

## Product datasheet for **RR217155**

### **Il12rb1 (NM\_001170604) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Il12rb1 (NM_001170604) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Il12rb1
Synonyms:	Il12rb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR217155 representing NM\_001170604  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACATGACGGGGCTGCCAGGGACCAGCAAGCACATCATCTTCTCTCTGCTTTGCCAGCTAAGCGCCT  
 CCAGCCGAGGTGACAGCTGCTGCGTTGAGAAGATATCATACCCAGATGAAGCCTCAGGCCCTCCTTAGG  
 ACCCAGGGACTTGAGCTGCTACAGGGTTCCGGGACAGACTATGAGTGCTCCTGGCAGTATGATGGCCCT  
 GAGGACAAATGTTGCTCACTTCTGTGGTCTGCTTTGCTCATCCAAACCTACCCACACCAGCTTTGGCC  
 AAGAATGCTGCTGCTACTTCTTCCGGGCCGGTCTCGGACTGTGCAGTTCTGGAAACAGGATGGTATCTC  
 TACGTTGTCCAAGGTCAACTTCTGGGTCGAGTCTCGGCTTGGAAACAGGACCTTGAAGTCTCAGGAGATA  
 TCGCAGTACCTGTACAACGGACCAAGCTCACCCCTCTCTGGGACACATCAGAGTGTACGATCACGCG  
 GGGAGTTGCGAATGGACTGGAATGTGTCGGATGGGGCCGGTCTGAGGTACAACAGGGCCCGGATGCC  
 CACAACGAATTGGACCTGGGTGACTGCGGACCTCAGGTTAGCTCTGGCTTAGGTGTGATTGGTGACATT  
 CACGGTAGCAGTTCTGAGTCTGCTCTGCCCTCTGAGAACATGGCCAGGAAATCCAGATACGGAGAC  
 GCGCGGCCCTCTCTCAGGAGCTCCTGGAGTCCCTGGAGTAATTGGAGCATGTCTGTGTGTGCCCGCC  
 TGAATTCCTCCCCAGGCTGAGATTAAGTTCCTGGTGGAGCCCTGAACCAAGATGGAAGGAGGCGTCTG  
 ACTATGGAAGGGCAGACACCACAGCTGGCAGTCCCGGAGGGTGCAGGGACCGCCCTGGGGCGCAGGTGA  
 AGAAGCACTTGGTGTGGTGCACATGCTGGCCTGCAGGTGCCAGGCTCGGACCTGGAAGACCGTGCCCT  
 GGGCAAGACGCTGGACCTCTCCGGTGCCGCTACGACCTGGATGTACTCGCCAGACTCGCTTCGGCCGC  
 AGCATCATCCAGAAGTGCCCTTCTGCCAAGAGCTCACAGAGACAAGAACCCTGAATGTCATCGTGG  
 AAGGCAACGTGACATCCATGCAAGTGGGACGCCAGCCTCCAGGCACTGCCTACTGCCTTGAATGGCAGCT  
 ATGGGGCCAGGACAGGAACCACACGACTGTACTCTGATTGCACCAGAAGAAGAGGACCCAGCCAAGATG  
 GTGACGCACACCTGGAGCTCCAAGCCTACCCTGGACCAGGAGGAATGTTACCGCATCACTGTCTTCGCT  
 CCAAGAACCCCAAGAATCCCATGATGTGGGCCACGGTCTGTCCAGTTACTACTTTGGGGTAACGTCTC  
 AAGGGTCGGAACCCACGCCACGTGTGGTGGGAACCACACCGAGGACTCAGTGTCCGTGGAGTGGACA  
 GCGTCACAGCTGAGCACCTGCCAGGGTCTGACGCAATACGTCGTGCGCTGCGAGGCTGAAGATGGCA  
 CGTGGGAGTCAGAGTTGCTCGTGCCACCCACGAAGACCCAAGTGACACTAACAGTCTGCGCAGCCGCT  
 GGTGTACAAGGTTCAAGTGGGAGCTGACTGCGATGCTCCAGGCTCCTGGAGCCGTCCCAGCGCTTC  
