

Specifications:

Gene:	rCCR10
Accession:	NP_001102306
Insert size:	1102bp
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.

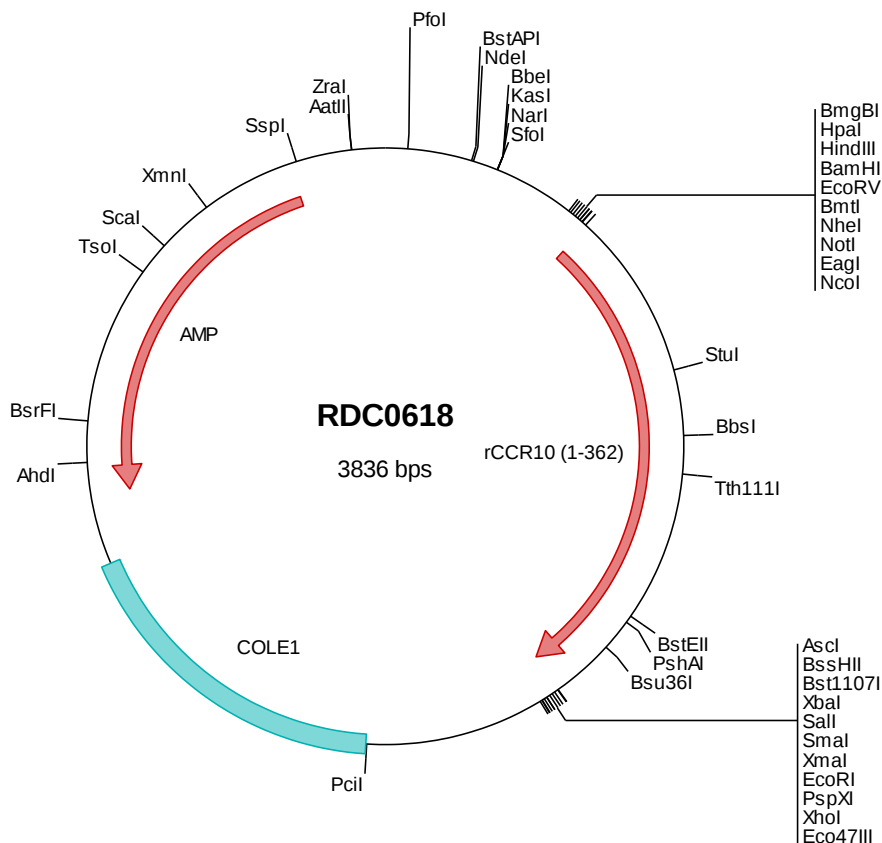
rCCR10 cDNA Plasmid

Ccr10 chemokine (C-C motif) receptor 10 [*Rattus norvegicus*]

Also known as: Gpr2

Summary:

Chemokine receptor CCR10 is expressed by all intestinal IgA-producing plasma cells. It plays an important role in positioning these cells in the lamina propria for proper IgA production to maintain intestinal homeostasis and protect against infection. CCR10 is the receptor for CCL27. CCR10-CCL27 interactions are involved in T cell-mediated skin inflammation. CCR10 plays critical roles in regulating the intestinal IgA response and memory maintenance. It could be important in the design of vaccines against intestinal and possibly other mucosal pathogens.





