

## Product datasheet for RC219095

### IL22 RA2 (IL22RA2) (NM\_181309) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL22 RA2 (IL22RA2) (NM_181309) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL22RA2
Synonyms:	CRF2-10; CRF2-S1; CRF2X; IL-22BP; IL-22R-alpha-2; IL-22RA2; ZCYTOR16
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC219095 representing NM_181309 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGCCTAAACATTGCTTTCTAGGCTTCCTCATCAGTTTCTTCCTTACTGGTGTAGCAGGAACCTCAGT  
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ACATACAGGAACCTTATTACGGGAGGGTGAGGGCGGCCTCGGCTGGGAGCTACTCAGAATGGAGCATGAC  
GCCCGGTTCACTCCCTGGTGGGAAACAAAATAGATCCTCCAGTCATGAATATAACCCAAGTCAATGGC  
TCTTTGTTGGTAATTCTCCATGCTCCAAATTTACCATATAGATACCAAAGGAAAAAATGTATCTATAG  
AAGATTACTATGAACTACTATACCGAGTTTTTATAATTAACAATCACTAGAAAAGGAGCAAAAGGTTTA  
TGAAGGGGCTCACAGAGCGGTTGAAATTGAAGCTTAACACCACACTCCAGCTACTGTGTAGTGGCTGAA  
ATATATCAGCCCATGTTAGACAGAAGAAGTCAGAGAAGTGAAGAGAGATGTGTGGAATTTCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC219095 representing NM\_181309  
 Red=Cloning site Green=Tags(s)

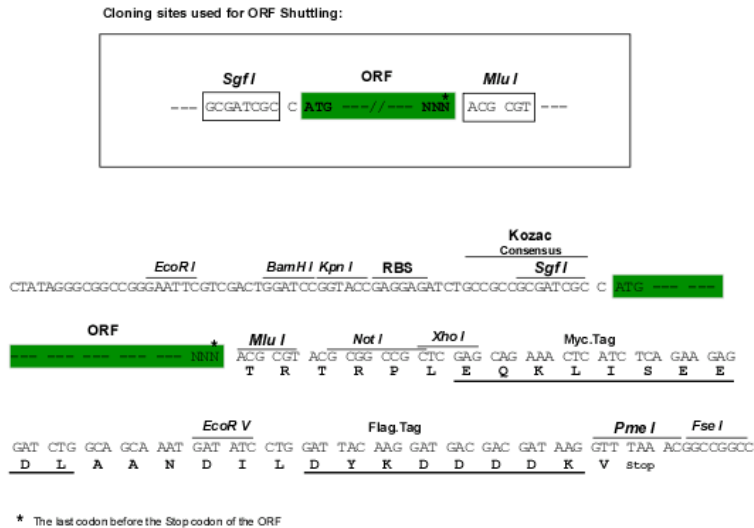
MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIYGQR  
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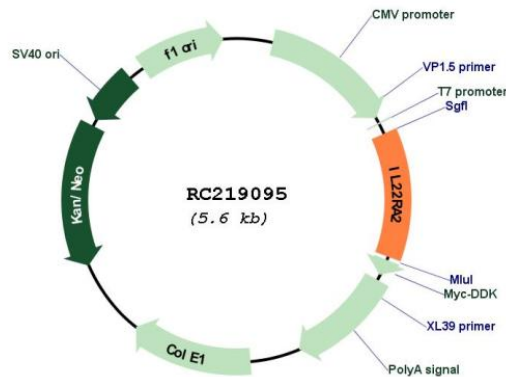
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6115\\_b08.zip](https://cdn.origene.com/chromatograms/mk6115_b08.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_181309

**ORF Size:** 693 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_181309.2](#)

**RefSeq Size:** 2814 bp

**RefSeq ORF:** 696 bp

**Locus ID:** 116379

**UniProt ID:** [Q969J5](#)

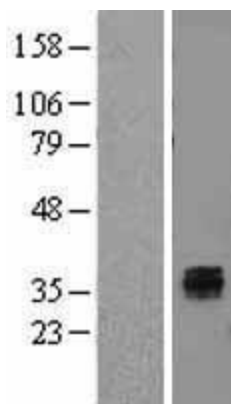
**Cytogenetics:** 6q23.3

**Protein Families:** Druggable Genome, Secreted Protein

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

**MW:** 26.8 kDa

**Gene Summary:** This gene encodes a member of the class II cytokine receptor family. The encoded soluble protein specifically binds to and inhibits interleukin 22 activity by blocking the interaction of interleukin 22 with its cell surface receptor. The encoded protein may be important in the regulation of inflammatory response, and has been implicated in the regulation of tumorigenesis in the colon. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2013]

**Product images:**

Western blot validation of overexpression lysate (Cat# [LY403617]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219095 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).