

Specifications:

Gene:	pACE2
Accession:	NP_001116542.1
Insert size:	3153bp
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

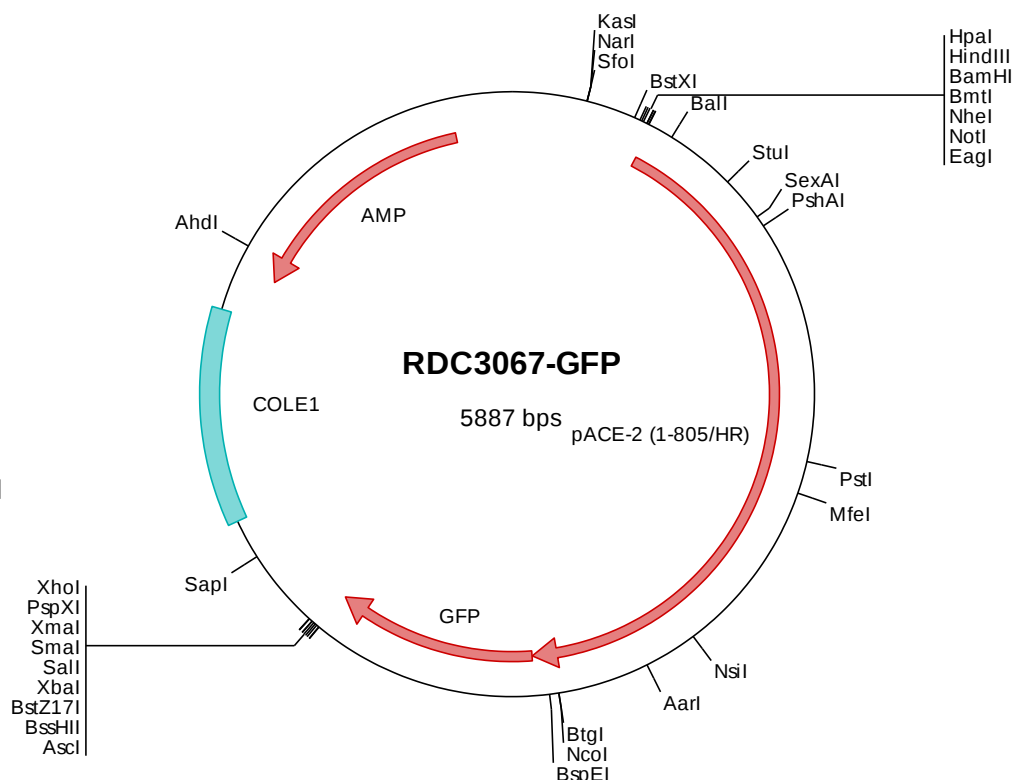
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

pACE-2 cDNA Plasmid

ACE2 angiotensin I converting enzyme 2 [*Sus scrofa* (pig)]

Summary:

ACE-2 belongs to the angiotensin-converting enzyme family of dipeptidyl carboxypeptidases. It is a secreted protein that catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. The organ- and cell-specific expression of ACE-2 suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, ACE-2 is a functional receptor for the spike glycoprotein of the human coronavirus HCoV-NL63 and the human severe acute respiratory syndrome coronaviruses, SARS-CoV and SARS-CoV-2 (COVID-19 virus).



