

Specifications:

Gene:	<i>h</i> PRKCE
Accession:	NP_005391.1
Insert size:	2227bp
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.

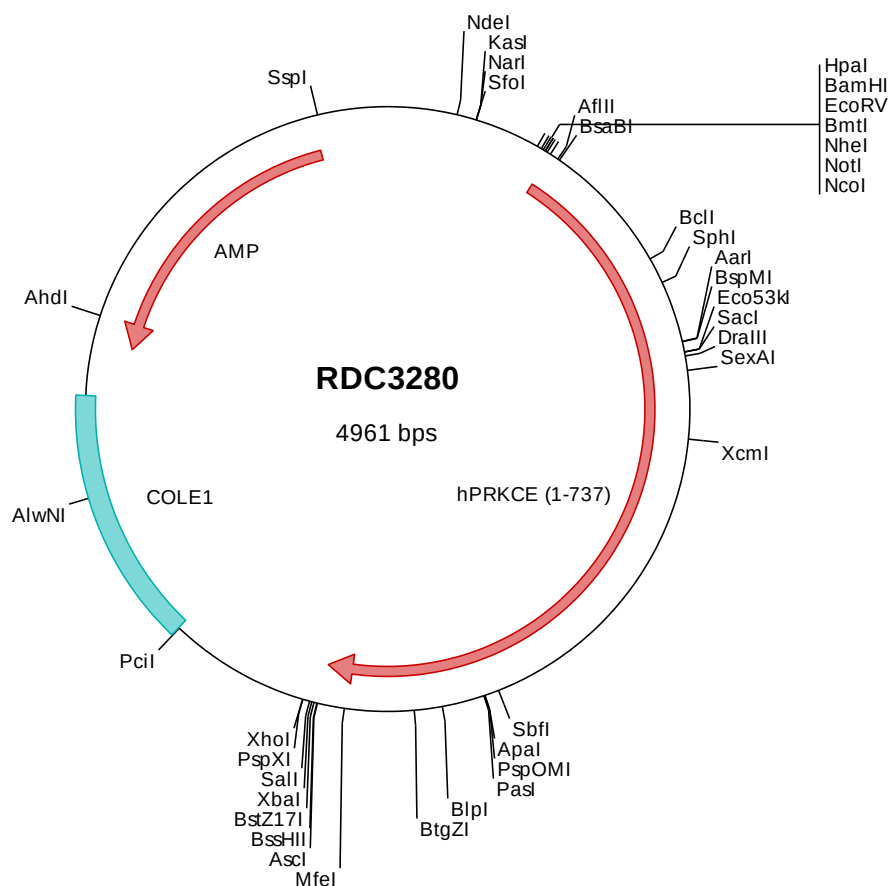
*h*PKC epsilon cDNA Plasmid

PRKCE protein kinase C epsilon
[*Homo sapiens* (human)]

Also known as: PKCE; nPKC-epsilon

Summary:

PRKCE belongs to the protein kinase C (PKC) family. They are a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. PRKCE has been shown to be involved in many different cellular functions, such as neuron channel activation, apoptosis, cardioprotection from ischemia, heat shock response, as well as insulin exocytosis. Knockout studies in mice suggest that PRKCE is important for lipopolysaccharide (LPS)-mediated signaling in activated macrophages and may also play a role in controlling anxiety-like behavior.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3280 Plasmid DNA Sequence

```

1  tcgcgcgcttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccc
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaagg  ggaatgtctg  caaggcgatt  aagttgggta  agccagggt  tttcccgatc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggaatcgata  tcgctagcgc  ggccgcaccc  atggtagtgt  tcaatggcct  tottaagatc  aaaaatcgcg  aggcgctgag
501  cttgaagccc  acagcctggt  cgtctgcgca  tgcggtggga  ccccgccccc  agactttcct  tctcgacccc  tacattgccc  tcaatgtgga  cgaactcgcg
601  atcggccaaa  cggccaccaa  gcagaagacc  aacagcccg  cctggcagca  cgagttcgte  accgatgtgt  gcaacggagc  caagatcgag  ctggctgtct
701  ttccagatgc  ccccatagc  taagcagact  tcgtggccaa  ctgcacatc  cagtttgagg  agctgctgca  gaacgggagc  cgccacttcg  aggactggat
801  tgatctggag  ccagaaggaa  gagtgtatgt  gatcatgat  ctctcagggt  cgtcgggtga  agccccataa  gacaaatga  agcgtgtgtt  cagggaacgc
901  atcggccgca  ggaagcggca  gggggccgct  agggcgagg  tccatcaggt  caacggccac  aagttcatgt  ccacatatct  tcggcagccc  acctactgtc
1001  cccattcgag  agacttcatc  tgggtgtgca  taggaaagca  taggtggcga  aggcacatc  agctttgagg  gcacctgctg  ggtccacaag  cggtgccacg  agctcataat
1101  cacaagtggt  gctgggttaa  agaagcagga  gacccccgac  caggttgggt  cccagcggtt  cagcgtcaac  atgccccaca  agttcggtat  ccacaactac
1201  aaggtcccta  cctctcgca  tcaactgtgg  tccctgtct  ggggactct  cgggacatgc  aggaatcgcc  cggacgtggg  cgttacccca  agtgcacaa  aatgaatgtt  caccgtogat
1301  ctgagaccaa  cgtggctccc  aactgtggag  tggatggcga  aggaatcgcc  cagcctgctt  ctggaagctc  accatctgag  gaagatcgat  ccaagtacgc  acccactccc  tctcctgatc
1401  ccagagaagg  aaaaagctca  ttgctggtgc  cgagtcctcg  cagctgctgt  gaaagcctt  gtcatttgac  aaccgaggag  aggagcaccg  ggcagcatcg  tctcctgatc  ttctctgatc
1501  ccttgtgacc  aggaataaaa  agaacttgag  aacaacatc  aggcacatc  aagcgcctgg  gcctggatga  gttcaacttc  atcaagtggt  ttggcgaagg  ttggcgaagg  ttggcgaagg
1601  ccagctgat  gagcccggt  tagaatggcg  aagtcgggca  caaggcga  gatgaatgat  atgctgtgaa  ggtcttaaa  aaggacgtca  tctctcagga  tgatgacgtg  cgcctctttt
1701  cagctttggc  aaggtcatgt  tggcgaact  gctctggc  ggaacaccc  gtaacctacc  caactctact  gctgttcca  gaccagggag  ttctatgtct  gctgtgtgac  gatgacgtgc
1801  gctgcacaa  tgacagagaa  gaggattttg  gctctggc  ggaacaccc  gtaacctacc  caactctact  gctgttcca  gaccagggag  ttctatgtct  gctgtgtgac  gatgacgtgc
1901  tagtcatgat  atgttctctc  accagcatgg  agtcatctac  agggatttga  ccacacgtt  ctgtgggact  cctgactaca  tagctcctga  gatctcga  gagtgtgagt  ggtgtgagt
2001  atcggccctc  ctaaggagg  gttcttgaat  ggtgtgacga  ccacacgtt  ctgtgggact  cctgactaca  tagctcctga  gatctcga  gagtgtgagt  ggtgtgagt  ggtgtgagt
2101  ttggggtgt  gcaaggagg  gttcttgaat  ggtgtgacga  ccacacgtt  ctgtgggact  cctgactaca  tagctcctga  gatctcga  gagtgtgagt  ggtgtgagt  ggtgtgagt
2201  atcggccctc  ctaaggagg  gttcttgaat  ggtgtgacga  ccacacgtt  ctgtgggact  cctgactaca  tagctcctga  gatctcga  gagtgtgagt  ggtgtgagt  ggtgtgagt
2301  gtccatctc  catgacgag  tgcgttacc  agtctggtc  agcaaggagg  ctgtcagcat  cttgaaagct  ttcatgacga  agaattccca  caagcgcctc  caagcgcctc  caagcgcctc
2401  gctgtgtg  catgcagaa  tggcagggac  gccatcaagc  agcaacctat  attgactggg  ttgactcggg  ggtactcacc  cttgtggagc  aagcaattgt  aagcaattgt  aagcaattgt
