# *cyno*IL-1 alpha/IL-1F1 VersaClone cDNA

**Catalog Number: RDC3303**

## Specifications:

| | |
|---|---|
| Gene: | *cyno*IL1A |
| Accession: | NP_001271109.1 |
| Insert size: | 829bp |
| 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.

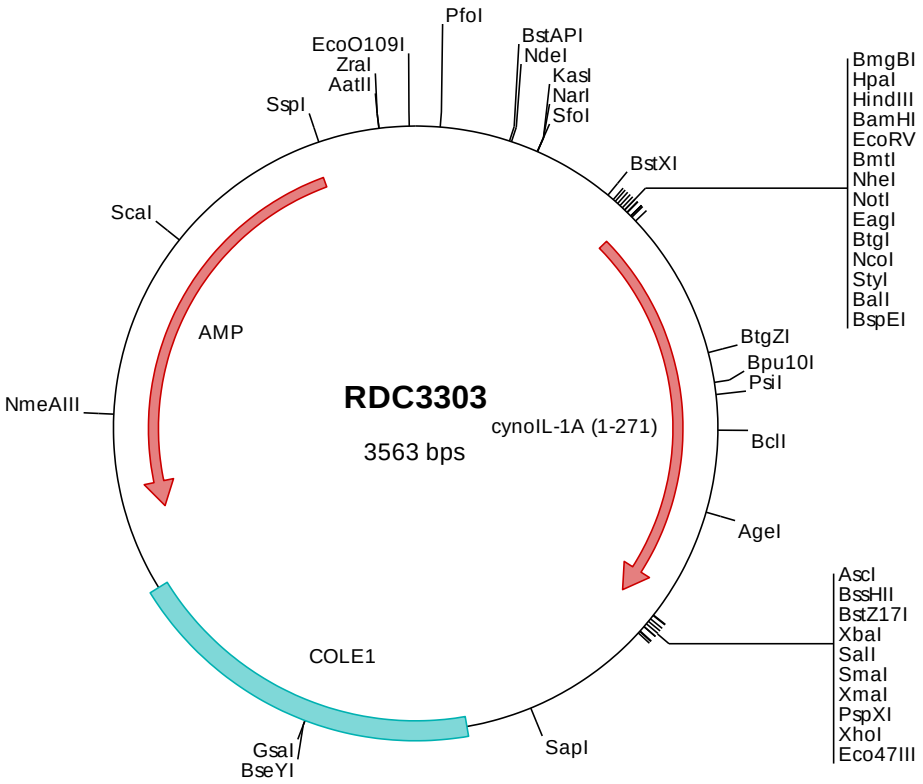
## Preparation and Storage

| | |
|---|---|
| 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. |

# *cyno*IL-1 alpha/IL-1F1 cDNA Plasmid

**IL1A interleukin 1 alpha**
**[ *Macaca fascicularis* (crab-eating macaque) ]**


**Summary:**
IL-1A is a member of the interleukin 1 cytokine family. It is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. IL-1A is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. It has been suggested that the polymorphism of IL-1A is associated with rheumatoid arthritis and Alzheimer's disease.


FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
a bio-techne brand

## > RDC3303 Plasmid DNA Sequence

```
   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 atggccaaag ttccggacat gtttgaagac ctgaagaact gttacagtga
 501  aaatgaagaa gacagttcct ccattgacca tctgtctctg aatcagaaat ccttctatga tgtaagctat ggcctactcc atgaaggctg catggatcag
 601  tctgtgtctc tgagtatctc tgaaatctct aaaacatcca agctgacctt caagcagagc atggtggtag tatcaaccaa tgggaaggtt ctgaagaaga
 701  gacggttgag tttaagccag tccatcactg ataataacct ggaggccatc gccaacgact cagaggaaga aatcatcaag cccaggtcgg caccttttag
 801  cttcctaagc aatatgacat accactttat aaggatcatc aaacacgaat tcatcctgaa tgacaccctc aatcaaacta taattcgagc caatgatcag
 901  tacctcacgg ctgctgcaat acataatctg gatgaagcag tgaaatttga catgggtgct tatacgtcat caaaggatga tactaaagtt cctgtgattc
1001  taagaatctc aaaaactcaa ttgtatgtga gtgcccaaga tgaagaccaa ccggtgctgc tgaaggagat gcctgagata cccaaaacca tcacaggtag
1101  tgagaccaac ttcctcttct tctgggaaac tcatggcact aagaactact tcatatcagt tgcccatcca aacttgttta ttgccacaaa gcatgacaat
1201  tgggtgtgct tggcaaaggg gctaccctct atcactgact ttcagatact ggaaaaccag gcttaaaggc gcgccagtat actctagagt cgacacccgg
1301  ggaattcctc gagcgctcgt ctctagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag
1401  ccggaagcat aaagtgtaaa gcctggggtg cctaatgagt gagctaactc acattaattg cgttgcgctc actgcccgct ttccagtcgg gaaacctgtc
1501  gtgccagctg cattaatgaa tcggccaacg cgcggggaga ggcggtttgc gtattgggcg ctcttccgct tcctcgctca ctgactcgct gcgctcggtc
1601  gttcggctgc ggcgagcggt atcagctcac tcaaaggcgg taatacggtt atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc
1701  agcaaaaggc caggaaccgt aaaaaggccg cgttgctggc gtttttccat aggctccgcc cccctgacga gcatcacaaa aatcgacgct caagtcagag
1801  gtggcgaaac ccgacaggac tataaagata ccaggcgttt ccccctggaa gctccctcgt gcgctctcct gttccgaccc tgccgcttac cggatacctg
1901  tccgcctttc tcccttcggg aagcgtggcg ctttctcaat gctcacgctg taggtatctc agttcggtgt aggtcgttcg ctccaagctg ggctgtgtgc
2001  acgaaccccc cgttcagccc gaccgctgcg ccttatccgg taactatcgt cttgagtcca acccggtaag acacgactta tcgccactgg cagcagccac
2101  tggtaacagg attagcagag cgaggtatgt aggcggtgct acagagttct tgaagtggtg gcctaactac ggctacacta gaaggacagt atttggtatc
2201  tgcgctctgc tgaagccagt taccttcgga aaaagagttg gtagctcttg atccggcaaa caaaccaccg ctggtagcgg tggttttttt gtttgcaagc
2301  agcagattac gcgcagaaaa aaaggatctc aagaagatcc tttgatcttt tctacggggt ctgacgctca gtggaacgaa aactcacgtt aagggatttt
2401  ggtcatgaga ttatcaaaaa ggatcttcac ctagatcctt ttaaattaaa aatgaagttt taaatcaatc taaagtatat atgagtaaac ttggtctgac
2501  agttaccaat gcttaatcag tgaggcacct atctcagcga tctgtctatt tcgttcatcc atagttgcct gactccccgt cgtgtagata actacgatac
2601  gggagggctt accatctggc cccagtgctg caatgatacc gcgagaccca cgctcaccgg ctccagattt atcagcaata aaccagccag ccggaagggc
2701  cgagcgcaga agtggtcctg caactttatc cgcctccatc cagtctatta attgttgccg ggaagctaga gtaagtagtt cgccagttaa tagtttgcgc
2801  aacgttgttg ccattgctac aggcatcgtg gtgtcacgct cgtcgtttgg tatggcttca ttcagctccg gttcccaacg atcaaggcga gttacatgat
2901  cccccatgtt gtgcaaaaaa gcggttagct ccttcggtcc tccgatcgtt gtcagaagta agttggccgc agtgttatca ctcatggtta tggcagcact
3001  gcataattct cttactgtca tgccatccgt aagatgcttt tctgtgactg gtgagtactc aaccaagtca ttctgagaat agtgtatgcg gcgaccgagt
3101  tgctcttgcc cggcgtcaat acgggataat accgcgccac atagcagaac tttaaaagtg ctcatcattg gaaaacgttc ttcggggcga aaactctcaa
3201  ggatcttacc gctgttgaga tccagttcga tgtaacccac tcgtgcaccc aactgatctt cagcatcttt tactttcacc agcgtttctg ggtgagcaaa
3301  aacaggaagg caaaatgccg caaaaaaggg aataagggcg acacggaaat gttgaatact catactcttc ctttttcaat attattgaag catttatcag
3401  ggttattgtc tcatgagcgg atacatattt gaatgtattt agaaaaataa acaaatagggg gttccgcgca catttccccg aaaagtgcca cctgacgtct
3501  aagaaaccat tattatcatg acattaacct ataaaaatag gcgtatcacg aggccctttc gtc
```

## > RDC3303 Translated Insert Sequence

```
  1  makvpdmfed lkncysenee dsssidhlsl nqksfydvsy gllhegcmdq svslsiseis ktskltfkqs mvvvstngkv lkkrrlslsq sitdnnleai
101  andseeeiik prsapfsfls nmtyhfirii khefilndtl nqtiirandq yltaaaihnl deavkfdmga ytsskddtkv pvilrisktq lyvsaqdedq
201  pvllkempei pktitgsetn flffwethgt knyfisvahp nlfiatkhdn wvclakglps itdfqilenq a
```