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3067-GFP Plasmid DNA Sequence

```

1  tcgcgcgcttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacgggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccg
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tctgagctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtg  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctcgcc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgcccagct  ggcgaaaagg  ggatgtgctg  caaggcgatt  aagttgggta  agcccgagggt  tttcccgatc  acgacgttgt  aaaacgacgg  ccagtgaaat
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgccaacc  atgtcaggct  ctttctgggt  cttctcagc  ctcatctcgt  taactgtctgc
501  tcagtcacacc  actgaggaaac  tggccaagac  atttttggag  aagtttaaac  ttgaagccga  agacctggct  tatcaaatgt  cacttgcctc  ttggactatt
601  aacaccaata  ttaccgatga  gaatatccaa  aagatgaatg  atgccagggc  caaatgggtct  gccttttacg  aagaacaatc  tcggattggc  aaaaagtatc
701  cactagatga  aatccagact  ctcaactca  gcaggccttg  gcaggccttg  cagcagagtg  gaacatcagc  gctctcagca  gacaagagca  aacgattgaa
801  tacaattcta  aacacaatga  gcaccatcta  cagtagtggt  aaagttttgg  acccaataaa  tcgcgaggag  tgcttagtac  ttgaaccagg  ttggatgag
901  atcatggaag  acagcaagga  ctacagtctg  aggcctctgg  cttgggaaag  gactactgga  gaggtcggca  agcagctgag  gccgttgatg  gaagagtacg
1001  ttggtcctgga  aatgagatg  gcaagagcca  acaattatga  ggactacggg  gactactgga  gaggggatta  tgaagtgaac  gggacagggg  actatgacta
1101  cagccgtaac  cagttgatgg  aagatgtgga  gcgaaccttc  gcagagatca  aacctattgt  tgaacatctt  catgcctacg  tgaggggcaa  gttgatggat
1201  gcttaccctt  cccggatcag  tccgactggc  tgctccctgt  ctctatttgc  tctctgggat  tggggtagat  tttggacaaa  ctgtatccct  ttgacagtcc
1301  ccttcggaga  gaaaccaggc  atagatgtta  ctggaataac  tccatgtctaa  tggcgatgat  caataaggat  attcaggagg  attcaggagg  tctttgtgtc
1401  taattggtctc  cctaatatga  ctcaaggatt  ctggaataac  tccatgtctaa  tggcgatgat  caataaggat  attcaggagg  attcaggagg  tctttgtgtc
1501  ttgggggaagg  gtgacttcag  gatcaaatg  tgcaaaaaa  tgacgatgga  tgacttctgt  acagcgatc  acgagatggg  acacatccag  tatgacatgg
1601  cttatgcact  cagctcgact  atggcgact  atggcgact  atggcgact  atggcgact  atggcgact  atggcgact  atggcgact  atggcgact
1701  ttgaaagcct  cttggtcttc  tgccactga  tttttatgaa  gacagtgaag  cggaaataaa  ctctctcttc  aaacaagcgc  ttacaattgt  tgggacgcta
1801  cgttttaact  acatggttag  aaagtggcgg  ttggtgtgtg  ttaaggcgca  aattcccaaa  gagcagtggg  tgcaaaagt  tggggagatg  aagcgagaga
1901  tagttggggg  agttgaaact  agtgcctg  atgcaacgta  ctgtgacccc  gcatgtctgt  tccatgtttg  tgaagactac  gtgttcaccc  gatattacac
2001  aaggaccatt  tatcagttcc  agtttcatga  agtcttctgt  cgaacagcta  aacatgaagg  tccccctgac  aaatgtgata  tctcaaatcc  cactgaagct
2101  gggcagaagc  tgctacaaat  gcttgacett  ggttgacct  ggttgacct  ggttgacct  ggttgacct  ggttgacct  ggttgacct  ggttgacct
2201  ttgctcagct  cttcagcgcc  ttctgacct  ttctgacct  ttctgacct  ttctgacct  ttctgacct  ttctgacct  ttctgacct  ttctgacct
2301  catcaaatgt  aggaataagg  taaaatacgc  tcttgagaga  gatgcataat  aatggaatga  caatgaaatg  tatctgttcc  ggtcatctat  tgctcaccgc
2401  atgagaagat  atttttcagg  tgccaaaat  gagaccatcc  ttctgacct  ttctgacct  ttctgacct  ttctgacct  ttctgacct  ttctgacct
2501  ttgtacacct  acctgccaac  atgtctgaca  tcaattccag  aagtgcagct  cagtagagcc  acctgtccac  caagcagcga  agaatctccc  ctttccgctc
2601  ggatgacaa  acctggagtt  ttctgggatt  tcagccgacg  ctgggacgct  cagtagagcc  acctgtccac  caagcagcga  agaatctccc  ctttccgctc
2701  ggaattggtg  ttgtgggtat  cgtctgtctc  atcttccacg  ggatcagcga  ttgacagact  atctcagact  gctccgagcg  acctgtgacc  gcacctctct
2801  ttgacttgag  taaaggagaa  agtaattccg  gattccaaaa  ttgacagact  atctcagact  atctcagact  gctccgagcg  acctgtgacc  gcacctctct
