

## Product datasheet for **RG210450**

### IL15RA (NM\_172200) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL15RA (NM_172200) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL15RA
Synonyms:	CD215
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210450 representing NM_172200 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCGTGGAACACGCAGACATCTGGGTCAAGAGCTACAGCTTGTACTCCAGGGAGCGGTACATTTGTA  
ACTCTGGTTTCAAGCGTAAAGCCGGCACGTCCAGCCTGACGGAGTGCGTGTGAACAAGGCCACGAATGT  
CGCCCACTGGACAACCCCAAGTCTCAAATGCATTAGAGACCTGCCCTGGTTCACCAAAGGCCAGCGCCA  
CCCTCCACAGTAACGACGGCAGGGGTGACCCACAGCCAGAGAGCCTCTCCCTTCTGAAAAGAGCCCG  
CAGCTTCACTCCAGCTCAAACAACACAGCGGCCACAACAGCAGCTATTGTCCCGGGCTCCAGCTGAT  
GCCTTCAAATCACCTTCCACAGGAACCACAGAGATAAGCAGTCATGAGTCTCCACGGCACCCCTCT  
CAGACAACAGCCAAGACCTGGGAACTCACAGCATCCGCCTCCACAGCCGCGCAGGTGTGTATCCACAGG  
GCCACAGCGACCACTGTGGCTATCTCCACGTCCACTGTCTGTGTGGGCTGAGCGCTGTGTCTCT  
CCTGGCATGCTACCTCAAGTCAAGGCAAACCTCCCCGCTGGCCAGCGTTGAAATGGAAGCCATGGAGGCT  
CTGCCGGTGACTTGGGGGACCAGCAGCAGAGATGAAGACTTGAAAACCTGCTCTCACCACCTA

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210450 representing NM\_172200  
 Red=Cloning site Green=Tags(s)

MSVEHADIWVKSYSLSYRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRDPALVHQRPAP  
 PSTVTTAGVTPQPESLSPSGKEPAASSPSSNNTAATTAIVPGSQLMPSKSPSTGTTEISSHESHGTPS  
 QTTAKTWELTASASHQPPGVYPQGHSDTTVAISTSTVLLCGLSAVSLACYLKSRQTPPLASVEMEAMEA  
 LPVTWGTSSRDEDLNCSHHL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_172200

**ORF Size:** 693 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:**

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\\_172200.1](#), [NP\\_751950.1](#)

**RefSeq Size:** 1843 bp

**RefSeq ORF:** 705 bp

**Locus ID:** 3601

**UniProt ID:** [Q13261](#)

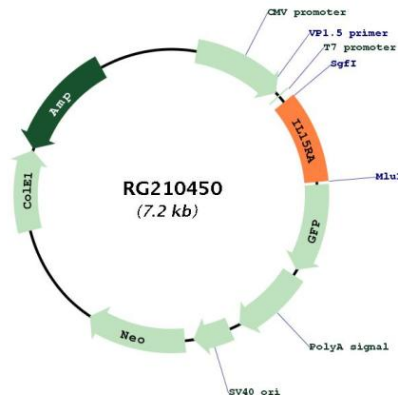
**Cytogenetics:** 10p15.1

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway

**Gene Summary:** This gene encodes a cytokine receptor that specifically binds interleukin 15 (IL15) with high affinity. The receptors of IL15 and IL2 share two subunits, IL2R beta and IL2R gamma. This forms the basis of many overlapping biological activities of IL15 and IL2. The protein encoded by this gene is structurally related to IL2R alpha, an additional IL2-specific alpha subunit necessary for high affinity IL2 binding. Unlike IL2RA, IL15RA is capable of binding IL15 with high affinity independent of other subunits, which suggests distinct roles between IL15 and IL2. This receptor is reported to enhance cell proliferation and expression of apoptosis inhibitor BCL2L1/BCL2-XL and BCL2. Multiple alternatively spliced transcript variants of this gene have been reported.[provided by RefSeq, Apr 2010]

### Product images:



Circular map for RG210450