

Product datasheet for **RG222581**

IL5RA (NM_175724) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL5RA (NM_175724) 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:	>RG222581 representing NM_175724 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCATCGTGGCGCATGTATTACTCATCCTTTGGGGCCACTGAGATACTGCAAGCTGACTTACTTC
CTGATGAAAAGATTTCACTTCTCCACCTGTCAATTTACCATTAAAGTTACTGGTTTGGCTCAAGTTCT
TTTACAATGGAACCAAATCCTGATCAAGAGCAAAGGAATGTTAATCTAGAATATCAAGTAAAAATAAAC
GCTCCAAAAGAAGATGACTATGAAACCAGAATCACTGAAAGCAAATGTGTAACCATCCTCCAAAAGGCT
TTTCAGCAAGTGTGCGGACCATCTGCAGAACGACCCTACTACTGGCCAGCAGCTGGGCTTCTGCTGA
ACTTCATGCCCCACCAGGTCTCCTGGAACCTCAATTGTGAATTTAACTTGCACCACAAACTACAGAA
GACAATTATTCACGTTTAAAGTCATACCAAGTTTCCCTTCACTGCACCTGGCTTGTGGCACAGATGCC
CTGAGGACACGCAGTATTTTCTACTATAGGTATGGCTCTTGGACTGAAGAATGCCAAGAATACAGCAA
AGACACTGGGGAGAAATATCGCATGCTGGTTTCCAGGACTTTTATCCTCAGCAAAGGGCGTGACTGG
CTTGGGTGCTTGTAAACGGCTCCAGCAAGCACTCTGCTATCAGGCCCTTGTATCAGCTGTTTGCCTTC
ACGCCATTGATCAAATAAATCCTCCACTGAATGTCACAGCAGAGATTGAAGGAATCGTCTCTATCCA
ATGGGAGAAACCAGTGTCTGCTTTTCCAATCCATTGCTTTGATTATGAAGTAAAAATACACAATAAAGG
AATGGATATTTGCAGATAGAAAATTGATGACCAATGCATTATCAATAATTGATGATCTTTCTAAGT
ACGATGTTCAAGTGAGAGCAGCAGTGAGCTCCATGTGCAGAGAGGCAGGGCTCTGGAGTGAGTGGAGCCA
ACCTATTTATGTGGTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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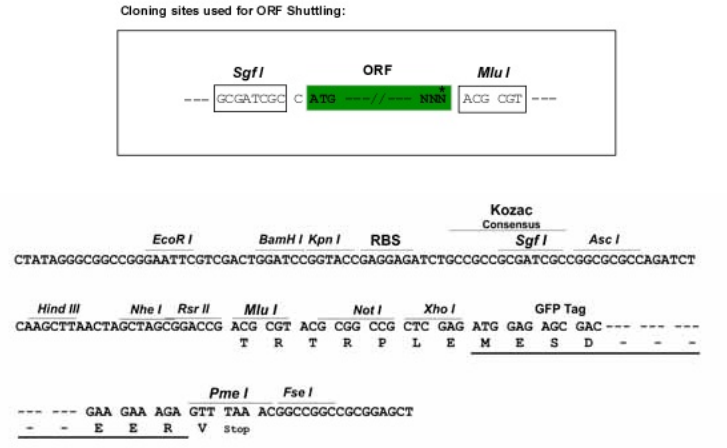
Protein Sequence: >RG222581 representing NM_175724
Red=Cloning site Green=Tags(s)

MIIVAHVLLILLGATEILQADLLPDEKISLLPPVNFITIKVTGLAQVLLQWKNPDQEQRNVNLEYQVKIN
 APKEDDYETRITESKCVTILHKGFSAVRTILQNDHSLASSWASAEHAPPGSPGTSIVNLTCTTNTTE
 DNY SRLRSYQVSLHCTWLVGTDAPEDTQYFLYYRYGSWTEECQEYSKDTLGRNIACWFPRTFILSKGRDW
 LAVLVNGSSKHSAIRPFDQLFALHAIDQINPPLNVTAEIEGTRLSIQWEKPVSAFPIHCFDYEVKIHNTR
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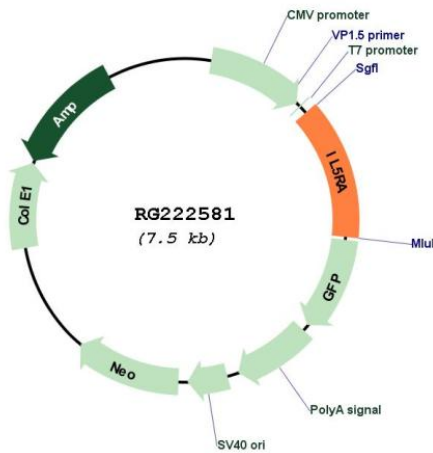
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_175724

ORF Size: 999 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).
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:	NM_175724.2 , NP_783851.1
RefSeq Size:	2052 bp
RefSeq ORF:	1002 bp
Locus ID:	3568
UniProt ID:	Q01344
Cytogenetics:	3p26.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway
Gene Summary:	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]