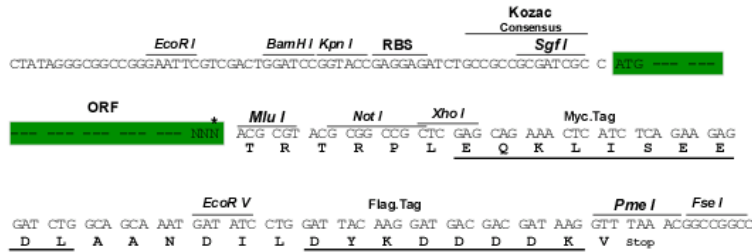
MQKDARREGNMKVLQEPTCVSDYMSISTCEWKMNGPTNCSTELRLLYQLVFLLEAHTCIPENNGGAGCV
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 HLTAVNIWSENDPAFRIYNTYLEPSLRIAASTLKSGISYRVRVRAWAQCYNNTWSEWSPSTKWHNSY
 REPFEQHLLLGVSVCIVILAVCLLCYVSITKIKKEWWDQIPNPARSRLVAIIIQDAQGSQWEKRSRGQE
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 EAPVECEEEEEVEEEKGSFCASPESSRDDFQEGREGIVARLTESLFLDLLGEENGGFCQQDMGESCLLPP
 SGSTSAHMPWDEFPSAGPKEAPPWGKEQPLHLEPSPPASPTQSPDNLCTETPLVIAGNPAYRSFSNSLS
 QSPCPRELGPDP LLARHLEEEVEPEMPCVPQLSEPTTVPQPEPETWEQILRRNVLQHAAAAAPVSAPTSY
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 LTCHLCGHLKQCHGQEDGGQTPVMASPCCGCCGDRSSPPTTPLRAPDPSPGGVPLEASLCPASLAPSGI
 SEKSKSSSFHPAPGNAQSSSQTPKIVNFVSVGPTYMRVS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001257407

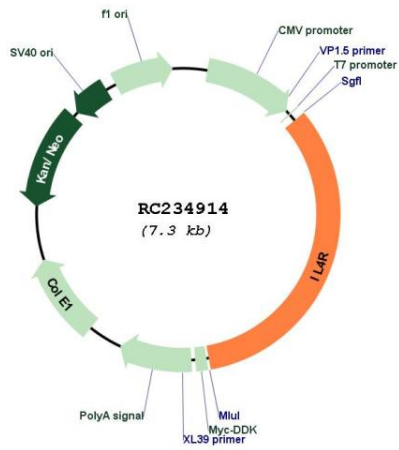
ORF Size: 2430 bp

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:	<ol style="list-style-type: none">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
MW:	88.7 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC234914