*m*GPR18 VersaClone cDNA

Catalog Number: RDC0812

Specifications:

Gene:	*m*GPR18
Accession:	NP_877958
Insert size:	1009bp
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

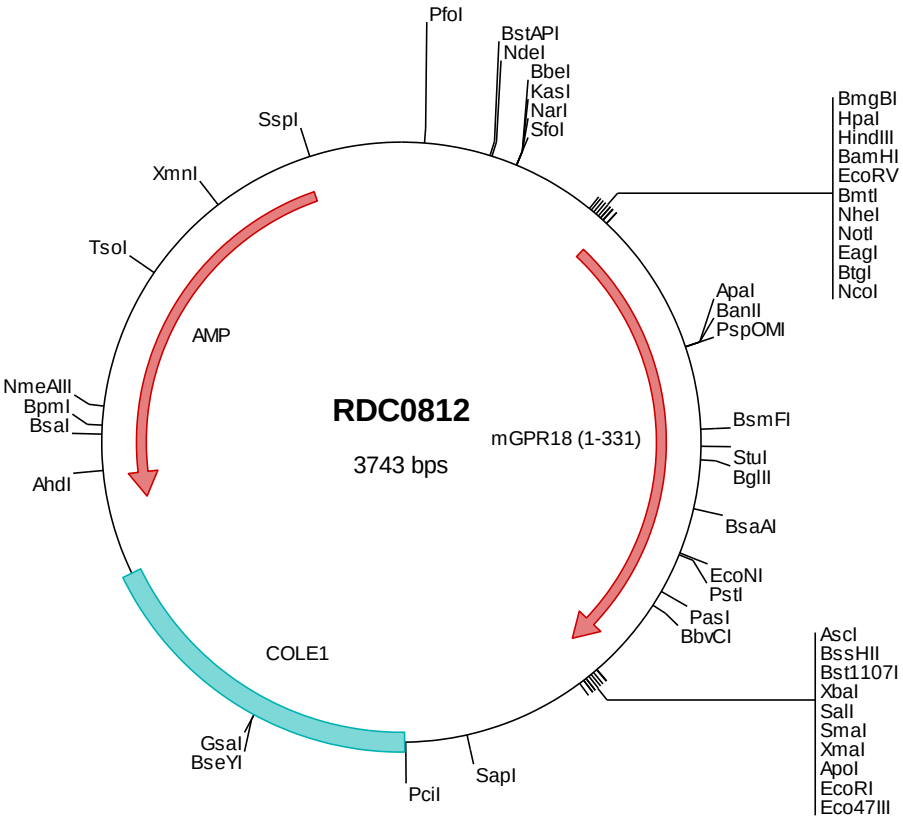
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*GPR18 cDNA Plasmid

Gpr18 G protein-coupled receptor 18 [*Mus musculus* (house mouse)]

Summary:

GPR18 is the receptor for N-arachidonyl glycine and belongs to the G protein-coupled receptor 1 family. The activity of GPR18 is regulated by G proteins which inhibit adenylyl cyclase and may contribute to the regulation of the immune system.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0812 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 atggccaccc tgagcaatca caaccagctt gatctttcta atggctcaca
 501  cccagaggaa tacaaaatcg cagccctagt cttctacagc tgcatcttcc tgattgggct gtttgttaat gtcactgcgt tgtgggtttt cagctgtacg
 601  accaagaaaa gaaccacagt gaccatctac atgatgaacg ttgcactact ggacctcgta tttatactca gtctgccctt tcggatgttt tactatgcaa
 701  aaggcgagtg gccatttgga gagtacttct gccacattct tggggccctg gtggtgtttt acccaagcct cgctctgtgg cttcttgctt tcattagtgc
 801  tgacagatac atggccatcg tacagccaaa atatgccaag gagctgaaga acaccggcaa ggccgtgctt gcgtgtgggg gggtctgggt aatgaccctg
 901  accaccactg tccccctgct actgctctac gaagacccag acaaggcctc ctccccggcc acctgcctga agatctccga catcacccac ttaaaagctg
1001  tcaacgtgct caacttcacg cgactcatat ttttcttcct gatccctttg ttcatcatga tcgggtgcta cgtggtcatc attcacagtc tcctccgagg
1101  gcagacgtct aagctgaagc ccaaggtcaa ggagaagtcc atacggatca tcatgaccct cctgctgcag gtgctcgtct gcttcgtgcc cttccacatc
1201  tgctttgccg tcctgatgct acaaggacag gagaacagct atagcccctg gggagccttc accaccttcc tcatgaacct cagcacctgt ctcgatgtag
1301  tcctctacta catcgtttcc aaacagttcc aggctcgagt catcagcgtc atgctgtacc gcaattacct tcgcagtgtt cgcagaaaaa gtgtccgatc
1401  gggcagttta cggtcactta gcaacatgaa cagtgagatg ctttaaaggc gcgccagtat actctagagt cgacacccgg ggaattcctc gagcgctcgt
1501  ctctagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtaaa
1601  gcctggggtg cctaatgagt gagctaactc acattaattg cgttgcgctc actgcccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa
1701  tcggccaacg cgcggggaga ggcggtttgc gtattgggcg ctcttccgct tcctcgctca ctgactcgct gcgctcggtc gttcggctgc ggcgagcggt
1801  atcagctcac tcaaaggcgg taatacggtt atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc agcaaaaggc caggaaccgt
1901  aaaaaggccg cgttgctggc gtttttccat aggctccgcc cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac
2001  tataaagata ccaggcgttt cccccctggaa gctccctcgt gcgctctcct gttccgaccc tgccgcttac cggatacctg tccgcctttc tcccttcggg
2101  aagcgtggcg ctttctcaat gctcacgctg taggtatctc agttcggtgt aggtcgttcg ctccaagctg ggctgtgtgc acgaaccccc cgttcagccc
2201  gaccgctgcg ccttatccgg taactatcgt cttgagtcca acccggtaag acacgactta tcgccactgg cagcagccac tggtaacagg attagcagag
2301  cgaggtatgt aggcggtgct acagagttct tgaagtggtg gcctaactac ggctacacta gaaggacagt atttggtatc tgcgctctgc tgaagccagt
2401  taccttcgga aaaagagttg gtagctcttg atccggcaaa caaaccaccg ctggtagcgg tggttttttt gtttgcaagc agcagattac gcgcagaaaa
2501  aaaggatctc aagaagatcc tttgatcttt tctacggggt ctgacgctca gtggaacgaa aactcacgtt aagggatttt ggtcatgaga ttatcaaaaa
2601  ggatcttcac ctagatcctt ttaaattaaa aatgaagttt taaatcaatc taaagtatat atgagtaaac ttggtctgac agttaccaat gcttaatcag
2701  tgaggcacct atctcagcga tctgtctatt tcgttcatcc atagttgcct gactccccgt cgtgtagata actacgatac gggagggctt accatctggc
2801  cccagtgctg caatgatacc gcgagaccca cgctcaccgg ctccagattt atcagcaata aaccagccag ccggaagggc cgagcgcaga agtggtcctg
2901  caactttatc cgcctccatc cagtctatta attgttgccg ggaagctaga gtaagtagtt cgccagttaa tagtttgcgc aacgttgttg ccattgctac
3001  aggcatcgtg gtgtcacgct cgtcgtttgg tatggcttca ttcagctccg gttcccaacg atcaaggcga gttacatgat cccccatgtt gtgcaaaaaa
3101  gcggttagct ccttcggtcc tccgatcgtt gtcagaagta agttggccgc agtgttatca ctcatggtta tggcagcact gcataattct cttactgtca
3201  tgccatccgt aagatgcttt tctgtgactg gtgagtactc aaccaagtca ttctgagaat agtgtatgcg gcgaccgagt tgctcttgcc cggcgtcaat
3301  acgggataat accgcgccac atagcagaac tttaaaagtg ctcatcattg gaaaacgttc ttcggggcga aaactctcaa ggatcttacc gctgttgaga
3401  tccagttcga tgtaacccac tcgtgcaccc aactgatctt cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg caaaatgccg
3501  caaaaaaggg aataagggcg acacggaaat gttgaatact catactcttc ctttttcaat attattgaag catttatcag ggttattgtc tcatgagcgg
3601  atacatattt gaatgtattt agaaaaataa acaaatagggg gttccgcgca catttccccg aaaagtgcca cctgacgtct aagaaaccat tattatcatg
3701  acattaacct ataaaaatag gcgtatcacg aggccctttc gtc
```

> RDC0812 Translated Insert Sequence

```
   1  matlsnhnql dlsngshpee ykiaalvfys cifliglfvn vtalwvfsct tkkrttvtiy mmnvalldlv filslpfrmf yyakgewpfg eyfchilgal
 101  vvfypslalw llafisadry maivqpkyak elkntgkavl acggvwvmtl tttvplllly edpdkasspa tclkisdith lkavnvlnft rliffflipl
 201  fimigcyvvi ihsllrgqts klkpkvkeks iriimtlllq vlvcfvpfhi cfavlmlqgq ensyspwgaf ttflmnlstc ldvvlyyivs kqfqarvisv
 301  mlyrnylrsv rrksvrsgsl rslsnmnsem l
```