 AGCGTTGAGGTGCAGATTTCCGTTTATCCATCGTTTTTCGCTCTCTGGGAAGCTTCGCCAGCGTCTCC  
 TCGTGGGACGTCTCGGATACATTGGCTTAACAGGGCTGCCTGGCACTTGTGCCACCTCTGCCTACGCC  
 CTGTGGCAGCACTGCTGTGGAGTTCCTGGCAGCCAGGACAAGCAGGCTTGGCAATGGCGCAACCCTGAG  
 GACTTCCCCGAGGTGTTGTACCCACGAGACGCGCTGGTGGTGGAGATGCCAGGGACAGAGATGATGAGA  
 CAGAGTCGCCCCAGGCCACCCCTGAGCGCGCCCTGGACACAAGGTGGCCCTTGGGAACTGAGGGGCAGGT  
 GCAAGGACTCTCAGAGGCCAGGCTCCCGGACCTGGCTAGAGAGGACTGTCCCGTGGTGACCTGGCCAC  
 GTGACACTCCCGCTGCTCCTGGGAGATGTACCCAGGGAGCCTCGGTACTTGGTGATCTTTGGTGGATCC  
 ATAAGACCGTGGAGCCAGGACCCCACTTTGGGTCAAGAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217155 representing NM\_001170604  
Red=Cloning site Green=Tags(s)

```
MDMTGLPGTSKHIIIFLLLCQLSASSRGDSCCVEKISYPDEASGPSLGPRDLSCYRVSGTDYECWQYDGP
EDNVAHFLWCCFAHPNPTHTSFGQECCCYFSSGRSRTVQFWEQDGI STL SKVNFVWESRLGNRTLK SQEI
SQLYLNWTKLTPPLGHIRVSRSRGELRMDWNVSDGAGAEVQLRRRMPPTNWTLGDCGPQVSSGLGVIGDI
HGSSSECLCPSENMAQEIQIRRRRRLSSGAPGGPWSNWSMSVCVPPEFLPQAEIKFLVEPLNQDGRRL
TMEGQTPQLAVPEGCRDRPGAQVKKHLVLVHMLACRCQARTWKTVP L GKTLDL SGAA YDL DVLAQTRFGR
SIIQKWPLPAQELTETRNLNVI VEGNVTSMQWAAQPPGTAYCLEWQPWQDRNHTDCTLIAPEEEDPAKM
VHTWSSKPTLDQE EYRITVFASKNPKNPMWATV LSSYF GGNVSRVGT PRHVSVRNHTEDSVSVEWT
ASQLSTCPGVL TQYVVRCEAEDGTWSELLVPPTKTQVTLNSLSRVVYVQVRADTAMLPGSWSRPQRF
SVEVQISRLSIVFASLGSFASVLLVGS LGYIGLNRAAWHLCPPLPTPCGSTAVEFPGSQDKQAWQWRNPE
DFPEVLYPRDALV VEMPRDRDDETESPQATPERALDTRWPLGTEGQVQGLSEARLPDLAREDCPRGDLAH
VTLPLLLGDVTQGASVLGDLWWIHKTV EPGPPTLGQEA
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001170604

**ORF Size:** 2214 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\\_001170604.1](#), [NP\\_001164075.1](#)

**RefSeq Size:** 2217 bp

**RefSeq ORF:** 2217 bp

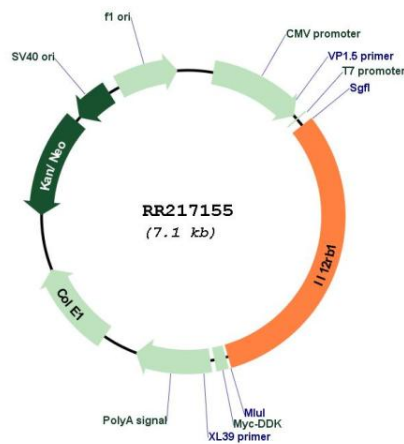
**Locus ID:** 171333

**Cytogenetics:** 16p14

**MW:** 82.1 kDa

**Gene Summary:** transmembrane protein that belongs to the hemopoietin receptor superfamily; human homolog binds interleukin (IL)12 with a low affinity and may be a part of the IL12 receptor complex [RGD, Feb 2006]

**Product images:**



Circular map for RR217155