

Product datasheet for **SC301344**

IL4R (NM_001008699) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL4R (NM_001008699) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL4R
Synonyms:	CD124; IL4RA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001008699 edited ATGGGGTGGCTTTGCTCTGGGCTCCTGTTCCCTGTGAGCTGCCTGGTCTGCTGCAGGTG GCAAGCTCTGGGAACATGAAGTCTTGCAGGAGCCACCTGCGTCTCCGACTACATGAGC ATCTCTACTTGGCAGTGAAGATGAATGGTCCCACCAATTGCAGCACCGAGCTCCGCCTG TTGTACCAGCTGGTTTTTCTGCTCTCCGAAGCCACACGTGTATCCCTGAGAACAACGGA GGCGCGGGGTGCGTGTGCCACCTGCTCATGGATGACGTGGTCAGTGCGGATAACTATACA CTGGACCTGTGGGCTGGGCAGCAGCTGCTGTGGAAGGGCTCCTTCAAGCCAGCGAGCAT GTGAAACCCAGGGCCCCAGGAAACCTGACAGTTCACACCAATGTCTCCGACACTCTGCTG CTGACCTGGAGCAACCCGTATCCCCTGACAATTACCTGTATAATCATCTCACCTATGCA GTCAACATTTGGAGTGAAAACGACCCGGCAGATTTCAGAATCTATAACGTGACCTACCTA GAACCCTCCCTCCGCATCGCAGCCAGCACCTGAAGTCTGGGATTTCTACAGGGCACGG GTGAGGGCCTGGGCTCAGTGCTATAACACCACCTGGAGTGAGTGGAGCCCCAGCACCAAG TGGCACAACCTCAAATATTTGCTGA
Restriction Sites:	Please inquire
ACCN:	NM_001008699
Insert Size:	700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.



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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:	<u>NM_001008699.1, NP_001008699.1</u>
RefSeq Size:	1106 bp
RefSeq ORF:	684 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
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> <p>Transcript Variant: This variant (2) differs in the 3' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter and has a distinct C-terminus compared to isoform a. Isoform b represents the soluble form of the receptor.</p>