*h*CCR2B VersaClone cDNA

Catalog Number: RDC0004

Specifications:

Gene:	*h*CCR2B
Accession:	NP_001116868
Insert size:	1096bp
Package size:	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.

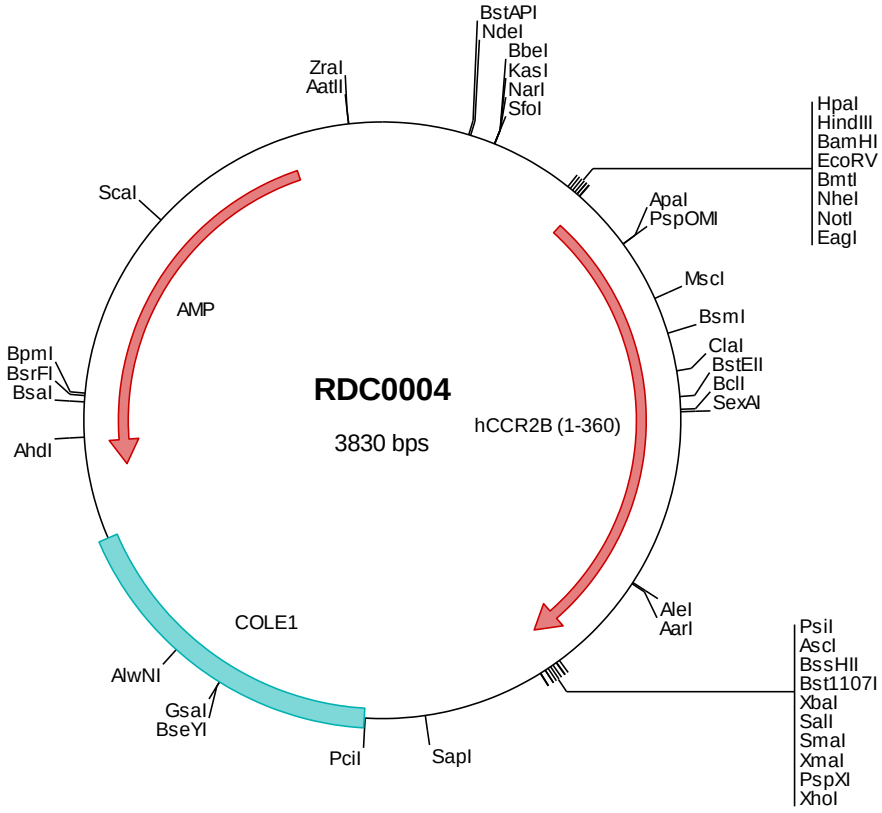
*h*CCR2B cDNA Plasmid

CCR2 chemokine (C-C motif) receptor 2 [*Homo sapiens*]

Also known as: CKR2; CCR2A; CCR2B; CD192; CKR2A; CKR2B; CMKBR2; MCP-1-R; CC-CKR-2

Summary:

CCR2 is a G-protein linked seven transmembrane domain spanning chemokine receptor that preferentially binds monocyte chemoattractant proteins-1 and -3 (MCP-1 and MCP-3). Two isoforms of this receptor (CCR2A and CCR2B) are expressed on cell surfaces as a result of alternate splicing from the same gene. This may provide a mechanism by which cells responding to similar extracellular ligands can activate different intracellular second messengers. Cells that respond to the action of MCP-1 are likely to express CCR2 receptors, include monocytes, T cells, NK cells, basophils, mast cells and dendritic cells. B cells may also express CCR2 receptors. CCR2 can serve as an HIV fusion co-factor and as a facilitator of T cell recruitment during inflammation.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0004 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 atgctgtcca catctcgttc tcggtttatc agaaatacca acgagagcgg
 501  tgaagaagtc accacctttt ttgattatga ttacggtgct ccctgtcata aatttgacgt gaagcaaatt ggggcccaac tcctgcctcc gctctactcg
 601  ctggtgttca tctttggttt tgtgggcaac atgctggtcg tcctcatctt aataaactgc aaaaagctga agtgcttgac tgacatttac ctgctcaacc
 701  tggccatctc tgatctgctt tttcttatta ctctcccatt gtgggctcac tctgctgcaa atgagtgggt ctttgggaat gcaatgtgca aattattcac
 801  agggctgtat cacatcggtt attttggcgg aatcttcttc atcatcctcc tgacaatcga tagatacctg gctattgtcc atgctgtgtt tgctttaaaa
 901  gccaggacgg tcacctttgg ggtggtgaca agtgtgatca cctggttggt ggctgtgttt gcttctgtcc caggaatcat ctttactaaa tgccagaaag
1001  aagattctgt ttatgtctgt ggcccttatt ttccacgagg atggaataat ttccacacaa taatgaggaa cattttgggg ctggtcctgc cgctgctcat
1101  catggtcatc tgctactcgg gaatcctgaa aaccctgctt cggtgtcgaa acgagaagaa gaggcatagg gcagtgagag tcatcttcac catcatgatt
1201  gtttactttc tcttctggac tccctataat attgtcattc tcctgaacac cttccaggaa ttcttcggcc tgagtaactg tgaaagcacc agtcaactgg
1301  accaagccac gcaggtgaca gagactcttg ggatgactca ctgctgcatc aatcccatca tctatgcctt cgttggggag aagttcagaa ggtatctctc
1401  ggtgttcttc cgaaagcaca tcaccaagcg cttctgcaaa caatgtccag ttttctacag ggagacagtg gatggagtga cttcaacaaa cacgccttcc
1501  actggggagc aggaagtctc ggctggttta taaaggcgcg ccagtatact ctagagtcga cacccgggga attcctcgag cgctcgtctc tagcttggcg
1601  taatcatggt catagctgtt tcctgtgtga aattgttatc cgctcacaat tccacacaac atacgagccg gaagcataaa gtgtaaagcc tggggtgcct
1701  aatgagtgag ctaactcaca ttaattgcgt tgcgctcact gcccgctttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc
1801  ggggagaggc ggtttgcgta ttgggcgctc ttccgcttcc tcgctcactg actcgctgcg ctcggtcgtt cggctgcggc gagcggtatc agctcactca
1901  aaggcggtaa tacggttatc cacagaatca ggggataacg caggaaagaa catgtgagca aaaggccagc aaaaggccag gaaccgtaaa aaggccgcgt
2001  tgctggcgtt tttccatagg ctccgccccc ctgacgagca tcacaaaaat cgacgctcaa gtcagaggtg gcgaaacccg acaggactat aaagatacca
2101  ggcgtttccc cctggaagct ccctcgtgcg ctctcctgtt ccgaccctgc cgcttaccgg atacctgtcc gcctttctcc cttcgggaag cgtggcgctt
2201  tctcaatgct cacgctgtag gtatctcagt tcggtgtagg tcgttcgctc caagctgggc tgtgtgcacg aacccccccgt tcagcccgac cgctgcgcct
2301  tatccggtaa ctatcgtctt gagtccaacc cggtaagaca cgacttatcg ccactggcag cagccactgg taacaggatt agcagagcga ggtatgtagg
2401  cggtgctaca gagttcttga agtggtggcc taactacggc tacactagaa ggacagtatt tggtatctgc gctctgctga agccagttac cttcggaaaa
2501  agagttggta gctcttgatc cggcaaacaa accaccgctg gtagcggtgg ttttttgttt tgcaagcagc agattacgcg cagaaaaaaa ggatctcaag
2601  aagatccttt gatcttttct acggggtctg acgctcagtg gaacgaaaac tcacgttaag ggattttggt catgagatta tcaaaaagga tcttcaccta
2701  gatcctttta aattaaaaat gaagttttaa atcaatctaa agtatatatg agtaaacttg gtctgacagt taccaatgct taatcagtga ggcacctatc
2801  tcagcgatct gtctatttcg ttcatccata gttgcctgac tccccgtcgt gtagataact acgatacggg agggcttacc atctggcccc agtgctgcaa
2901  tgataccgcg agacccacgc tcaccggctc cagatttatc agcaataaac cagccagccg gaagggccga gcgcagaagt ggtcctgcaa ctttatccgc
3001  ctccatccag tctattaatt gttgccggga agctagagta agtagttcgc cagttaatag tttgcgcaac gttgttgcca ttgctacagg catcgtggtg
3101  tcacgctcgt cgtttggtat ggcttcattc agctccggtt cccaacgatc aaggcgagtt acatgatccc ccatgttgtg caaaaaagcg gttagctcct
3201  tcggtcctcc gatcgttgtc agaagtaagt tggccgcagt gttatcactc atggttatgg cagcactgca taattctctt actgtcatgc catccgtaag
3301  atgcttttct gtgactggtg agtactcaac caagtcattc tgagaatagt gtatgcggcg accgagttgc tcttgcccgg cgtcaatacg ggataatacc
3401  gcgccacata gcagaacttt aaaagtgctc atcattggaa aacgttcttc ggggcgaaaa ctctcaagga tcttaccgct gttgagatcc agttcgatgt
3501  aacccactcg tgcacccaac tgatcttcag catcttttac tttcaccagc gtttctgggt gagcaaaaac aggaaggcaa aatgccgcaa aaaagggaat
3601  aagggcgaca cggaaatgtt gaatactcat actcttcctt tttcaatatt attgaagcat ttatcagggt tattgtctca tgagcggata catatttgaa
3701  tgtatttaga aaaataaaca aatagggggtt ccgcgcacat ttccccgaaa agtgccacct gacgtctaag aaaccattat tatcatgaca ttaacctata
3801  aaaataggcg tatcacgagg ccctttcgtc
```

> RDC0004 Translated Insert Sequence

```
   1  mlstsrsrfi rntnesgeev ttffdydyga pchkfdvkqi gaqllpplys lvfifgfvgn mlvvlilinc kklkcltdiy llnlaisdll flitlplwah
 101  saanewvfgn amcklftgly higyfggiff iilltidryl aivhavfalk artvtfgvvt svitwlvavf asvpgiiftk cqkedsvyvc gpyfprgwnn
 201  fhtimrnilg lvlpllimvi cysgilktll rcrnekkrhr avrviftimi vyflfwtpyn ivillntfqe ffglsncest sqldqatqvt etlgmthcci
 301  npiiyafvge kfrrylsvff rkhitkrfck qcpvfyretv dgvtstntps tgeqevsagl
```