

## Product datasheet for RC233695

### IL3RA (NM\_001267713) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL3RA (NM_001267713) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL3RA
Synonyms:	CD123; hIL-3Ra; IL3R; IL3RAY; IL3RX; IL3RY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233695 representing NM_001267713 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTCTCCTTTGGCTCAGCTGCTCCTGATCGCCCTGCCCTGTCTCCTGCAAACGAAGGAAGGTGGGA  
AGCCTTGGGCAGGTGCGGAGAATCTGACCTGCTGGATTCATGACGTGGATTTCTTGAGCTGCAGCTGGGC  
GGTAGGCCCGGGGCCCCCGGGACGTCCAGTACGACCTGACTTGAACGTTGCCAACAGGCGTCAACAG  
TACGAGTGTCTTCACTACAAAACGGATGCTCAGGGAACACGTATCGGGTGTGTTTCGATGACATCTCTC  
GACTCTCCAGCGTTCTCAAAGTCCCACATCCTGGTGCGGGGCAGGAGCGCAGCCTTCGGTATCCCTG  
CACAGATAAGTTTGTGCTTTTTACAGATTGAGATTAACCTCCACCAACATGACTGCAAAGTGAAT  
AAGACACATTCCTTTATGCACTGAAAAATGAGAAGTCATTTCAATCGCAAATTCGCTATGAGCTTCAGA  
TACAAAAGAGAATGCAGCCTGTAATCACAGAACAGGTCAGAGACAGAACCTCCTCCAGCTACTCAATCC  
TGGAACGTACACAGTACAAATAAGAGCCCGGAAAGAGTGATGAATCTTGAGCGCCTGGAGCACCCCC  
CAGCGCTTCGAGTGCACAGGAGGAGGGCGCAAACACACGTGCCCTGGCGGACGTGCTGCTGATCGCGC  
TGGGGACGCTGCTGGCCCTGGTCTGTGTCTTCGTGATCTGCAGAAGGTATCTGGTATGCAGAGACTCTT  
TCCCCGCATCCCTCACATGAAAGACCCCATCGGTGACAGCTTCCAAAACGACAAGCTGGTGGTCTGGGAG  
GCGGGCAAAGCCGGCCTGGAGGAGTGTCTGGTACTGAAGTACAGGTCGTGCAGAAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233695 representing NM\_001267713  
Red=Cloning site Green=Tags(s)

MVLLWL TLLLI ALPCLLQTKEGGK PWAGAENL TCWIHDVDFL SC SWAVGPGAPADVQYDLYL NVANRRQQ  
 YECLHYK TDAQGTRIGCRFDDISRLSSGSQSSHILVRGRSAAFGIPCTDKFVVFSQIEILTPPNMTAKCN  
 KTHSFMHWKMRSHFNRFYELQIQKRMQPVITEQVRDRTSFQLLNPGTYTVQIRARERVYEFLSAWSTP  
 QRFEC DQEEGANTRAWRTSLLIALGTL LALVCVFVICRRYLVMQRLFPRI PHMKDPIGDSFQNDKLVVWE  
 AGKAGLEECLVTEVQVVQKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001267713

**ORF Size:** 900 bp

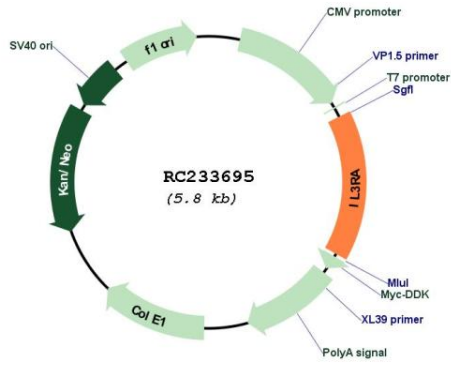
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001267713.1</a></u> , <u><a href="#">NP_001254642.1</a></u>
<b>RefSeq Size:</b>	1479 bp
<b>RefSeq ORF:</b>	903 bp
<b>Locus ID:</b>	3563
<b>UniProt ID:</b>	<u><a href="#">P26951</a></u>
<b>Cytogenetics:</b>	X;Y
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Apoptosis, Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway
<b>MW:</b>	34.9 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is an interleukin 3 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL3 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL3. This gene and the gene encoding the colony stimulating factor 2 receptor alpha chain (CSF2RA) form a cytokine receptor gene cluster in a X-Y pseudoautosomal region on chromosomes X or Y. Alternatively spliced transcript variants encoding distinct isoforms have been found. [provided by RefSeq, Jun 2012]</p>

Product images:



Circular map for RC233695