

Product datasheet for **RG234664**

IL12RB2 (NM_001258214) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL12RB2 (NM_001258214) 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:

>RG234664 representing NM_001258214
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACATACTTTAGAGGATGCTCATTGGCATTATGTTTATAATCACGTGGCTGTTGATTAAGCAA
 AAATAGATGCGTGCAAGAGAGGCGATGTGACTGTGAAGCCTTCCCATGTAAATTTACTTGGATCCACTGT
 CAATATTACATGCTCTTTGAAGCCAGACAAGGCTGCTTCACTATTCCAGACGTAACAAGTTAATCCTG
 TACAAGTTTGACAGAAGAATCAATTTTACCATGGCCACTCCCTCAATTCTCAAGTCACAGGTCTTCCCC
 TTGGTACAACCTTGTGTCTGCAAACTGGCCTGTATCAATAGTGATGAAATTCAAATATGTGGAGCAGA
 GATCTTCGTTGGTGTGCTCCAGAACAGCCTCAAATTTATCCTGCATACAGAAGGGAGAACAGGGGACT
 GTGGCCTGCACCTGGGAAAGAGGACGAGACACCCACTTATACACTGAGTATACTCTACAGCTAAGTGGAC
 CAAAAATTTAACCTGGCAGAAGCAATGTAAGACATTTATTGTGACTATTTGGACTTTGGAATCAACCT
 CACCCCTGAATCACCTGAATCCAATTTACAGCCAAGTTACTGTGTCAATAGTCTTGGAGCTCCTCT
 TCACTTCCATCCACATTCACATTCCTGGACATAGTGAGGCCTTCTCCTCGTGGGACATTAGAATCAAAT
 TTCAAAGGCTTCTGTGAGCAGATGTACCTTTATTGGAGAGATGAGGGACTGGTACTGCTTAATCGACT
 CAGATATCGGCCAGTAACAGCAGGCTCTGGAATATGGTTAATGTTACAAAGGCCAAAGGAAGACATGAT
 TTGCTGGATCTGAAACATTTACAGAATATGAATTTAGATTTCTCTAAGCTACATCTTTATAAGGGAA
 GTTGGAGTGATTGGAGTGAAATCATTGAGAGCACAAACACCAGAAGAAGAGCCTACTGGGATGTTAGATGT
 CTGGTACATGAAACGGCACATTGACTACAGTAGACAACAGATTTCTTTTTCTGGAAGAATCTGAGTGTC
 TCAGAGGCAAGAGGAAAAATTCCTCACTATCAGGTGACCTTGCAGGAGCTGACAGGAGGGAAAGCCATGA
 CACAGAACATCACAGGACACACCTCCTGGACCACAGTCATTCTAGAACCAGGAAATGGGCTGTGGCTGT
 GTCTGCAGCAAATTCAAAAGGCAGTTCTCTGCCACTCGTATTAACATAATGAACCTGTGTGAGGCAGGG
 TTGCTGGCTCCTCGCAGGTCTCTGCAAACTCAGAGGCATGGACAACATTCTGGTGACTTGGCAGCCTC
 CCAGGAAAGATCCCTCTGCTGTTCCAGGAGTACGTGGTGAATGGAGAGAGCTCCATCCAGGGGTGACAC
 ACAGGTCCTCTAAACTGGCTACGGAGTCGACCTACAATGTGTCTGCTCTGATTTAGAGAACATAAAA
 TCCTACATCTGTTATGAAATCCGTGTGTATGCACTCTCAGGGGATCAAGGAGGATGCAGCTCCATCCTGG
 GTAACCTAAGCACAAAGCACCCTGAGTGGCCCCACATTAATGCCATCACAGAGGAAAAGGGGAGCAT
 TTTAATTTTATGGAACAGCATTCCAGTCCAGGAGCAAATGGGCTGCCTCCTCATTATAGGATATACTGG
 AAGGAACGGGACTCCAACCTCCAGCCTCAGCTCTGTGAAATCCCTACAGAGTCTCCAAAATTCACATC
 CAATAAACAGCCTGCAGCCCCGAGTGACATATGTCCTGTGGATGACAGCTCTGACAGCTGCTGGTAAAAG
 TTCCCACGAAATGAGAGGGAATTTGTCTGCAAGGTAAGCCAATTGGATGGCCTTTGGGCACCAAGC
 ATTTGCATTGCTATCATCATGGTGGCATTCTTCAACGCATTACTTCCAGCAAAAAGAGAAGACACAGCT
 GCCCTTGGACAGGCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234664 representing NM_001258214
Red=Cloning site Green=Tags(s)

MAHTFRGCSLAFMFIITWLLIKAKIDACKRGDVTVKPSHVILLGSTVNITCSLKPRQGCFFHYSRRNKLIL
 YKFDRRINFHHGSLNSQVTGLPLGTTLFVCKLACINSDEIQICGAEIFVGVAPEQPQLSCIQKGEQGT
 VACTWERGRDTHLYTEYTLQLSGPKNLTWQKQCKDIYCDYLDGFINLTPESPESNFTAKVTAVNSLGSS
 SLPSTFFFLDIVRPLPPWDIRIKFQKASVSRCTLYWRDEGLVLLNRLRYRPSNSRLWNMNVNVTAKAGRHD
 LLDLKPFTEYEFQISSKLHLYKGSWSDWSESLRAQTPEEPTGMLDVWYMKRHIDYSRQQISLFWKNL SV
 SEARGKILHYQVTLQELTGGKAMTQNITGHTSWTTVIPRTGNWAVAVSAANSKGSLSLPTRINIMNLCEAG
 LLAPRQVSANSEGMDNILVTWQPPRKDPSAVQEYVVEWRELHPGGDTQVPLNWLRSRPNVNSALISENIK
 SYICYEIRVYALSGDQGGCSSILGNSKHKAPLSGPHINAITEEKGSILISWNSIPVQEQMGCLLHYRIYW
 KERDSNSQPQLCEIPYRVSQNSHPINSLQPRVTVLWMTALTAAGESSHGNEREFCLQGGKANWMAFVAPS
 ICIAIIMVGIFSTHYFQQKRRHSCPWTGS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001258214

ORF Size: 1977 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_001258214.1](#), [NP_001245143.1](#)

RefSeq Size: 4028 bp

RefSeq ORF: 1980 bp

Locus ID: 3595

UniProt ID: [Q99665](#)

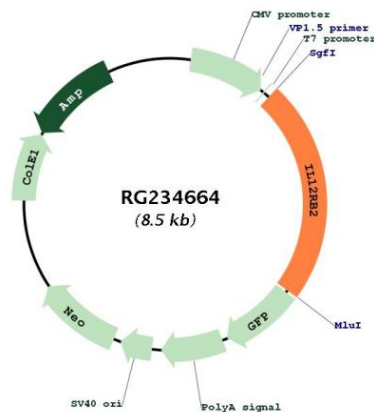
Cytogenetics: 1p31.3

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 RG234664