

Product datasheet for **RG221874**

IL6R (NM_000565) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL6R (NM_000565) 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)



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ORF Nucleotide Sequence:

>RG221874 representing NM_000565
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGGCCGTCGGCTGCGCGCTGCTGGCTGCCCTGCTGGCCGCGCCGGGAGCGGCCTGGCCCCAAGGC
 GCTGCCCTGCGCAGGAGGTGGCAGAGGCGTGCTGACCAGTCTGCCAGGAGACAGCGTGACTCTGACCTG
 CCCGGGGTAGAGCCGAAGACAATGCCACTGTTCACTGGGTGCTCAGGAAGCCGGCTGCAGGCTCCAC
 CCCAGCAGATGGGCTGGCATGGGAAGGAGGCTGCTGCTGAGGTCGGTGCAGCTCCACGACTCTGGAACT
 ATTCATGCTACCGGGCCGCCCCAGCTGGGACTGTGCACTTGTGGTGGATGTTCCCCCGAGGAGCC
 CCAGCTCTCTGCTTCCGGAAGAGCCCCCTCAGCAATGTTGTTTGTGAGTGGGTCTCGGAGCACCCCA
 TCCCTGACGACAAAGGCTGTGCTCTTGGTGAAGAGTTTCAGAACAGTCCGGCCGAAGACTTCCAGGAGC
 CGTGCCAGTATCCAGGAGTCCAGAAGTTCTCTGCCAGTTAGCAGTCCGGAGGGAGACAGCTCTTT
 CTACATAGTGTCCATGTGCGTCGCCAGTAGTGTGGGAGCAAGTTCAGCAAACTCAAACCTTTCAGGGT
 TGTGGAATCTTGACGCTGATCCGCTGCCAATCACAGTCACTGCCGTGGCCAGAAACCCCGCTGGC
 TCAGTGTACCTGGCAAGACCCCACTCCTGGAATCATCTTTCTACAGACTACGTTTGTAGCTCAGATA
 TCGGGCTGAACGGTCAAAGACATTCACAACATGGATGGTCAAGGACCTCCAGCATCACTGTGTCCAC
 GACGCCTGGAGCGCCTGAGGCAGTGGTGCAGCTTCTGCCAGGAGGAGTTCGGGCAAGGCGAGTGG
 GCGAGTGGAGCCCGAGGCCATGGGCACGCTTGGACAGAATCCAGGAGTCTCCAGCTGAGAACGAGGT
 GTCCACCCCATGCAGGCACTTACTACTAATAAAGACGATGATAATTTCTTTTCCAGAGATTCTGCAAT
 GCGACAAGCCTCCAGTCAAGCTTCTTCTTCCAGTACCAGTCCACATTCCTGGTGTGAGGGAGCC
 TGGCCTTCGGAACGCTCCTCTGCATTGCCATTGTTCTGAGGTTCAAGAAGACGTGGAAGCTGCGGGCTC
 GAAGGAAGGCAAGACAAGCATGCATCCGCGTACTCTTTGGGGCAGCTGGTCCCGAGAGGCCTCGACCC
 ACCCCAGTGCTTGTCTCTCATCTCCCAACCGGTGTCCCCAGCAGCCTGGGTCTGACAACTCTCGA
 GCCACAACCGACCAGATGCCAGGACCCACGGAGCCCTTATGACATCAGCAATACAGACTACTTCTTCCC
 CAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221874 representing NM_000565
 Red=Cloning site Green=Tags(s)

MLAVGCALLAALLAAPGAALAPRRCPAQEVARGVLTSLPGDSVTLTCPGVEPEDNATVHWVLRKPAAGSH
 PSRWAGMGRRLLRVQLHDSGNYSCYRAGRPAGTVHLLVDVPPEEPQLSCFRKSPLSNVCEWGRSTP
 SLTTKAVLLVRKFNQSPAEDFQEPQYQESQKFSQQLAVPEGDSFYIVSMCVASSVSKFSKTQTFQG
 CGILQDPPANITVTAVARNPRWLSVTWQDPHSWNSSFYRLRFELRYRAERSKFTTWMVKDLQHHCVIH
 DAWSLRHVVQLRAQEEFGQGEWSEWSPAMGTPWTESRSPPAENEVSTPMQALTTNKDDNILFRDSAN
 ATSLPVQASSVPLPTFLVAGGSLAFGLLCAIAIVLRFKKTWKLKALKEGKTSMHPPYSLGQLVPERPRP
 TPVLVPLISPPVSPSSLGSDNTSSHNRPDARDPRSPYDISNTDYFFPR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000565

ORF Size: 1404 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_000565.2](#), [NP_000556.1](#)

RefSeq Size: 4176 bp

RefSeq ORF: 1407 bp

Locus ID: 3570

UniProt ID: [P08887](#)

Cytogenetics: 1q21.3

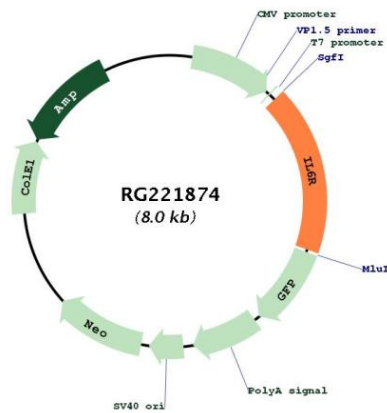
Domains: ig, IGc2, IG, FN3

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 RG221874