*m*TLR8 VersaClone cDNA

Catalog Number: RDC0786

Specifications:

Gene:	*m*TLR8
Accession:	NP_573475
Insert size:	3112bp
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

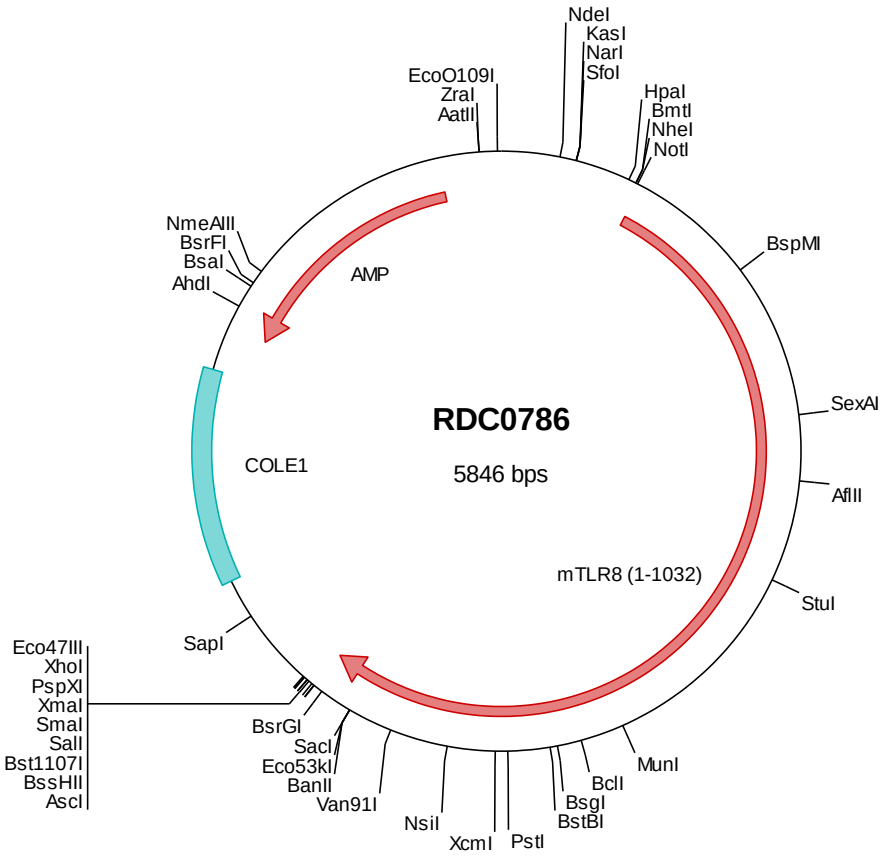
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*TLR8 cDNA Plasmid

Tlr8 toll-like receptor 8 [*Mus musculus* (house mouse)]

Summary:

