

## Product datasheet for **RG232616**

### IL5RA (NM\_001243099) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL5RA (NM_001243099) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL5RA
Synonyms:	CD125; CDw125; HSIL5R3; IL5R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232616 representing NM_001243099 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCATCGTGGCGCATGTATTACTCATCCTTTGGGGCCACTGAGATACTGCAAGCTGACTTACTTC  
CTGATGAAAAGATTTCACTTCTCCACCTGTCAATTTACCATTAAAGTTACTGGTTTGGCTCAAGTTCT  
TTTACAATGGAACCAAATCCTGATCAAGAGCAAAGGAATGTTAATCTAGAATATCAAGTAAAAATAAC  
GCTCCAAAAGAAGATGACTATGAAACCAGAATCACTGAAAGCAAATGTGTAACCATCTCCACAAAGGCT  
TTTCAGCAAGTGTGCGGACCATCCTGCAGAACGACCCTCACTACTGGCCAGCAGCTGGGCTTCTGCTGA  
ACTTCATGCCCCACCAGGTCTCCTGGAACCTCAATTGTGAATTTAACTTGCACCACAAACTACAGAA  
GACAATTATTCACGTTTAAGGTCATACCAAGTTTCCCTTCACTGCACCTGGCTTGTGGCACAGATGCC  
CTGAGGACACGCAGTATTTCTCTACTATAGGTATGGCTCTTGGACTGAAGAATGCCAAGAATACAGCAA  
AGACACACTGGGAGAAAATATCGCATGCTGGTTTCCCAGGACTTTTATCCTCAGCAAAGGGCGTGACTGG  
CTTGGCGTGCTTGTAAACGGCTCCAGCAAGCACTCTGCTATCAGGCCCTTGTATCAGCTGTTTGCCTTC  
ACGCCATTGATCAAATAAATCCTCCACTGAATGTCACAGCAGAGATTGAAGGAATCGTCTCTATCCA  
ATGGGAGAAAACCAAGTGTCTGCTTTTCCAATCCATTGCTTTGATTATGAAGTAAAAATACACAATAAAG  
AATGGATATTTGCAGATAGAAAATTGATGACCAATGCATTCAATCAATGATGATCTTTCTAAGT  
ACGATGTTCAAGTGAGAGCAGCAGTGAGCTCCATGTGCAGAGAGGCAGGGCTCTGGAGTGAGTGGAGCCA  
ACCTATTTATGTGGAAAATGATGAACACAGCCCTTGAGAGAGTGGTTTGTCAATTGTGATTATGGCAACC  
ATCTGCTTCATCTGTAAATTCTCTCGCTTATCTGTAATAAAGCTGGGTCCAGTGAGACGGAAATTGA  
AGTCATCTGTTATA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232616 representing NM\_001243099  
 Red=Cloning site Green=Tags(s)

MIIVAHVLLILLGATEILQADLLPDEKISLLPPVNFTIKVTGLAQVLLQWKPNDQEQRNVNLEYQVKIN  
 APKEDDYETRITESKCVTILHKGFSASVRTILQNDHSLASSWASAEHAPPGSPGTSIVNLTCTTNTTE  
 DNYSRLRSYQVSLHCTWLVGTDAPEDTQYFLYYRYGSWTEECQEYSKDTLGRNIACWFPRTFILSKGRDW  
 LAVLVNGSSKHSAIRPFDQLFALHAIDQINPLNVTAIEGTRLSIQWEKPVSAFPIHCFDYEVIHNTR  
 NGYLQIEKLMTNAFISIIDDLISKYDVQVRAAVSSMCREAGLWSEWSQPIYVGNDHKLPLREWFVIVIMAT  
 ICFILLILSLICKIKLGPVRRKLSVVI

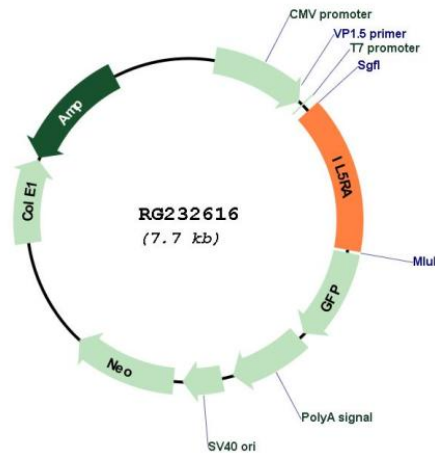
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001243099

<b>ORF Size:</b>	1134 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<a href="#">NM_001243099.1</a> , <a href="#">NP_001230028.1</a>
<b>RefSeq Size:</b>	5667 bp
<b>RefSeq ORF:</b>	1137 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>Gene Summary:</b>	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]