*m*IL-21R VersaClone cDNA

Catalog Number: RDC1511

Specifications:

Gene:	*m*Il21r
Accession:	NP_068687
Insert size:	1603bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

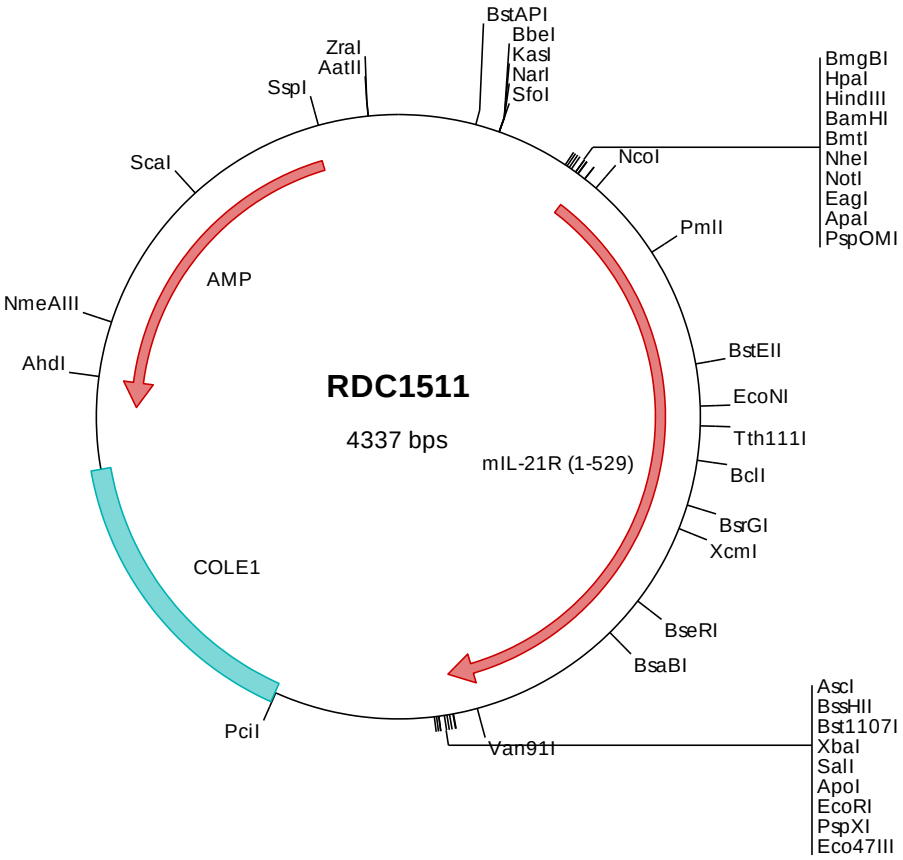
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*IL-21R cDNA Plasmid

Il21r interleukin 21 receptor
[*Mus musculus* (house mouse)]

Also known as: NILR

Summary:
IL21R is a cytokine receptor for interleukin 21 (IL21). It belongs to the type I cytokine receptors, and forms a heterodimeric receptor complex with the common gamma-chain, a receptor subunit also shared by the receptors for interleukin 2, 4, 7, 9, and 15. IL21R transduces the growth promoting signal of IL21, and is important for the proliferation and differentiation of T cells, B cells, and natural killer (NK) cells. The ligand binding of IL21R leads to the activation of multiple downstream signaling molecules, including JAK1, JAK3, STAT1, and STAT3.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