Toll-like receptors (TLR) sense a variety of microbial products and play an important role in the mounting of innate and adaptive immune responses. Murine TLR8 does not appear to respond to human TLR7/8 agonists. It may be stimulated by alternate ligands, which include vaccinia virus DNA, phosphothioate oligodeoxynucleotides (ODNs) or the combination of phosphothioate poly-thymidine oligonucleotides (pT-ODNs) with TLR7/8 agonists. TLR8 is involved in the regulation of TLR7-mediated autoimmunity in the mouse.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0786 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 atggagaaca tgccccctca gtcatggatt ctgacgtgct tttgtctgct
 501  gtcctctgga accagtgcca tcttccataa agcgaactat tccagaagct atccttgtga cgagataagg cacaactccc ttgtgattgc agaatgcaac
 601  catcgtcaac tgcatgaagt tccccaaact ataggcaagt atgtgacaaa catagacttg tcagacaatg ccattacaca tataacgaaa gagtcctttc
 701  aaaagctgca aaacctcact aaaatcgatc tgaaccacaa tgccaaacaa cgcacccaa atgaaaataa aaatggtatg aatattacag aaggggcact
 801  tctcagccta agaaatctaa cagttttact gctggaagac aaccagttat atactatacc tgctgggttg cctgagtctt tgaaagaact tagcctaatt
 901  caaaacaata tatttcaggt aactaaaaac aacacttttg ggcttaggaa cttggaaaga ctctatttgg gctggaactg ctattttaaa tgtaatcaaa
1001  cctttaaggt agaagatggg gcatttaaaa atcttatata cttgaaggta ctctcattat ctttcaataa ccttttctat gtgcccccca aactaccaag
1101  ttctctaagg aaacttttttc tgagtaatgc caaaatcatg aacatcactc aggaagactt caaaggactg gaaaatttaa cattactaga tctgagtgga
1201  aactgtccaa ggtgttacaa tgctccattt ccttgcacac cttgcaagga aaactcatcc atccacatac atcctctggc ttttcaaagt ctcacccaac
1301  ttctctatct aaacctttcc agcacttccc tcaggacgat tccttctacc tggtttgaaa atctgtcaaa tctgaaggaa ctccatcttg aattcaacta
1401  tttagttcaa gaaattgcct cgggggcatt tttaacaaaa ctacccagtt tacaaatcct tgatttgtcc ttcaactttc aatataagga atatttacaa
1501  tttattaata tttcctcaaa tttctctaag cttcgttctc tcaagaagtt gcacttaaga ggctatgtgt tccgagaact taaaaagaag catttcgagc
1601  atctccagag tcttccaaac ttggcaacca tcaacttggg cattaacttt attgagaaaa ttgatttcaa agctttccag aatttttcca aactcgacgt
1701  tatctattta tcaggaaatc gcatagcatc tgtattagat ggtacagatt attcctcttg gcgaaatcgt cttcggaaac ctctctcaac agacgatgat
1801  gagtttgatc cacacgtgaa tttttaccat agcaccaaac ctttaataaa gccacagtgt actgcttatg gcaaggcctt ggatttaagt ttgaacaata
1901  ttttcattat tgggaaaagc caatttgaag gttttcagga tatcgcctgc ttaaatctgt ccttcaatgc caatactcaa gtgttaataa gcacagaatt
2001  ctcctccatg ccccacatta aatatttgga tttaaccaac aacagactag actttgatga taacaatgct ttcagtgatc ttcacgatct agaagtgctg
2101  gacctgagcc acaatgcaca ctatttcagt atagcagggg taacgcaccg tctaggattt atccagaact taataaacct cagggtgtta aacctgagcc
2201  acaatggcat ttacaccctc acagaggaaa gtgagctgaa aagcatctca ctgaaagaat tggttttcag tggaaatcgt cttgaccgtt tgtggaatgc
2301  aaatgatggc aaatactggt ccatttttaa aagtctccag aatttgatac gcctggactt atcatacaat aaccttcaac aaatcccaaa tggagcattc
2401  ctcaatttgc ctcagagcct ccaagagtta cttatcagtg gtaacaaatt acgtttcttt aattggacat tactccagta ttttcctcac cttcacttgc
2501  tggatttatc gagaaatgag ctgtattttc tacccaattg cctatctaag tttgcacatt ccctggagac actgctactg agccataatc atttctctca
2601  cctaccctct ggcttcctct ccgaagccag gaatctggtg cacctggatc taagtttcaa cacaataaag atgatcaata aatcctccct gcaaaccaag
2701  atgaaaacga acttgtctat tctggagcta catgggaact attttgactg cacgtgtgac ataagtgatt ttcgaagctg gctagatgaa aatctgaata
2801  tcacaattcc taaattggta aatgttatat gttccaatcc tggggatcaa aaatcaaaga gtatcatgag cctagatctc acgacttgtg tatcggatac
2901  cactgcagct gtcctgtttt tcctcacatt ccttaccacc tccatggtta tgttggctgc tctggttcac cacctgtttt actgggatgt ttggtttatc
3001  tatcacatgt gctctgctaa gttaaaaggc tacaggactt catccacatc ccaaactttc tatgatgctt atatttctta tgacaccaaa gatgcatctg
3101  ttactgactg ggtaatcaat gaactgcgct accaccttga agagagtgaa gacaaaagtg tcctcctttg tttagaggag agggattggg atccaggatt
3201  acccatcatt gataacctca tgcagagcat aaaccagagc aagaaaacaa tctttgtttt aaccaagaaa tatgccaaga gctggaactt taaaacagct
3301  ttctacttgg ccttgcagag gctaatggat gagaacatgg atgtgattat tttcatcctc ctggaaccag tgttacagta ctcacagtac ctgaggcttc
3401  ggcagaggat ctgtaagagc tccatcctcc agtggcccaa caatcccaaa gcagaaaact tgttttggca aagtctgaaa aatgtggtct tgactgaaaa
3501  tgattcacgg tatgacgatt tgtacattga ttccattagg caatactaaa ggcgcgccag tatactctag agtcgacacc cggggaattc ctcgagcgct
3601  cgtctctagc ttggcgtaat catggtcata gctgtttcct gtgtgaaatt gttatccgct cacaattcca cacaacatac gagccggaag cataaagtgt
3701  aaagcctggg gtgcctaatg agtgagctaa ctcacattaa ttgcgttgcg ctcactgccc gctttccagt cgggaaacct gtcgtgccag ctgcattaat
3801  gaatcggcca acgcgcgggg agaggcggtt tgcgtattgg gcgctcttcc gcttcctcgc tcactgactc gctgcgctcg gtcgttcggc tgcggcgagc
3901  ggtatcagct cactcaaagg cggtaatacg gttatccaca gaatcagggg ataacgcagg aaagaacatg tgagcaaaag gccagcaaaa ggccaggaac
4001  cgtaaaaagg ccgcgttgct ggcgtttttc cataggctcc gcccccctga cgagcatcac aaaaatcgac gctcaagtca gaggtggcga aacccgacag
4101  gactataaag ataccaggcg tttccccctg gaagctccct cgtgcgctct cctgttccga ccctgccgct taccggatac ctgtccgcct ttctcccttc
4201  gggaagcgtg gcgctttctc aatgctcacg ctgtaggtat ctcagttcgg tgtaggtcgt tcgctccaag ctgggctgtg tgcacgaacc ccccgttcag
4301  cccgaccgct gcgccttatc cggtaactat cgtcttgagt ccaacccggt aagacacgac ttatcgccac tggcagcagc cactggtaac aggattagca
4401  gagcgaggta tgtaggcggt gctacagagt tcttgaagtg gtggcctaac tacggctaca ctagaaggac agtatttggt atctgcgctc tgctgaagcc
4501  agttaccttc ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctggtag cggtggtttt tttgtttgca agcagcagat tacgcgcaga
4601  aaaaaaggat ctcaagaaga tcctttgatc ttttctacgg ggtctgacgc tcagtggaac gaaaactcac gttaagggat tttggtcatg agattatcaa
4701  aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaatca atctaaagta tatatgagta aacttggtct gacagttacc aatgcttaat
4801  cagtgaggca cctatctcag cgatctgtct atttcgttca tccatagttg cctgactccc cgtcgtgtag ataactacga tacgggaggg cttaccatct
4901  ggccccagtg ctgcaatgat accgcgagac ccacgctcac cggctccaga tttatcagca ataaaccagc cagccggaag ggccgagcgc agaagtggtc
5001  ctgcaacttt atccgcctcc atccagtcta ttaattgttg ccgggaagct agagtaagta gttcgccagt taatagtttg cgcaacgttg ttgccattgc
5101  tacaggcatc gtggtgtcac gctcgtcgtt tggtatggct tcattcagct ccggttccca acgatcaagg cgagttacat gatcccccat gttgtgcaaa
5201  aaagcggtta gctccttcgg tcctccgatc gttgtcagaa gtaagttggc cgcagtgtta tcactcatgg ttatggcagc actgcataat tctcttactg
5301  tcatgccatc cgtaagatgc ttttctgtga ctggtgagta ctcaaccaag tcattctgag aatagtgtat gcggcgaccg agttgctctt gcccggcgtc
5401  aatacgggat aataccgcgc cacatagcag aactttaaaa gtgctcatca ttggaaaacg ttcttcgggg cgaaaactct caaggatctt accgctgttg
5501  agatccagtt cgatgtaacc cactcgtgca cccaactgat cttcagcatc ttttactttc accagcgttt ctgggtgagc aaaaacagga aggcaaaatg
5601  ccgcaaaaaa gggaataagg gcgacacgga aatgttgaat actcatactc ttccttttc aatattattg aagcatttat cagggttatt gtctcatgag
5701  cggatacata tttgaatgta tttagaaaaa taaacaaata ggggttccgc gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac cattattatc
5801  atgacattaa cctataaaaa taggcgtatc acgaggccct ttcgtc
```

> RDC0786 Translated Insert Sequence

