

Product datasheet for **SC332595**

IL12RB2 (NM_001258216) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL12RB2 (NM_001258216) Human Untagged Clone
Tag: Tag Free
Symbol: IL12RB2
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332595 representing NM_001258216.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCACATACTTTAGAGGATGCTCATTGGCATTATGTTTATAATCACGTGGCTGTTGATTAAGCA
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ACAGCTGCCCTTGGACAGGCTCCTGATAGACTGGCCACGCCTGA
  
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Restriction Sites: Sgfl-Mlul



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ACCN:	NM_001258216
Insert Size:	1908 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001258216.1</u>
RefSeq Size:	3849 bp
RefSeq ORF:	1908 bp
Locus ID:	3595
UniProt ID:	<u>Q99665</u>
Cytogenetics:	1p31.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
MW:	71.7 kDa

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]

Transcript Variant: This variant (4) lacks two alternate coding exons compared to variant 1, that causes a frameshift. The resulting isoform (d) has a shorter and distinct C-terminus compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.