

Specifications:

Gene:	<i>hLRRC52</i>
Accession:	NP_001005214
Insert size:	955bp
Concentration:	10µg at 0.2µg/µL

*h*LRRC52 cDNA Plasmid

**LRRC52 leucine rich repeat
containing 52 [*Homo sapiens*
(human)]**

Summary:

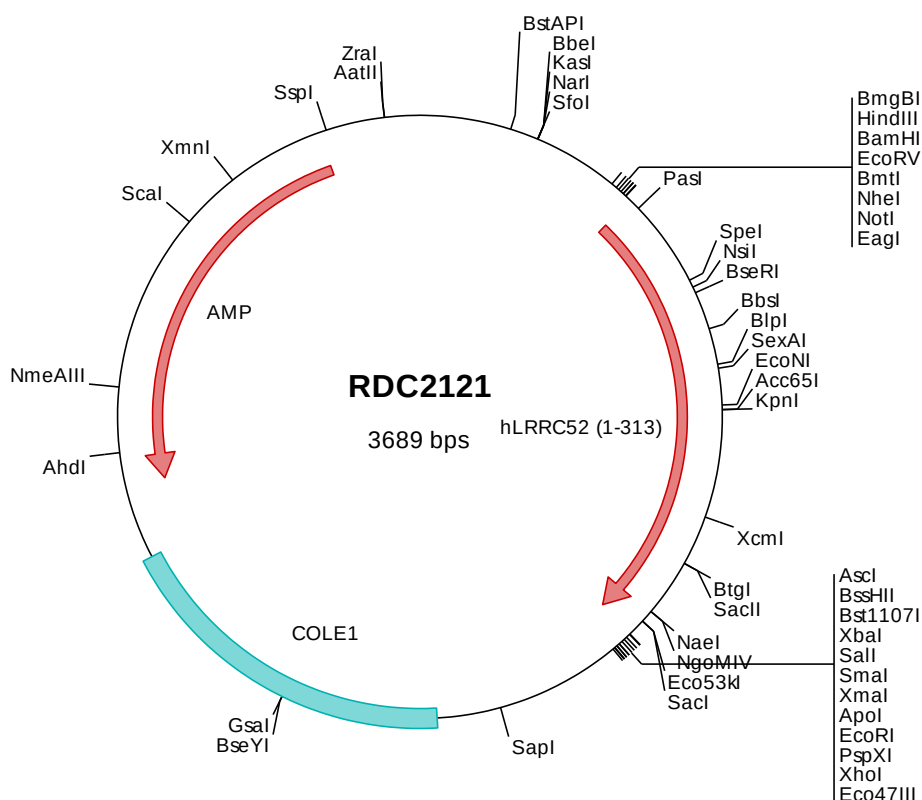
LRRCS2 is an auxiliary protein of the large-conductance, voltage and calcium-activated potassium channel (BK alpha). It modulates gating properties by producing a marked shift in the BK channel's voltage dependence of activation in the hyperpolarizing direction, and in the absence of calcium. It is mainly expressed in testis and skeletal muscle.