```
   1  menmppqswi ltcfcllssg tsaifhkany srsypcdeir hnslviaecn hrqlhevpqt igkyvtnidl sdnaithitk esfqklqnlt kidlnhnakq
 101  qhpnenkngm nitegallsl rnltvllled nqlytipagl peslkelsli qnnifqvtkn ntfglrnler lylgwncyfk cnqtfkvedg afknlihlkv
 201  lslsfnnlfy vppklpsslr klflsnakim nitqedfkgl enltllldlsg ncprcynapf pctpckenss ihihplafqs ltqllylnls stslrtipst
 301  wfenlsnlke lhlefnylvq eiasgafltk lpslqildls fnfqykeylq finissnfsk lrslkklhlr gyvfrelkkk hfehlqslpn latinlginf
 401  iekidfkafq nfskldviyl sgnriasvld gtdysswrnr lrkplstddd efdphvnfyh stkplikpqc taygkaldls lnnifiigks qfegfqdiac
 501  lnlsfnantq vfngtefssm phikyldltn nrldfddnna fsdlhdlevl dlshnahyfs iagvthrlgf iqnlinlrvl nlshngiytl teeselksis
 601  lkelvfsgnr ldrlwnandg kywsifkslq nlirldlsyn nlqqipngaf lnlpqslqel lisgnklrff nwtllqyfph lhlldlsrne lyflpnclsk
 701  fahsletlll shnhfshlps gflsearnlv hldlsfntik minkssltqk mktnlsilel hgnyfdctcd isdfrswlde nlnitipklv nvicsnpgdq
 801  ksksimsldl ttcvsdttaa vlffltfltt smvmlaalvh hlfywdvwfi yhmcsaklkg yrtsstsqtf ydayisydtk dasvtdwvin elryhleese
 901  dksvllclee rdwdpglpii dnlmqsinqs kktifvltkk yakswnfkta fylalqrlmd enmdviifil lepvlqysqy lrlrqricks silqwpnnpk
1001  aenlfwqslk nvvltendsr yddlyidsir qy
```