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> RDC1511 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgccacggg gcccagtggc tgccttactc ctgctgattc tccatggagc
 501  ttggagctgc ctggacctca cttgctacac tgactacctc tggaccatca cctgtgtcct ggagacacgg agccccaacc ccagcatact cagtctcacc
 601  tggcaagatg aatatgagga acttcaggac caagagacct tctgcagcct acacaggtct ggccacaaca ccacacatat atggtacacg tgccatatgc
 701  gcttgtctca attcctgtcc gatgaagttt tcattgtcaa tgtgacggac cagtctggca acaactccca agagtgtggc agctttgtcc tggctgagag
 801  catcaaacca gctccccccct tgaacgtgac tgtggcttc tcaggacgct atgatatctc ctgggactca gcttatgacg aaccctccaa ctacgtgctg
 901  aggggcaagc tacaatatga gctgcagtat cggaacctca gagaccccta tgctgtgagg ccggtgacca agctgatctc agtggactcg agaaacgtct
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1201  ttcatgggtc tgaagatcca cctgccttgg aggctatgga aaaagatatg ggcaccagtg cccacccctg agagtttctt ccagcccctg tacagggagc
1301  acagcgggaa cttcaagaaa tgggttaata ccccttccac ggcctccagc atagagttgg tgccacagag ttccacaaca acatcagcct tacatctgtc
1401  attgtatcca gccaaggaga agaagttccc ggggctgccg ggtctggaag agcaactgga gtgtgatgga atgtctgagc ctggtcactg gtgcataatc
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1601  gcctgtgtgt ctggccctgt agctgtgagg atgatggcta tccagccatg aacctggatg ctggcagaga gtctggtcct aattcagagg atctgctctt
1701  ggtcacagac cctgcttttc tgtcttgtgg ctgtgtctca ggtagtggtc tcaggcttgg gggctcccca ggcagcctac tggacaggtt gaggctgtca
1801  tttgcaaagg aaggggactg gacagcagac ccaacctgga gaactgggtc cccaggaggg ggctctgaga gtgaagcagg ttcccccccct ggtctggaca
1901  tggacacatt tgacagtggc tttgcaggtt cagactgtgg cagccccgtg gagactgatg aaggaccccc tcgaagctat ctccgccagt gggtggtcag
2001  gacccctcca cctgtggaca gtggagccca gagcagctaa aggcgcgcca gtatactcta gagtcgacac ccggggaatt cctcgagcgc tcgtctctag
2101  cttggcgtaa tcatggtcat agctgtttcc tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa gcataaagtg taaagcctgg
2201  ggtgcctaat gagtgagcta actcacatta attgcgttgc gctcactgcc cgctttccag tcgggaaacc tgtcgtgcca gctgcattaa tgaatcggcc
2301  aacgcgcggg gagaggcggt ttgcgtattg ggcgctcttc cgcttcctcg ctcactgact cgctgcgctc ggtcgttcgg ctgcggcgag cggtatcagc
2401  tcactcaaag gcggtaatac ggttatccac agaatcaggg gataacgcag gaaagaacat gtgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag
2501  gccgcgttgc tggcgttttt ccataggctc cgcccccctg acgagcatca caaaaatcga cgctcaagtc agaggtggcg aaacccgaca ggactataaa
2601  gataccaggc gtttcccccc ggaagctccc tcgtgcgctc tcctgttccg accctgccgc ttaccggata cctgtccgcc tttctccctt cgggaagcgt
2701  ggcgctttct caatgctcac gctgtaggta tctcagttcg gtgtaggtcg ttcgctccaa gctgggctgt gtgcacgaac cccccgttca gcccgaccgc
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3001  cggaaaaaga gttggtagct cttgatccgg caaacaaacc accgctggta gcggtggttt ttttgtttgc aagcagcaga ttacgcgcag aaaaaaagga
3101  tctcaagaag atcctttgat cttttctacg gggtctgacg ctcagtggaa cgaaaactca cgttaaggga ttttggtcat gagattatca aaaaggatct
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3301  acctatctca gcgatctgtc tatttcgttc atccatagtt gcctgactcc ccgtcgtgta gataactacg atacgggagg gcttaccatc tggccccagt
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3501  tatccgcctc catccagtct attaattgtt gccgggaagc tagagtaagt agttcgccag ttaatagttt gcgcaacgtt gttgccattg ctacaggcat
3601  cgtggtgtca cgctcgtcgt ttggtatggc ttcattcagc tccggttccc aacgatcaag gcgagttaca tgatccccca tgttgtgcaa aaaagcggtt
3701  agctccttcg gtcctccgat cgttgtcaga agtaagttgg ccgcagtgtt atcactcatg gttatggcag cactgcataa ttctcttact gtcatgccat
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3901  taataccgcg ccacatagca gaactttaaa agtgctcatc attggaaaac gttcttcggg gcgaaaactc tcaaggatct taccgctgtt gagatccagt
4001  tcgatgtaac ccactcgtgc acccaactga tcttcagcat cttttacttt caccagcgtt tctgggtgag caaaaacagg aaggcaaaat gccgcaaaaa
4101  agggaataag ggcgacacgg aaatgttgaa tactcatact cttcctttttt caatattatt gaagcattta tcagggttat tgtctcatga gcggatacat
4201  atttgaatgt atttagaaaa ataaacaaat aggggttccg cgcacatttc cccgaaaagt gccacctgac gtctaagaaa ccattattat catgacatta
4301  acctataaaa ataggcgtat cacgaggccc tttcgtc
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> RDC1511 Translated Insert Sequence

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 101  qsgnnsqecg sfvlaesikp applnvtvaf sgrydiswds aydepsnyvl rgklqyelqy rnlrdpyavr pvtklisvds rnvsllpeef hkdssyqlqv
 201  raapqpgtsf rgtwsewsdp vifqtqagep eagwdphmll llavliivlv fmglkihlpw rlwkkiwapv ptpesffqpl yrehsgnfkk wvntpftass
 301  ielvpqsstt tsalhlslyp akekkfpglp gleeqlecdg msepghwcii plaagqavsa yseerdrpyg lvsidtvtvg daeglcvwpc sceddgypam
 401  nldagresgp nsedlllvtd paflscgcvs gsglrlggsp gslldrlrls fakegdwtad ptwrtgspgg gseseagspp gldmdtfdsg fagsdcgspv
 501  etdegpprsy lrqwvvrtpp pvdsgaqss
```