2901  cggggtgtgt  cccatctctg  tcagagctga  cggcgacgta  aacggccaac  agttcagcgt  gctccgagcg  acctgtgacc  gcacctctct  gcacctctct
3001  accctgaagt  cctctgtcac  ctcggcgacg  cctggccgac  cctggccgac  cctggccgac  cctggccgac  cctggccgac  cctggccgac  cctggccgac
3101  accacatgaa  gcagcagcag  ttcttcaagt  cgcacaccc  cgcacaccc  cgcacaccc  cgcacaccc  cgcacaccc  cgcacaccc  cgcacaccc
3201  cgcagagctg  aagttctcag  gctacaccc  ggtgaaacgc  atcagagctg  agggcatcga  atctcagact  gacggcaaca  tcttggggca  caagctggag
3301  tcacaactca  acgcgcaaaa  cgtctatctc  atggccgaca  agcagaagaa  gtgctgtctc  cgcacaccc  cgcacaccc  cgcacaccc  cgcacaccc
3401  tgcagctcgc  cgaccactac  cagcagaaca  cccccatcgg  cgcagcgcgc  gtgctgtctc  cgcacaccc  cgcacaccc  cgcacaccc  cgcacaccc
3501  agaccccaac  gagaagcgcg  atcacatggt  cctgtctgag  ttctgtcagc  cgcacaccc  cgcacaccc  cgcacaccc  cgcacaccc  cgcacaccc
3601  gtataactcta  gactcgacac  ccggggaatt  cctcgagcgc  tctgtctctg  ttctgtcagc  cgcacaccc  cgcacaccc  cgcacaccc  cgcacaccc
3701  tcacaattcc  acacaacata  cgagccggaa  gcataaagt  taaagcctgg  ggtgcctaat  gagtgagcta  actcacatta  attgcgttgc  gctcactgcc
3801  cgctttccag  tcgggaaacc  ttgtctgcca  gctgcattaa  tgaactcgcc  aacgcgcggg  gagagggcgt  ttgcgtattg  ggcgctcttc  cgcttctcgc
3901  ctactgact  cgctgcgctc  ggtcgttccg  ctgcgctcag  cggatcagcg  cggatcagcg  cggatcagcg  cggatcagcg  cggatcagcg  cggatcagcg
4001  gaaagaacat  gtgagcaaaa  ggccagcaaa  agggcaggaa  ccgtaaaaag  gccgcgttgc  tggcgctttt  ccataggctc  cgccccctgc  acgagcatca
4101  caaaaaatga  cgctcaagtc  agaggtggcg  aaaccgcaca  ggactataaa  ggcgctttct  gtttccccct  ggaagctccc  tcgtgctcgc  tctgttccgc
4201  accctgcgcg  ttacccgata  cctgtccgct  ttctcccttc  cgggaagcgt  ggcgctttct  gtttccccct  ggaagctccc  tcgtgctcgc  tctgttccgc
4301  ttctgtccaa  gctgggctgt  gtgcacgaac  cccccgttca  gccgcagcgc  tgcgccttat  ccggttaacta  tcgtcttgag  tccaaccocg  taagacacga
4401  cttatcgcca  ctggcagcag  ccaactgtaa  caggattagc  agagcgaggt  atgtgagcgg  tgctacagag  ttcttgaagt  ggtggcctaa  cctcgctcac
4501  actagaagca  cagtatttgg  tatctgcgt  ctgctgaagc  cagttacact  agtgaagaa  gttggtagct  ctgacccg  cttgatccgg  ggtgtctgac
4601  gcggtggttt  ttttgtttgc  aagcagcaga  ttacgcgcag  aaaaaaagga  ttaactagat  taactagat  taactagat  taactagat  taactagat
4701  cgaaaactca  cgttaaggga  ttttggtcat  ttttggtcat  ttttggtcat  ttttggtcat  ttttggtcat  ttttggtcat  ttttggtcat  ttttggtcat
4801  atatatgat  aaacttggct  tgacagttac  tgaactggag  tggccccagt  tggccccagt  tggccccagt  tggccccagt  tggccccagt  tggccccagt
4901  cgtcgtgta  gataactacg  atacgggagg  gcttaccatc  cagaagtgtg  ctctgcaact  ctacagagct  cgtggtgtca  agctccttgc  gtcctccgat
5001  aataaaccag  ccagccggaa  gggccgagcg  ggttgcattg  ttctcttact  ttctcttact  ttctcttact  ttctcttact  ttctcttact  ttctcttact
5101  agttcgcgag  ttaattggtt  gcgcaacgct  gttgccattg  ttcccgccgt  ttcccgccgt  ttcccgccgt  ttcccgccgt  ttcccgccgt  ttcccgccgt
5201  aacgatcaag  gcgagttaca  tgatccccc  tgttgtgcaa  ttttgttact  ttttgttact  ttttgttact  ttttgttact  ttttgttact  ttttgttact
5301  atcactcatg  gttatggcag  cactgcataa  tgcccgccgt  ttcccgccgt  ttcccgccgt  ttcccgccgt  ttcccgccgt  ttcccgccgt  ttcccgccgt
5401  gaatagtgt  tgccggcgacc  gagttgtctc  ttcccgccgt  ttcccgccgt  ttcccgccgt  ttcccgccgt  ttcccgccgt  ttcccgccgt  ttcccgccgt
5501  gttcttcggg  gcgaaaactc  tcaaggatct  taccgctgtt  taccgctgtt  taccgctgtt  taccgctgtt  taccgctgtt  taccgctgtt  taccgctgtt
5601  caccagcgtt  tctgggtgag  caaaaaacag  aaggcaaaat  gccgcaaaaa  agggcaaaat  agggcaaaat  agggcaaaat  agggcaaaat  agggcaaaat
5701  caatatatt  gaagcattta  tcagggttat  tgtctcatga  cgggatacat  atttgaatgt  atttgaatgt  atttgaatgt  atttgaatgt  atttgaatgt
5801  cccgaaaagt  gccacctgac  gtctaagaaa  ccattattat  catgacatta  acctataaaa  acctataaaa  acctataaaa  acctataaaa  acctataaaa

