

## Product datasheet for **TL312164**

### IL4R Human shRNA Plasmid Kit (Locus ID 3566)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	IL4R Human shRNA Plasmid Kit (Locus ID 3566)
Locus ID:	3566
Synonyms:	CD124; IL-4RA; IL4RA
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	IL4R - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 3566). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<u><a href="#">NM_000418</a></u> , <u><a href="#">NM_001008699</a></u> , <u><a href="#">NM_001257406</a></u> , <u><a href="#">NM_001257407</a></u> , <u><a href="#">NM_001257997</a></u> , <u><a href="#">NM_000418.1</a></u> , <u><a href="#">NM_000418.2</a></u> , <u><a href="#">NM_000418.3</a></u> , <u><a href="#">NM_001257407.1</a></u> , <u><a href="#">NM_001257406.1</a></u> , <u><a href="#">NM_001257997.1</a></u> , <u><a href="#">BC110343</a></u> , <u><a href="#">BC136365</a></u> , <u><a href="#">BC151131</a></u> , <u><a href="#">NM_001257407.2</a></u> , <u><a href="#">NM_000418.4</a></u> , <u><a href="#">NM_001257997.2</a></u> , <u><a href="#">NM_001257406.2</a></u>
UniProt ID:	<u><a href="#">P24394</a></u>
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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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**Performance  
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).