

Specifications:

Gene:	rADRA2A
Accession:	NP_036871
Insert size:	1411bp
Concentration:	10µg at 0.2µg/µL

rADRA2A cDNA Plasmid

Adra2a adrenoceptor alpha 2A
[*Rattus norvegicus* (Norway rat)]

Also known as: RG20; CA2-47;
RATRG20

Summary:

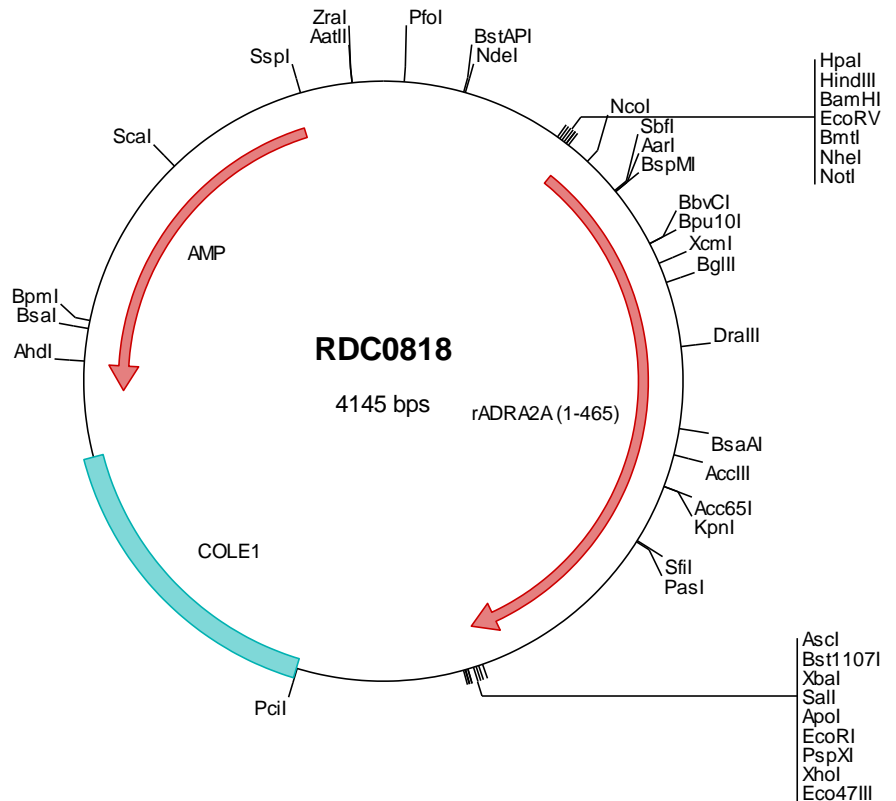
The alpha 2A adrenergic receptor ADRA2A belongs to the G protein-coupled receptor family. It exerts a variety of biological effects, including thermoregulation, and plays a key role in inflammatory reactions. ADRA2A may also regulate CCL2/MCP-1 expression, working as an inhibitory mediator.

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.