```

> RDC3067-GFP Translated Insert Sequence

```

1  msgsfwllls  lipvtaaqst  teelaktfle  kfnleaedla  yqslaswti  ntnitdeniq  kmndarakws  afyeeqsria  ktypldeiqt  lilkrqlqal
101  qsgtsglsa  dkskrlntil  ntmstiyssg  kvldpnpqg  clvlepgle  imenskdysr  rlwaweswra  evgkqlrply  eeyvvlenem  arannyedyg
201  dywrgdyevt  gtgdydysrn  qlmedvertf  aekfplyehl  hayvraklmd  aypsrissptg  clpahllgdm  wgrfwnllyp  ltvpfgekps  idvteamvng
301  swdairifee  aekffvisgl  pnmrtqgfwnn  smltpepgdr  kvvchptawd  mnyyffsaks  ctkvtmddfl  tahhemghiq  ydmayaiqpy  llrnganefg
401  heavgeimsl  saatphylka  lgllppdfye  dseteinfll  kqaltivgtl  pftymlekwr  wmvfkgeipk  eqwmqkwem  kreivgvvpe  lphdetycdp
501  acclfhvaedy  sfiryytrti  yqfqlhealc  rtakhegply  kcdisnstea  gqklqlmlsl  gksepwtllal  enivgvktmd  vkpilsyfep  lltlwkaqng
601  nssvgwntd  tpyadgsikv  rislksalge  dayewndnem  ylfrrssiaga  mnyyffsaks  etipfgavdv  wvrdlkpris  fnffvtspan  msdiiprsvd
701  ekaismsrsl  indafrlddn  tleflgiqpt  lgppdeppvt  vwliifgvvm  glvvvgivlv  iftgirdrrk  kkqasseenp  ygsmdlskge  snsgfngnnd
801  iqtstfhrmvs  kgeelftgvv  pilvelldgv  nghkfsvsge  gegdatygkl  tlkficttgk  lvpvptlvt  tlygvqocfs  rypdhmkghd  ffskamepgy
901  vqertiffkd  dgnyktraev  ielkgidfke  dgnilghkle  ynynshnvyi  madkqkngik  vnfkirhnie  dgsvqladhy  qnntpidgdp
1001  villpdnhyls  tqsalakdnp  ekrdhmvll  fvtaagitlg  mdelyk

```