2501  ccttcaaac  acgcatata  accaaaggag  gcctcaata  ttgtgacaa  gactttacc  ggaagagcc  ggaagagcc  ggaagagcc  ggaagagcc  ggaagagcc  ggaagagcc
2601  aaagcagat  aaccaggagg  aattcaagg  tttctcctac  ttgtgtgaag  acctgatgcc  cttaaaggcg  gccagtatac  tctagagtcg  acaccgggg  acaccgggg  acaccgggg
2701  aattctctga  gcgctcgtct  ctacgttggc  gtaactatgc  tcatagctgt  ttctgtgtg  aaattgttat  cgcctcaca  ttccacacaa  catacagacc  catacagacc  catacagacc
2801  ggaagcataa  agtgttaagg  ctgggggtgc  taatgagtga  gctaactcac  attaatgtgc  ttgcgctcac  tgcccgcttt  ccagtcggga  aacctgtcgt  aacctgtcgt  aacctgtcgt
2901  ccagctcgca  ttaatgaatc  ggcccaacgc  cggggagagg  cggttttgcg  attgggcgct  ctcccgcttc  ctgcctcact  gactcgtcgc  gctcgtcgt  gctcgtcgt  gctcgtcgt
3001  tcgctcgca  cgagcggtat  aaagcggtta  atacggttat  ccacagaatc  aggggataac  aggggataac  atcagcagag  atcagcagag  atcagcagag  atcagcagag  atcagcagag
3101  caaaaggcca  ggaaccgtaa  aaaggccg  ttgctgctgc  ttttccatag  gctccgcccc  cctgacgagc  atcagcagag  atcagcagag  atcagcagag  atcagcagag  atcagcagag
3201  ggccaaaccc  gacagagcta  taagataacc  aggcgtttcc  ccttggaagc  tcctcgtg  gctcctcgt  tccgacctgc  ccgcttaccg  gatacctgtc  gatacctgtc  gatacctgtc
3301  cgcctttccc  ccttcgggaa  cgttcgctgc  ttctcaatgc  tcacacgtga  ggtatctcag  ttgctgtgag  gctcgttgc  ccaagctggg  ctgtgtgac  ctgtgtgac  ctgtgtgac
3401  gaaccccc  ttcagccga  ccgctcgc  ttatccgcta  actatcgtct  tgagttccaa  ccggttaagac  acgacttatc  gccactggca  gcagccactg  gcagccactg  gcagccactg
3501  gtaacagat  tagcagagcg  aggtatgtag  gcggtgctac  agagttcctg  aagttgtg  ctaactacag  ctacactaga  aggacagtat  ttggtatctg  ttggtatctg  ttggtatctg
3601  cgctcgtctg  aagccagtta  ccttcggaaa  aagagttggt  agctcttgat  agctcttgat  aaccacgct  ggtagcgtg  ggtagcgtg  ggtagcgtg  ggtagcgtg  ggtagcgtg
3701  cagattacgc  gcagaaaaaa  aggatctcaa  gaagatcctt  tgatctttt  taagggttct  gacgctcagt  ggaacgaaa  ctcacgttaa  gggattttg  gggattttg  gggattttg
3801  tcatgagatt  atcaaaaagg  atcttcacct  agatcctttt  aaattaaaaa  tgaagtttta  aatcaatcta  aagtatatat  gagtataact  ggtctgacag  ggtctgacag  ggtctgacag
3901  ttaccaatgc  ttaatcagtg  aggcacctat  ctoacgctgc  tgctatttc  gttcatccat  agttgcctga  ctccccgtc  tgtagataac  tacgatacag  tacgatacag  tacgatacag
4001  gagggcttac  catctggccc  cagtgtgca  atgataccgc  gagaccacg  ggtctattat  ttgttgcggg  cagctcggg  ccagatttat  cagcaataaa  ccagccagcc  ccagccagcc  ccagccagcc
4101  agcgcagaa  ttgctcgtca  actttatccg  cctccatcca  gctctatta  ttgttgcggg  aagctagagt  aagtagttcg  aagtagttcg  aagtagttcg  aagtagttcg  aagtagttcg
4201  cgtttgttgc  attgtcacag  gcactgtggt  gtoacgctgc  togttttgta  ttgcttcatt  cagctcggg  cagctcggg  cagctcggg  cagctcggg  cagctcggg  cagctcggg
4301  cccatgttgt  gcaaaaaagg  ggttagctcc  ttccgtctc  cgtcgttgt  cagaagtaag  ttggcccgag  ttggcccgag  ttggcccgag  ttggcccgag  ttggcccgag  ttggcccgag
4401  ataattctct  tactgtcatg  ccactccgta  gatgttttc  tgtgactggt  tgtagtact  ccaagtcatt  ccaagtcatt  ccaagtcatt  ccaagtcatt  ccaagtcatt  ccaagtcatt
4501  ctcttgccgc  gcgtcaatc  gggataatc  agcgcacat  agcagaact  taaaagtgt  catcattgga  aaacgttctt  aaacgttctt  aaacgttctt  aaacgttctt  aaacgttctt
4601  atcttaccgc  tgttgagatc  cagttcgatg  taacccactc  gtgacccaa  ctgatcttca  gcatcttcta  ctctctct  ctctctct  ctctctct  ctctctct  ctctctct
4701  caggaaagca  aaatgccgca  aaaaagggaa  taaggcgac  acggaatgt  tgaatactca  tactctct  tactctct  tactctct  tactctct  tactctct
4801  ttattgtctc  atgagcggat  acatatttga  atgtatttag  aaaaataaac  aatagtggt  tccgcgcaca  tttcccgaa  aagtgccacc  aagtgccacc  aagtgccacc
4901  gaaaccatta  ttatcatgac  attaacctat  aaaaataggc  gtatcacag  gccctttcgt  c

