

Product datasheet for RG219095

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

IL22 RA2 (IL22RA2) (NM_181309) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: IL22 RA2

Synonyms: CRF2-10; CRF2-S1; CRF2X; IL-22BP; IL-22R-alpha-2; IL-22RA2; ZCYTOR16

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG219095 representing NM_181309

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGATGCCTAAACATTGCTTTCTAGGCTTCCTCATCAGTTTCTTCCTTACTGGTGTAGCAGGAACTCAGT
CAACGCATGAGTCTCTGAAGCCTCAGAGGGTACAATTTCAGTCCCGAAAATTTTCACAACATTTTGCAATG
GCAGCCTGGGAGGGCACTTACTGGCAACAGCAGTGTCTATTTTGTGCAGTACAAAAATATATGGACAGAGA
CAATGGAAAAATAAAGAAGACTGTTGGGGTACTCAAGAACTCTCTTGTGACCTTACCAGTGAAACCTCAG
ACATACAGGAACCTTATTACGGGAGGGTGAGGGCGGCCTCGGCTGGGAGCTACTCAGAATGGAGCATGAC
GCCGCGGTTCACTCCCTGGTGGGAAACAAAAATAGATCCTCCAGTCATGAATATAACCCAAGTCAATGGC
TCTTTGTTGGTAATTCTCCATGCTCCAAATTTACCATATAGATACCAAAAAGGAAAAAAATGTATCTATAG
AAGATTACTATGAACTACTATACCGAGTTTTATAATTAACAATTCACTAGAAAAGGAGCAAAAGGTTTA
TGAAGGGGCTCACAGAGCGGTTGAAATTGAAGCTCTAACACCACACTCCAGCTACTGTGTAGTGGCTGAA
ATATATCAGCCCATGTTAGACAGAAAGAAGTCAGAGAAAGTGAAGAGAGATTCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219095 representing NM_181309

Red=Cloning site Green=Tags(s)

MMPKHCFLGFLISFFLTGVAGTQSTHESLKPQRVQFQSRNFHNILQWQPGRALTGNSSVYFVQYKIYGQR QWKNKEDCWGTQELSCDLTSETSDIQEPYYGRVRAASAGSYSEWSMTPRFTPWWETKIDPPVMNITQVNG SLLVILHAPNLPYRYQKEKNVSIEDYYELLYRVFIINNSLEKEQKVYEGAHRAVEIEALTPHSSYCVVAE

IYQPMLDRRSQRSEERCVEIP

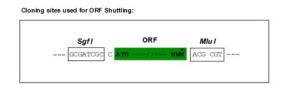
TRTRPLE - GFP Tag - V

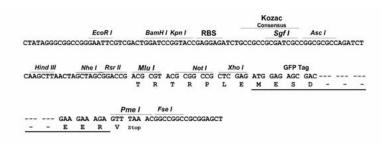


Restriction Sites:

Sqfl-Mlul

Cloning Scheme:





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 customer.care team at <a href="mailto:customer.ca

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).



IL22 RA2 (IL22RA2) (NM_181309) Human Tagged ORF Clone | RG219095

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um

filter is required.

RefSeq: <u>NM_181309.2</u>

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

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

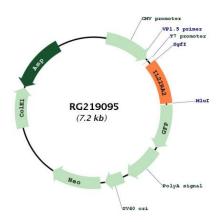
regulation of inflammatory response, and has been implicated in the regulation of

tumorigenesis in the colon. Alternative splicing results in multiple transcript variants encoding

distinct isoforms. [provided by RefSeq, Jul 2013]



Product images:



Circular map for RG219095