> RDC0618 Plasmid DNA Sequence

```

1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtgtggta acgccagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacac atggggacca agcccacaga acaggtctcc tggggacott actccgggta
501  tgaggaggag gcttatcag ctgggcgcgt gcgggagctc tgttacaagg ccgatgtoca ggcttttagt cgggccttcc aaccagtggt ctccctgatg
601  gtggtgtgct tgggtttggg gggcaatggc ttagtcttgg ccacccatct ggcagcccg cgaactaccc gatctcccac ctccgttccac ctgctccagt
701  tggccctggc tgacctctta ttggccctga ccttgccttt tgctgcagca ggggtctctc agggctggaa tttagggaagt accacctgcc gtgccatctc
801  aggcctctac tcggcctcct tccaacgagg ctctctcttc ctagcctgca tcagcgccga ccgctatgtg gccatocaaa gagctctccc agcagggaag
901  cggccctcca cgcctagccg tgcocacttg gtctcagctc togtgtggct gttgtcgtg cttctggctc tacctgcgct cctttcagc cgggacgggc
1001 cacgggaagg ccaacgacgc tgtcggtccc tttttccga aagcctcagc cagactgtga aaggggcaag ccgctggcg caggtgttcc tcggcttccc
1101 gctgcctctg ggtgtcatgg cagcctgtta tgccctctg ggcgcacgc ttctggccgc cagggggcca gagcgcgccg gtgcactgcg cgtcgtgttg
1201 gccttgggtg tggcctctgt ggtgtgcgag ttgcctaca gcctgcgcct gctgctggat acagccgato tactggcagc ccgtgagcgg agctgtctct
1301 ccagcaagcg caaggattta gctctgctgg tcacggagg cttgacctta gtccgctgca gcctcaatcc ggtgtgtat gcttttttgg gctcgcgtt
1401 ccgcagggac ctgaggaggc tgcacaggg cggaggatgc agccgaagc ccaaccctcg tggccgctgc ccccgccgac tccgccttcc ttccctgccc
1501 gctctactcg agaccacag tgtctcttgg gacaaataaa ggccgcgcag tatactctag agtcgacacc cggggaattc ctcgagcgct cgtctctagc
1601 ttggcgtaat catggtcata gctgtttcct gtgtgaaatt gttatccgct cacaattcca cacaacatac gagccggaag cataaagtgt aaagcctggg
1701 gtgcctaata agtgagctaa ctacatttaa ttgcgttgcg ctactgcgcc gctttccagt cgggaaacct gtcgtgccag ctgcattaat gaatcggcca
1801 acgcgcgggg agaggcggtt tgcgtattgg gcgctcttcc gcttctctcg tcactgactc gctgcgctcg gtcgttcggc tgcggcgagc ggtatcagct
1901 cactcaaaag cggtaatacag gttatccaca gaatcagggg ataacgcagg aaagaacatg tgagcaaaa gcccagcaaaa ggcaggaac cgtaaaaagg
2001 ccgcgttgtc ggcgtttttc cataggtccc gccccctga cgagcatcac aaaaatcgac gctcaagtca gaggtggcga aaccgcagac gactataaag
2101 ataccaggcg tttccctctg gaagctccct cgtgcgctct cctgttccga cctgcgcgtc taccggatac ctgtccgctc ttctcccttc gggaaagcgt
2201 gcgctttctc aatgctcacg ctgtaggtat ctcagttcgg tgtaggtcgt tcgctccaag ctgggctgtg tgcacgaacc ccccgttcag cccgaccgct
2301 gcgccttata cgtcttgcag cgtcttgagt ccaacccggt aagacacgac ttatcgccac tggcagcagc cactggtaac aggattagca gagcgaggta
2401 tgtagcggtg gctacagagt tcttgaagtg gtggcctaac tacggctaca ctagaaggac agtatttggg atctgcgctc tgcgtgaacc agttacctc
2501 ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctggtag cgggtgtttt tttgtttgca agcagcagat tacgcgcaga aaaaaaggat
2601 ctcaagaaga tcctttgata tttttacgg ggtctgacgc tcagtggaac gaaaactcac gtttaaggat tttgtctatg agattatcaa aaaggatctt
2701 cacctagatc cttttaaatt aaaaatgaag ttttaaatca atctaaagta tatatgagta aacttggctc gacagttacc aatgcttaat cagttaggca
2801 cctatctcag cgatctgtct atttctgttc tccatagttg cctgactccc cgtcgtgtag ataactacga tacgggaggg cttaccatct ggcaccagtg
2901 ctgcaatgat accgcgagac ccacgctcac cggctccaga tttatcagca ataaaccagc cagccggaag ggccgagcgc agaagtggtc ctgcaacttt
3001 atccgcctcc atccagctc ttaattgttg ccgggaagct agagtaagta gttcgccagt taatagtttg cgcaacgttg ttgccattgc tacaggcatc
3101 gtggtgtcac gctcgtcgtt tgggtatggc tcattcagct ccggttccca acgatcaagg cgagttacat gatcccccac gttgtgcaaa aaagcgggta
3201 gctccttcgg tcctccgata gttgtcagaa gtaagttggc cgcagtgtta tcactcatg ttatggcagc actgcataat tctcttactg tcatgccatc
3301 cgtaaatgac ttttctgtga ctggtgagta ctcaaccaag toattctgag aatagtgtag gcggcgacgc agttgctctt gcccgcgctc aatacgggat
3401 aataccgcgc cacatagcag aactttaaaa gtgctcatac ttgaaaaacc ttcttcgggg cgaaaactct caaggatctt accgctgttg agatccagtt
3501 cgatgtaacc cactcgtgca cccaactgat cttcagcatc ttttacttcc accagcgttt ctgggtgagc aaaaacagga aggcataaat ccgcaaaaaa
3601 gggaataaag gcgacacgga aatgttgaat actcatactc ttctcttttc aatattattg aagcatttat cagggttatt gtctcatgag cggatacata
3701 tttgaatgta tttagaaaaa taacaaaata ggggttccgc gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac cattattatc atgacattaa
3801 cctataaaaa taggcgtatc acgaggccct ttcgtc

```

> RDC0618 Translated Insert Sequence

```

1   mgtkpteqvs wgpysgyeee aysaglpel cykadvfafs rafqpsvslm vavlglvng lvlathlaar rtrrsptsvh llqlaladll laltlpfaaa
101  galqgnlgs ttcraisgly sasfhagflf laciasdryv aitralspag rpstpsrahl vsvfwwllsl llalpalifs rdgpregrrr crllfpeslt
201  qtvkgasava qvvlgfalpl gvmaacyall grtllaargp errralrvvv alvvafvvlq lpyslallld tadllaarer scssskrkd1 allvtggltl
301  vrclslnpvlv aflrlrfrqd lrrllqgggc spkpnprgrc prrlrlsscs aptethsvsw dn

```