

Product datasheet for **RG206420**

IL3RA (NM_002183) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL3RA (NM_002183) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL3RA
Synonyms:	CD123; hIL-3Ra; IL3R; IL3RAY; IL3RX; IL3RY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206420 representing NM_002183 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCTCCTTTGGCTCAGCTGCTCCTGATCGCCCTGCCCTGTCTCCTGCAAACGAAGGAAGATCCAA
ACCCACCAATCACGAACCTAAGGATGAAAGCAAAGGCTCAGCAGTTGACCTGGGACCTTAACAGAAATGT
GACCGATATCGAGTGTGTTAAAGACGCCGACTATTCTATGCCGCGAGTGAACAATAGCTATTGCCAGTTT
GGAGCAATTTCTTATGTGAAGTGACCAACTACACCGTCCGAGTGGCCAACCCACCATTCTCCACGTGGA
TCCTCTTCCCTGAGAACAGTGGGAAGCCTTGGGCAGGTGCGGAGAATCTGACCTGCTGGATTTCATGACGT
GGATTTCTTGAGCTGCAGCTGGGCGGTAGGCCCGGGGCCCCCGGACGTCAGTACGACTGACTTGT
AACGTTGCCAACAGGCGTCAACAGTACGAGTGTCTTCACTACAAAACGGATGCTCAGGGAACACGTATCG
GGTGTCTGTTTCGATGACATCTCTCGACTCTCCAGCGGTTCTCAAAGTTCCACATCCTGGTGCAGGGGCGAG
GAGCGCAGCCTTCGGTATCCCCTGCACAGATAAGTTTGTCTTTCACAGATTGAGATATTAACCTCCA
CCCAACATGACTGCAAAGTGAATAAGACACATTCCTTTATGCACTGGAAAATGAGAAGTCATTTCAATC
GCAAATTTGCTATGAGCTTCAGATACAAAAGAGAATGCAGCCTGTAATCACAGAACAGGTCAGAGACAG
AACCTCCTCCAGCTACTCAATCCTGGAACGTACACAGTACAAAATAAGAGCCCGGAAAGAGTGTATGAA
TTCTTTGAGCGCCTGGAGCACCCCGAGCGCTTCGAGTGGCAGGAGGAGGGCGCAAACACACGTGCCT
GGCGGACGTGCTGTGATCGCGCTGGGGACGCTGCTGGCCCTGGTCTGTGTCTTCGTGATCTGCAGAA
GTATCTGGTGATGCAGAGACTCTTTCCCGCATCCCTCACATGAAAGACCCCATCGGTGACAGCTTCCAA
AACGACAAGCTGGTGGTCTGGGAGGCGGCAAAGCCGGCCTGGAGGAGTGTCTGGTACTGAAGTACAGG
TCGTGCAGAAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206420 representing NM_002183
 Red=Cloning site Green=Tags(s)

MVLLWL TLLLI ALPCLLQTKEDPNPPITNLRMKAKAQQLTWDLNRNVTDIECVKDADYSMPAVNNSYCQF
 GAISLCEVTNYTVRVANPPFSTWILFPENSGKPWAGAENLTCWIHDVDFLSCSWAVGPGAPADVQDLYL
 NVANRRQYECLEHYKTDAGQTRIGCRFDDISRLSSGSQSSHILVRGRSAAFGIPCTDKFVVFSQIEILTP
 PNMTAKCNKTHSFMHWKMRSHFNRFYELQIQKRMQPVITEQVRDRTSFQLLNPGTYTVQIRARERVYE
 FLSAWSTPQRFECDEEGANTRAWRTSLLI ALGTL LALVCVFVICRRYLVMQRLFPRI PHMKDPIGDSFQ
 NDKLVVWEAGKAGLEECLVTEVQVVQKT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002183

ORF Size: 1134 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_002183.4](#)

RefSeq Size: 1726 bp

RefSeq ORF: 1137 bp

Locus ID: 3563

UniProt ID: [P26951](#)

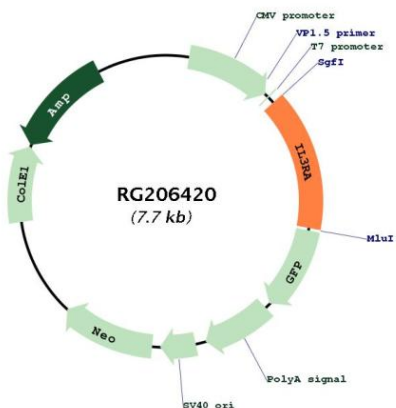
Cytogenetics: X;Y

Protein Families: Transmembrane

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

Gene Summary: The protein encoded by this gene is an interleukin 3 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 IL3 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL3. This gene and the gene encoding the colony stimulating factor 2 receptor alpha chain (CSF2RA) form a cytokine receptor gene cluster in a X-Y pseudoautosomal region on chromosomes X or Y. Alternatively spliced transcript variants encoding distinct isoforms have been found. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RG206420