

## Product datasheet for **RG234620**

### IL12RB2 (NM\_001258216) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL12RB2 (NM_001258216) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL12RB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234620 representing NM\_001258216  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCACATACTTTAGAGGATGCTCATTGGCATTATGTTTATAATCACGTGGCTGTTGATTAAGCAA  
 AAATAGATGCGTGCAAGAGAGGGCGATGTGACTGTGAAGCCTTCCCATGTAAATTTACTTGGATCCACTGT  
 CAATATTACATGCTCTTTGAAGCCAGACAAGGCTGCTTCACTATTCCAGACGTAACAAGTTAATCCTG  
 TACAAGTTTGACAGAAGAATCAATTTCCACATGGCCACTCCCTCAATTCTCAAGTCACAGGTCTTCCCC  
 TTGGTACAACCTTGTGTCTGCAAACCTGGCCTGTATCAATAGTGATGAAATTCAAATATGTGGAGCAGA  
 GATCTTCGTTGGTGTGCTCCAGAACAGCCTCAAATTTATCCTGCATACAGAAGGGAGAACAGGGGACT  
 GTGGCCTGCACCTGGGAAAGAGGACGAGACACCCACTTATACACTGAGTATACTCTACAGCTAAGTGGAC  
 CAAAAATTTAACCTGGCAGAAGCAATGTAAGACATTTATTGTGACTATTTGGACTTTGGAATCAACCT  
 CACCCCTGAATCACCTGAATCCAATTTACAGCCAAGTTACTGTGTCAATAGTCTTGGAACTCCTCT  
 TCACTTCCATCCACATTCACATTTGGACATAGTGAGGCCTTCTCCTCGTGGGACATTAGAATCAAAT  
 TTCAAAGGCTTCTGTGAGCAGATGTACCTTTATTGGAGAGATGAGGGACTGGTACTGCTTAATCGACT  
 CAGATATCGGCCAGTAACAGCAGGCTCTGGAATATGGTTAATGTTACAAAGGCCAAAGGAAGACATGAT  
 TTGCTGGATCTGAAACATTTACAGAATATGAATTTAGATTTCTCTAAGCTACATCTTTATAAGGGAA  
 GTTGGAGTGATTGGAGTGAATCATTGAGAGCACAAACACCAGAAGAAGAGCCTACTGGGATGTTAGATGT  
 CTGGTACATGAAACGGCACATTGACTACAGTAGACAACAGATTTCTTTTCTGGAAGAATCTGAGTGC  
 TCAGAGGCAAGAGGAAAAATTCCTCACTATCAGGTGACCTGCAGGAGCTGACAGGAGGGAAAGCCATGA  
 CACAGAACATCACAGGACACACCTCCTGGACCACAGTATTCTAGAACCGGAAATTTGGCTGTGGCTGT  
 GTCTGCAGCAAAATTCAAAAGGCAGTTCTCTGCCACTCGTATTAACATAATGAACCTGTGTGAGGCAGGG  
 TTGCTGGCTCCTCGCAGGTCTCTGCAAACCTCAGAGGCATGGACAACATTCTGGTGACTTGGCAGCCTC  
 CCAGGAAAGATCCCTCTGCTGTTCCAGGAGTACGTGGTGAATGGAGAGAGCTCCATCCAGGGGGTACAC  
 ACAGGTCCTCTAAACTGGCTACGGAGTCGACCTACAATGTGTCTGCTCTGATTTACAGAGAACATAAAA  
 TCCTACATCTGTTATGAAATCCGTGTGTATGCACTCTCAGGGGATCAAGGAGGATGCAGCTCCATCTGG  
 GTAACCTAAGCACAAGCACCCTGAGTGGCCCCACATTAATGCCATCACAGAGGAAAAGGGGAGCAT  
 TTTAATTTTATGGAACAGCATTCCAGTCCAGGAGCAAATGGGCTGCCTCCTCATTATAGGATATACTGG  
 AAGGAACGGGACTCCAACCTCCAGCCTCAGCTCTGTGAAATTCCTACAGAGTCTCCAAAATTCACATC  
 CAATAAACAGCCTGCAGCCCCGAGTGACATATGCTCTGTGGATGACAGCTCTGACAGCTGCTGGTGAAG  
 TTCCCACGGAAATGAGAGGGAATTTGTCTGCAAGGAGAAGACACAGCTGCCCTTGGACAGGCTCCTGAT  
 AGACTGGCCACGCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234620 representing NM\_001258216  
 Red=Cloning site Green=Tags(s)

MAHTFRGCSLAFMFIITWLLIKAKIDACKRGDVTVKPSHVILLGSTVNITCSLKPRQGCFFHYSRRNKLIL  
 YKFDRRINFHHGSLNSQVTGLPLGTTLVFCKLACINSDEIQICGAEIFVGVAPEQPQLNSCIQKGEQGT  
 VACTWERGRDTHLYTEYTLQLSGPKNLTWQKQCKDIYCDYLDGFINLTPESPESNFTAKVTAVNSLGS  
 SLPSTFTFLDIVRPLPPWDIRIKFQKASVSRCTLYWRDEGLVLLNRLRYRPSNSRLWNMNVNVTAKGRHD  
 LLDLKPFTYEFQISSKLHLKYGSWSDWSESLRAQTPEEEPTGMLDVWYMKRHIDYSRQQLSLFWKNLSV  
 SEARGKILHYQVTLQELTGGKAMTQNIHTGTSWTTVIPRTGNWAVAVSAANSKGSLLPTRINIMNLCEAG  
 LLAPRQVSANSEGMNILLVTWQPPRKDPQSAVQEVVVEWRELHPGGDTQVPLNWLRSRPNVNSALISENIK  
 SYICYEIRVYALSGDQGGCSSILNSKHKAPLSGPHINAIITEKGSILISWNSIPVQEQMGCLLHYRIYW  
 KERDSNSQPQLCEIPYRVSQNSHPINSLQPRVTVYVWMTALTAAGESHGNREFCLQGEDTAALGQAPD  
 RLAHA

**TRTRPLE** – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_001258216

ORF Size: 1905 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\\_001258216.1](#), [NP\\_001245145.1](#)

RefSeq Size: 3849 bp

RefSeq ORF: 1908 bp

Locus ID: 3595

UniProt ID: [Q99665](#)

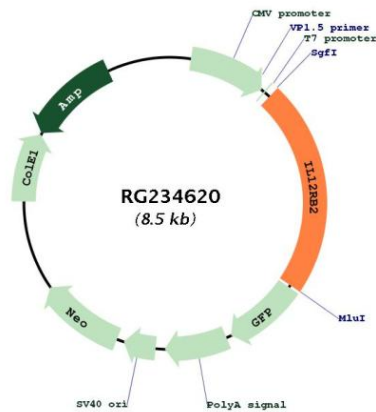
**Cytogenetics:** 1p31.3

**Protein Families:** Druggable Genome, Transmembrane

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

**Gene Summary:** The protein encoded by this gene is a type I transmembrane protein identified as a subunit of the interleukin 12 receptor complex. The coexpression of this and IL12RB1 proteins was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. The expression of this gene is up-regulated by interferon gamma in Th1 cells, and plays a role in Th1 cell differentiation. The up-regulation of this gene is found to be associated with a number of infectious diseases, such as Crohn's disease and leprosy, which is thought to contribute to the inflammatory response and host defense. Several transcript variants encoding different isoforms and non-protein coding transcripts have been found for this gene. [provided by RefSeq, Apr 2012]

**Product images:**



Circular map for RG234620