

Product datasheet for **RC239259**

IL4R (NM_001257997) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL4R (NM_001257997) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL4R
Synonyms:	CD124; IL-4RA; IL4RA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC239259 representing NM_001257997
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCAGTCAACATTTGGAGTGAAAACGACCCGGCAGATAATCTATAACGTGACCTACCTAGAACCTCCC
TCCGCATCGCAGCCAGCACCCCTGAAGTCTGGGATTTCTACAGGGCACGGGTGAGGGCCTGGGCTCAGTG
CTATAACACCACCTGGAGTGAGTGGAGCCCCAGACCAAGTGGCACAACCTCTACAGGGAGCCCTTCGAG
CAGCACCTCTGCTGGCGTCAGCGTTTCTGCATTGTCACTCTGGCCGTCTGCCTGTTGTGCTATGTCA
GCATCACCAAGATTAAGAAAGAATGGTGGGATCAGATTCCAACCCAGCCCGCAGCCGCTCGTGGCTAT
AATAATCCAGGATGCTCAGGGGTACAGTGGGAGAAGCGGTCCCAGGCCAGGAACCAGCCAAGTGCCCA
CACTGGAAGAATTGTCTTACCAAGCTCTTGCCCTGTTTTCTGGAGCACACATGAAAAGGGATGAAGATC
CTCACAAGGCTGCCAAAGAGATGCCTTCCAGGGCTCTGGAAAATCAGCATGGTGCCTGAGGATCAG
CAAGACAGTCTCTGGCCAGAGAGCATCAGCGTGGTGCATGTGTGGAGTTGTTGAGGCCCCGGTGGAG
TGTGAGGAGGAGGAGGAGGTAGAGGAAGAAAAGGGAGCTTCTGTGCATCGCCTGAGAGCAGCAGGGATG
ACTTCCAGGAGGGAAGGGAGGGCATTGTGGCCCGCTAACAGAGAGCCTGTTCTGGACCTGCTCGGAGA
GGAGAATGGGGGCTTTTCCAGCAGGACATGGGGAGTCACTGCTTCTCCACCTTCGGGAAGTACGAGT
GCTCACATGCCCTGGGATGAGTTCCTCAAGTGCAGGGCCCAAGGAGGCACCTCCCTGGGGCAAGGAGCAGC
CTCTCCACCTGGAGCCAAGTCTCTGCCAGCCGACCCAGAGTCCAGACAACCTGACTTGCACAGAGAC
GCCCTCGTCATCGCAGGCAACCCTGCTTACCGCAGCTTACGCAACTCCCTGAGCCAGTACCCTGTCCC
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CCCAGCTCTCTGAGCCAACCCTGTGCCCAACCTGAGCCAGAACTGGGAGCAGATCCTCCGCGGAAA
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GCAGGCCACAGACCCCTTGTGGACAGCCTGGGCAGTGGCATTGTCTACTCAGCCCTTACCTGCCACCTG
TCCGGCCACCTGAAACAGTGTCACTGGCCAGGAGGATGGTGGCCAGACCCCTGTCATGGCCAGTCCCTGCT
GTGGCTGCTGCTGTGGAGACAGTCTCGCCCCCTACAACCCCTGAGGGCCCCAGACCCCTCTCCAGG
TGGGGTCCACTGGAGGCCAGTCTGTGTCCGGCCTCCCTGGCACCTCGGCATCTCAGAGAAGAGTAAA
TCCTCATCATCTTCCATCCTGCCCTGGCAATGCTCAGAGCTCAAGCCAGACCCCCAAAATCGTGAAC
TTGTCTCCGTGGGACCCACATACATGAGGGTCTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239259 representing NM_001257997
 Red=Cloning site Green=Tags(s)

MQSTFGVKTRQIIYNVTYPEPSLRIAASTLKSGISYRARVRAWAQCYNNTWSEWSPSTKWHNSYREPFE
 QHLLLGVSVSCIVILAVCLLCYVSIKIKKEWWDQIPNPARSRLVAIIIQDAQSQWEKRSRGQEPKCP
 HWKNCLTKLLPCFLEHNMKRDEDPHKAAKEMPFQSGKSAWCPVEISKTVLWPESISVVRVCVELFEAPVE
 CEEEEVEEEKGSFCASPESSRDDFQEGREGIVARL TESLFLDLLGEENGGFCQQDMGESCLLPPSGSTS
 AHMPWDEFPSAGPKEAPPWGKEQPLHLEPSPASPTQSPDNLCTETPLVIAGNPAYRSFSNSLSQSPCP
 RELGPDLLARHLEEVPEMPCVPQLSEPTTVQPEPETWEQILRRNVLQHGAAPVSAPTSGYQEFVH
 AVEQGGTQASAVVGLGPPGEAGYKAFSSLLASSAVSPEKCGFGASSGEEGYKPFQDLIPGCPDPAPVPV
 PLFTFGLDREPPRSPQSSHLPSSSPEHLGLEPGEKVEDMPKPLPQEATDPLVDSLGGIYVSALTCHL
 CGHLKQCHGEDGGQTPVMASPCCGCCCGDRSSPPTTPLRAPDPSPGVPLEASLCPASLAPSGISEKSK
 SSSSFHPAPGNAQSSSQTPKIVNFVSVGPTYMRVS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

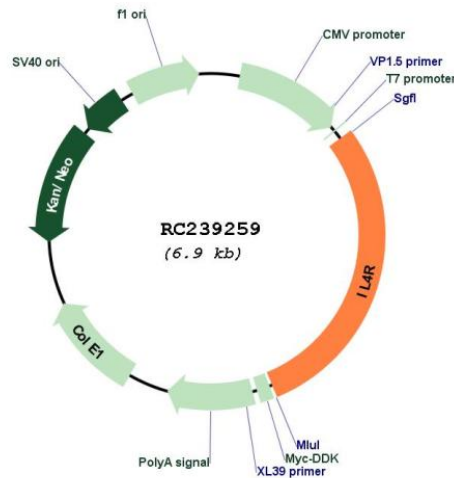
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001257997

ORF Size: 1995 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_001257997.2](#)

RefSeq Size:	3589 bp
RefSeq ORF:	1998 bp
Locus ID:	3566
Cytogenetics:	16p12.1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway
MW:	72.3 kDa

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]