

Product datasheet for **RG219601**

IL6R (NM_181359) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL6R (NM_181359) 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:	>RG219601 representing NM_181359 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGCCGTCGGCTGCGCGTCTGGCTGCCCTGCTGGCCGCGCCGGGAGCGGCGCTGGCCCCAAGGC
GCTGCCCTGCGCAGGAGGTGGCGAGAGGCGTCTGACCAGTCTGCCAGGAGACAGCGTGACTCTGACCTG
CCCGGGGTAGAGCCGGAAGACAATGCCACTGTTCACTGGGTGCTCAGGAAGCCGGCTGCAGGCTCCAC
CCCAGCAGATGGGCTGGCATGGGAAGGAGGCTGCTGCTGAGGTCGGTGCAGCTCCAGACTCTGAAACT
ATTCATGCTACCGGGCCGCGCCAGCTGGGACTGTGCATTGCTGGTGGATGTTCCCCCGAGGAGCC
CCAGCTCTCCTGCTTCCGGAAGAGCCCCCTCAGCAATGTTGTTGTGAGTGGGGTCTCGGAGCACCCCA
TCCTGACGACAAAGGCTGTGCTCTTGGTGAAGATTTTCAAGACAGTCCGGCCGAAGACTTCCAGGAGC
CGTGCCAGTATCCAGGAGTCCAGAAGTCTCCTGCCAGTTAGCAGTCCCGGAGGAGACAGCTCTTT
CTACATAGTGTCCATGTGCGTCGCCAGTGTGCGGAGCAAGTTCAGCAAACTCAAACCTTTCAGGGT
TGTGGAATCTTGACGCTGATCCGCTGCCAATCACAGTCACTGCCGTGGCCAGAAACCCCGCTGGC
TCAGTGTACCTGGCAAGACCCCACTCCTGGAATCATCTTTTACAGACTACGGTTTGAAGCTCAGATA
TCGGGCTGAACGGTCAAAGACATTCACAACATGGATGGTCAAGGACCTCCAGCATCACTGTGTATCCAC
GACGCTGGAGCGGCTGAGGCACGTGGTGCAGCTTCGTGCCAGGAGGAGTTCCGGCAAGGCGAGTGGA
CGGAGTGGAGCCCGAGGCCATGGGCACGCTTGGACAGAATCCAGGAGTCTCCAGCTGAGAACGAGGT
GTCCACCCCATGCAGGCACTTACTACTAATAAAGACGATGATAATATTCTTTCAGAGATTCTGCAAA
GCGACAAGCTCCAGGTTCAAGAAGACGTGGAAGCTGCGGGCTC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219601 representing NM_181359
Red=Cloning site Green=Tags(s)

MLAVGCCALLAALLAAPGAALAPRRCPAQEVARGVLTSLPGDSVTLTCPGVEPEDNATVHWVLRKPAAGSH
 PSRWAGMGRLLLLRSVQLHDSGNYSYRAGRPAAGTVHLLVDVPPEEPQLSCFRKSPLSNVCEWGRSTP
 SLTTKAVLLVRKFNQSPAEDFQEPQYSQESQKFSQCLAVPEGDSFYIIVSMCVASSVSGSKFSKTQTFQG
 CGILQPDPPANITVTAVARNRWL SVTWQDPHSWNSSFYRLRFELRYRAERSKFTTWMVKDLQHHCVIH
 DAWSGLRHVVQLRAQEFGQGEWSEWSEAMGTPWTESRSPPAENEVSTPMQALTTNKDDDNILFRDSAN
 ATSLPGSRRRGSCGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181359

ORF Size: 1095 bp

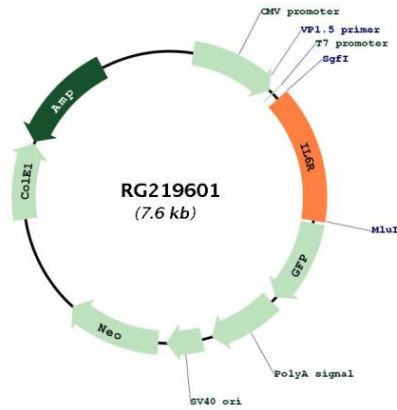
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_181359.3
RefSeq Size:	4082 bp
RefSeq ORF:	1098 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 RG219601