

## Product datasheet for **RG233846**

### IL6R (NM\_001206866) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL6R (NM_001206866) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL6R
Synonyms:	CD126; gp80; HIES5; IL-1Ra; IL-6R; IL-6R-1; IL-6RA; IL6Q; IL6QTL; IL6RA; IL6RQ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233846 representing NM_001206866 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGCTGGCCGTCGGCTGCGCGCTGCTGGCTGCCCTGCTGGCCGCGCCGGGAGCGGCGCTGGCCCCAAGGC  
GCTGCCCTGCGCAGGAGGTGGCGAGAGGCGTGTGACCAGTCTGCCAGGAGACAGCGTGACTCTGACCTG  
CCCGGGGTAGAGCCGGAAGACAATGCCACTGTTCACTGGGTGCTCAGGAAGCCGGCTGCAGGCTCCAC  
CCCAGCAGATGGGCTGGCATGGGAAGGAGGCTGTGCTGAGGTGGTGCAGCTCCAGACTCTGAAACT  
ATTCATGTACCGGGCCGCGCCAGTGGGACTGTGCATTGTGGTGGATGTTCCCCCGAGGAGCC  
CCAGCTCTCCTGCTCCGGAAGAGCCCCCTCAGCAATGTTGTTGTGAGTGGGGTCTCGGAGCACCCCA  
TCCTGACGACAAAGGCTGTGCTCTTGGTGAAGATTTTCAAGACAGTCCGGCCGAAGACTTCCAGGAGC  
CGTGCCAGTATCCAGGAGTCCAGAAGTTCCTGCCAGTTAGCAGTCCCGGAGGAGACAGCTCTTT  
CTACATAGTGTCCATGTGCGTCGCCAGTGTGCGGAGCAAGTTCAGCAAACTCAAACCTTTCAGGGT  
TGTGGAATCTTGACGCTGATCCGCTGCCAATCACAGTCACTGCCGTGGCCAGAAACCCCGCTGGC  
TCAGTGTACCTGGCAAGACCCCACTCCTGGAATCATCTTTTACAGACTACGGTTTGAGCTCAGATA  
TCGGGCTGAACGGTCAAAGACATTCACAACATGGATGGTCAAGGACCTCCAGCATCACTGTGTATCCAC  
GACGCTGGAGCGGCTGAGGCACGTGGTGCAGCTTCGTGCCAGGAGGAGTTCGGGCAAGCGGATGGA  
GCGAGTGGAGCCCGGAGGCCATGGGCACGCTTGGACAGACAGGCTTTCCTCGTTGCCAGGATGGAG  
TACAGCAGTGCAATCACAGCTCACGGCAACTTCTGCCTCCTGGGTCAAGCAATCCTCCCGCTCAGCCT  
CCTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG233846 representing NM\_001206866  
Red=Cloning site Green=Tags(s)

MLAVGCALLAALLAAPGAALAPRRCPAQEVARGVLTSLPGDSVTLTCPGVEPEDNATVHWVLRKPAAGSH  
 PSRWAGMGRLLLLRSVQLHDSGNYSYRAGRPAAGTVHLLVDVPPEEPQLSCFRKSPLSNVCEWGRSTP  
 SLTTKAVLLVRKFNQSPAEDFQEPQYSQESQKFSQQLAVPEGDSSFYIVSMCVASSVGSKF SKTQTFQG  
 CGILQPDPPANITVTAVARNRWL SVTWQDPHSWNSSFYRLRFELRYRAERSKFTTWMVKDLQHHCVIH  
 DAWSGLRHVVQLRAQEFGQGEWSEWSEAMGTPWTDRLSPRCPGWSTAVQSQLTATSASWVQAILPPQP  
 PK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001206866

**ORF Size:** 1056 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\\_001206866.2](#)

**RefSeq Size:** 2058 bp

**RefSeq ORF:** 1059 bp

**Locus ID:** 3570

**UniProt ID:** [P08887](#)

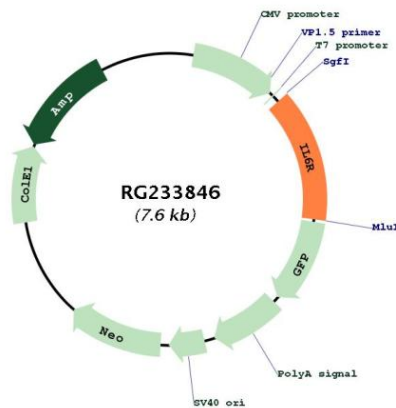
**Cytogenetics:** 1q21.3

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

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

**Gene Summary:** This gene encodes a subunit of the interleukin 6 (IL6) receptor complex. Interleukin 6 is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in the immune response. The IL6 receptor is a protein complex consisting of this protein and interleukin 6 signal transducer (IL6ST/GP130/IL6-beta), a receptor subunit also shared by many other cytokines. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Alternatively spliced transcript variants encoding distinct isoforms have been identified in this gene. A pseudogene of this gene is found on chromosome 9. [provided by RefSeq, Aug 2020]

### Product images:



Circular map for RG233846