

## Product datasheet for RC222553

### IL5RA (NM\_175727) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL5RA (NM_175727) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL5RA
Synonyms:	CD125; CDw125; HSIL5R3; IL5R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222553 representing NM_175727 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCATCGTGGCGCATGTATTACTCATCCTTTGGGGCCACTGAGATACTGCAAGCTGACTTACTTC  
CTGATGAAAAGATTTCACTTCTCCACCTGTCAATTTACCATTAAAGTTACTGGTTTGGCTCAAGTTCT  
TTTACAATGGAACCAAATCCTGATCAAGAGCAAAGGAATGTTAATCTAGAATATCAAGTAAAAATAAC  
GCTCCAAAAGAAGATGACTATGAAACCAGAATCACTGAAAGCAAATGTGTAACCATCTCCACAAAGGCT  
TTTCAGCAAGTGTGCGGACCATCTGCAGAACGACCCTCACTACTGGCCAGCAGCTGGGCTTCTGCTGA  
ACTTCATGCCCCACCAGGTCTCCTGGAACCTCAATTGTGAATTTAACTTGCACCACAAACTACAGAA  
GACAATTATTCACGTTTAAAGTTCATACCAAGTTTCCCTTCACTGCACCTGGCTTGTGGCACAGATGCC  
CTGAGGACACGCAGTATTTCTCTACTATAGGTATGGCTCTTGGACTGAAGAATGCCAAGAATACAGCAA  
AGACACACTGGGGAGAAATATCGCATGCTGGTTTCCAGGACTTTTATCCTCAGCAAAGGGCGTGACTGG  
CTTGGCGTGTGTTAACGGCTCCAGCAAGCACTCTGCTATCAGGCCCTTGTATCAGCTGTTTGCCTTC  
ACGCCATTGATCAAATAAATCCTCCACTGAATGTCACAGCAGAGATTGAAGGAATCGTCTCTATCCA  
ATGGGAGAAACCAGTGTCTGCTTTTCCAATCCATTGCTTTGATTATGAAGTAAAAATACACAATAAAGG  
AATGGATATTTGCAGATAGAAAAATTGATGACCAATGCATTATCAATAATTGATGATCTTTCTAAGT  
ACGATGTTCAAGTGAGAGCAGCAGTGAGCTCCATGTGCAGAGAGGCAGGGCTCTGGAGTGAGTGGAGCCA  
ACCTATTTATGTGGTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

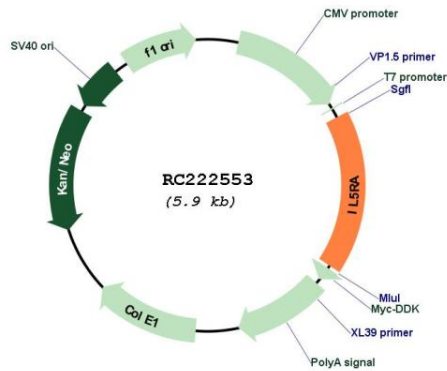


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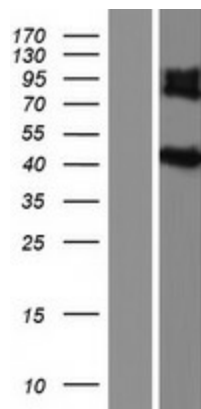


<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and 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>	<a href="#">NM_175727.2</a> , <a href="#">NP_783854.1</a>
<b>RefSeq Size:</b>	1956 bp
<b>RefSeq ORF:</b>	1002 bp
<b>Locus ID:</b>	3568
<b>UniProt ID:</b>	<a href="#">Q01344</a>
<b>Cytogenetics:</b>	3p26.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway
<b>MW:</b>	37.5 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is an interleukin 5 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 IL5 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL5. This protein has been found to interact with syndecan binding protein (syntenin), which is required for IL5 mediated activation of the transcription factor SOX4. Several alternatively spliced transcript variants encoding four distinct isoforms have been reported. [provided by RefSeq, Jul 2011]</p>

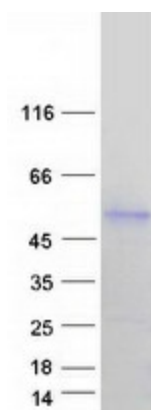
Product images:



Circular map for RC222553



Western blot validation of overexpression lysate (Cat# [LY406268]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222553 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IL5RA protein (Cat# [TP322553]). The protein was produced from HEK293T cells transfected with IL5RA cDNA clone (Cat# RC222553) using MegaTran 2.0 (Cat# [TT210002]).