```

> RDC3280 Translated Insert Sequence

```

1  mvvfngllki  kiceavslkp  tawslrhavg  prpqtflldp  yialnvddsr  igqtatkqkt  nspawhdefv  tdvcnrgkie  lavfhdapig  yddfvantci
101  qfeellngns  rhfedwidle  pegrvyviid  lsgssgeap  dneervfrer  mrprkrqgav  rrrvhqvngh  kfmatyrlrp  tycshcrdfr  wgvigkgyq
201  cvqctcvvhk  rcheliitkc  aglkkqetpd  qvgsqrfsvn  mphkfghiny  kvptfcdhcg  sllwlllrqg  lqckvckmnv  hrrcetrnvp  ncgvargia
301  kvladlgvtp  dkitsngqrr  kkliagaesp  qpasgssps  edrksapts  pcdqeikele  nnirkalsfd  nrgeehraas  spdggllmspg  engevrggga
401  krlgldefnf  ikvlgkgsfg  kvmlaelkgk  devyavkvk  kdvlqdddv  doctmekril  alarkhpylt  glyccfqtgd  rllffvmevyn  ggdlmfqir
501  srkfdprsr  fyaaevtsal  mflhghgviv  rdlkldnill  daeghcklad  fgmckegiln  gvttttfcgt  pdyiapeilg  eleygpsvdw  walgvlyem
601  magppfead  neddlfesil  hddvlypvwl  skeavsilka  fmtknphkrl  gcvasqnged  aikqhpffke  idwvllqkk  ikppfkprik  tkrdvnnfdq
701  dftreepvlt  lvdeavivqi  nqeefkgyfs  fgedlmp

```