> RDC0818 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301 taaggcagct ggcgaaaagg ggatgtgctg caaggcgatt aagtgggta acgcccgggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgtagcgc gggcccaacc atgttccgca aggagcagcc gctggccgag ggcagctttg cgcctatggg
501 ctccctgcag ccggatgccg gcaatagcag ctggaacggc accggaggcg ccggaggcgg caccggggcc accccttact ccttgcaggt gacgctgacg
601 ctgggtgtgc ttggtggcct gctcatgctg ttoaccgtg ttggcaactg gctggttatt atcgcagtgt tcaccagcgg ogcgctcaaa gcgcccaga
701 acctcttctt ggtgtctctg gctcagcgg acatcctggt ggccacgctg gtcattccct tttctttggc caacgaggtt atgggctact ggtactttgg
801 taagggttgg tgcgagatct acttggccct cgagctgctc ttttgcaact gctccatagt gcacctgtgc gccatcagcc ttgaccgcta ctggtccatc
901 acgcaggcca tcgagtacaa cctgaagcgc acgcccgggc goactaaggc catcattgtc actgtgtggg tcatctcggc cgtcatctcc ttcggccac
1001 tcatctccat agagaagaag ggcgctggcg cggggcagca gccggccgag ccgagctgca agattaacga ccagaagtgg tatgtcatct cgtcgtccat
1101 cggctccttc ttcgcgctt gcctcatcat gatcctggtc tacgtgcgta tctaccagat cgccaagcgt cgcacccggc tgcggccag tcgcccgggt
1201 ccggacgctt gttccggccc gccggggggc gccgatcgca ggcccacaagg gctggggccc gagcggcgcg ctggtaccgc gggcgcgagg gccagaccgc
1301 tgcccaccca gcttaacggc gcccccgggg agcccggccc caccggcgcg cgcgacgggg atgctgtgga cctagaggag agttcgtcgt ccgagcagcc
1401 cggcggccc caggggccc gcaaacccga cgcggctccc cggcccagg gacagaccaa ggcgagcccag gtgaaaccgg gggacagtct gccgcgccc
1501 gggcccgggg ctgcggggcc gggggcttcg gggctcgggc agggagagga gcgtgcgggg gccgcaaaag cgtcgcgctg gccggggagg cagaaaccgg
1601 agaaaagcct cagcttctg ctggcgggtg tgatcggcgt gttcgtgggt tggttggtcc cgttcttttt caccatacag ctcatagcgg tcggctgccc
1701 ggtgcccctac cagctcttca acttctctct ctggttcggc tactgcaaca gctcgtgtaa cctcgttctc tacaccattt tcaaccaga cttccgccc
1801 gcttcaaga agatcctctg ccgtggggac agaaaagcga tcgtataaag gcgcccagct atactctaga gtcgacaccc ggggaattcc tcgagcgtc
1901 gtctctagct tggcgtaatc atggctcatg ctgtttctct tgtgaaattg tttatccgctc acaattccac acaacatagc agccggaagc ataaagtga
2001 aagcctgggg tgcctaata gtagcctaac tcacattaat tgcgttgcgc tcaactgccc ctttccagtc gggaaacctg tcgtgcccagc tgcattaatg
2101 aatcggccaa cgcgcccggg gaggcgggtt cgcgtattgg cgctctccg cttcctcgct cactgactcg ctgcgctcgg tcgttcggct gccgagcagc
2201 gtatcagctc actcaaaagg ggaataacgg tttatccacag aatcagggga taaccgagga aagaacatgt gagcaaaaag ccagcaaaaag gccaggaacc
2301 gtaaaaaagg cagcttctg gcgtttttcc ataggtccc ccccctgac gagcatcaca aaaatcgacg ctcaagttag aggtggcgaa acccgacagc
2401 actataaaga taccagcgtt tccccctg aaagctccctc gtgcgctctc ctgttccgac cctgcccgtt accggatacc tgtccgctt tctccctcg
2501 ggaagcgtg cgctttctca atgctcagc tgtaggtatc tcagtccgtt gtaggtcgtt cgctccaagc tgggctgtgt gacgaaccc cccgttcagc
2601 cgcaccgctg cgccttatcc ggttaactatc gtcttgagtc caaccggta agacacgact tatcgccact ggcagcagcc actggtaaca ggattagcag
2701 agcaggtat gtaggcgggtg ctacagagtt cttgaagtgg tggcctaact acggtcacac tagaaggaca gtatttgta tctgctctc gctgaagca
2801 gttaccttcg gaaaaagagt tggtagctct tgatccggca acaaaaccac cgtggttagc ggtggtttt ttgtttgca gcagcagatt acgcccagaa
2901 aaaaagatc tcaagaagat cttttgatct tttctacgg gtctgacgct cagtggaaag aaaactcagc ttaagggatt ttggtcatga gattatcaaa
3001 aaggatcttc acctagatcc ttttaatta aaaaatgaag tttaaatcaa tctaagatata atatagatga acttggctcg acagttacca atgcttaatc
3101 agtgaggcac ctatctcagc gatctgtcta tttcgttcat ccatagttgc ctgactcccc gtcgtgtaga taactacgat accggagggc ttaccatctg
3201 gccccagtc tgcaatgata ccgcgagacc cagcctcacc ggtccagat ttatcagcaa taaaccagcc agccggaagg gccgagcga gaagtgttc
3301 tgcaacttta tccgctcca tccagctat taattgttgc ccgggaagcta gagtaagtag ttccgcaagt aatagtttgc gcaacgttgt tgcatttct
3401 acaggcctgc tgggtgcaag ctctgctgtt ggtatggctt caatcagctc cgttcccaca cgateaggc gagttacatg atcccccatg ttgtgcaaaa
3501 aagcggttag ctctctcggg cctccgactg ttgtcagaag taagttggc gcaggtttat cactcatggt tatggcagca ctgcataatt ctcttactg
3601 catgcccctc gtaagatgct tttctgtgac tgggtgagta tcaaccaagt cattctgaga atagtgtagt cggcgaccga gttgctctg cccggcgtca
3701 atacgggata ataccgccc acatagcaga actttaaaag tgcctcatc tggaaaaact tcttcggggc gaaaactctc aaggatctta ccggtttga
3801 gatccagttc gatgtaaccc actcgtgcac ccaactgatc ttcagcatct tttactttca ccagcgttcc tgggtgagca aaaacaggaa ggcaaatgc
3901 cgcaaaaaag ggaataaggc cgacacggaa atgtgtaata ctcatctct tcctttttca atattattga agcatttacc agggttattg tctcatgagc
4001 ggatacatat ttgaatgat ttgaaaaaat aaacaatatg ggtttccgca cacatttccc cgaaggatgc cacctgacgt ctaagaaacc attattatca
4101 tgacattaac ctataaaaaat agcgtatca ccagggcctt tcgctc

> RDC0818 Translated Insert Sequence

1 mfrqeqplae gsfapmgslq pdagnsswng teapgggtra tpyslqvltl lvclagllml ftvfgnvlvi iavftsralk apqnlflvsl asadilvatl
101 vipfslanev mgywyfgkwv ceilylaldvl fctssivhlc aisdrywsi tqaieynlkr tprrikaiiv tvwvisavis fpplisiekk gagggqpae
201 psckindqkw yvissisfsf fapclimilv yvriyqiakr rtrvppsrrp pdacsappgg adrrpnlglp ergagtagae aeplptqing apgepaptrp
301 rdgdaldlee ssssheaerp gppkfergp rakgktkasr vkpjdslrrp gpgaaaggas gsggqeerag gakasrwrgr qnrekrftfv lavvigfvv
401 cwfppfftyt liavacpvy qlnffwfwg ycnsslnpvi ytifnhdfr afkkilcrgd rkriv