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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2121 Plasmid DNA Sequence

```

1  tcgcgcgctt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacggtca  cagcttgctc  gtaagcggat  gccgggagca  gacaagcccc
101  tcagggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctcgcg  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaagg  ggaatgtctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgccaac  atgtcccttg  cttcaggccc  tggccctggg  tggttactct  tttcccttgg
501  aatggggctg  gtatcagggt  caaagtgtcc  aaataattgt  ctgtgtcaag  cccaagaagt  aatctgcaca  gggaagcagt  taaccgaata  ccccttgac
601  atacccttga  acaccgggag  gctgttctct  aacgagaaca  gaatcactag  tttgccagca  atgcattctg  gactcctcag  tgacctgttt  tatttggact
701  gtcagaacaa  ccggtattcg  gaggtgatgg  atttatcctt  catcggggtc  ttcaaaactc  tctacettga  cctcagctcc  aacaaacctaa  cctcgatctc
801  cccattcaact  ttctcgggtg  tcagcaacct  ggtgcagctg  aacattgcc  acaacctca  cctgttatcg  cttcacaagt  tcacctttgc  caaccaccac
901  totttgaggt  acctggacct  cagaaatacc  ggtgtgcaga  ccttgacag  tgcgtgcotta  taccacctca  ctactctgga  gacctgtttt  ctgagtggaa
1001  atcccttgaa  ctgtcaactg  actttccttg  acttcgcat  ccttcgcat  ttggaacctc  agatgatcta  aatgccaat  gtgtggagcc  cctgctgctc
1101  caccagagctg  acagggtggc  ccatcaccgc  agtggggaac  ccatcctgat  acatgtgcat  caccgacctg  gaccacaaag  actacatott  cctgctgctc
1201  atcggtcttc  gcatcttctg  cggcggaact  gtggtgcctt  ggctcacagg  tgtgtgtgct  gtgtcttacc  agaacaccgc  ccacaagtgc  agtgaagaag
1301  atgaggacga  ggccgggaag  tcagcgggag  gatttttcaa  acccagacga  acccagacga  gctcgttccc  ggagttccct  ggagttccct  aaaggcgctc
1401  cagtatactc  tagagtcgac  acccggggaa  ttctcgcagc  gctcgtctct  agcttgccgt  aatcatggtc  atagctgttt  cctgtgtgaa  attgttatcc
1501  gctcacaact  ccacacaaca  tcagagccgg  aagcataaag  tgtaagacct  ggggtgccta  atgagtgcgc  taactcacat  taattgcgtt  gcgctcactg
1601  ccgcttttcc  agtcgggaaa  cctgtcgtgc  cagctgcatt  aatgaatcgg  ccaacgcgcg  gggagaggcg  gtttgcgtat  tgggcgctct  tccgcttcc
1701  cgctcactga  ctgcctcgcc  tcggtcgttc  ggtcgcgcgc  agcggatata  gctcactcaa  agcgggtaat  acggttatcc  acagaatcag  gggataacgc
1801  aggaagaagc  atgtgagcaa  aaggccagca  aaaggccagg  aaccgtaaaa  agggccgctt  gctggcgttt  ttccataggg  tccgcccccc  tgacgagcat
1901  cacaaaaatc  gacgctcaag  tcagaggtgg  ctagaggtgg  ctaaaaccga  ctagactata  aagataccag  gcgtttcccc  ctggaagctc  cctcgtgcgc  tctcctgttc
2001  cgacctgccc  gcttaccgga  taactgtccc  ctttctcccc  ttccgggaag  gtggcgcttt  ctcaatgctc  acgctgtagg  tatctcagtt  cgggtgtagg
2101  cgttcgtccc  aagctgggct  gtgtgcacga  acccccgtt  cagcccgacc  gctgcctct  atccggtaac  tatcgtcttg  agtccacccc  ggtaagacac
2201  gacttatcgc  cactggcagc  agccactggt  aacaggatta  gcagagcgag  gtatgtaggc  ggtgctacag  agttcttgaa  gtggtggcct  aactacggct
2301  acactagaag  gacagtattt  ggtatctgct  ctctgctgaa  gccagttacc  ttccgaaaaa  gatgttgtag  ctcttgatcc  ggcaaacaaa  ccaccgctgg
2401  tagcgggtgt  ttttttgggt  gcaagcagca  gattacgcgc  agaaaaaaag  gatctcaaga  agatcccttg  atcttttcta  cggggtctga  gcctcagttg
2501  aacgaaaaat  cagcttaagg  gattttgggt  atgagattat  caaaaaggat  cttcacctag  atccctttta  attaaaaatg  aagtttttaa  tcaatctaaa
2601  gtatatatga  gtaaaacttg  tctgacagtt  accaatgctt  aatcagtgag  gcacctatct  cagcgatctg  tctatttctg  tcattccatag  ttgcctgact
2701  cccgctcgtg  tagataacta  ctgatacggg  gggcttacc  tctggcccca  gtgctgcaat  gataccgcga  gaccacgctc  caccgctcc  agatttatca
2801  gcaataaaac  agccagccgg  aagggccgag  cgcagaagtg  gtccctgaac  tttatccgcc  tccatccagt  ctattaattg  ttccggggaa  gctagagtaa
2901  gtagtccgcc  agttaaatgt  ttgcgcaacg  ttgttgccat  tgctacaggg  atcgtgtgtg  cacgctcgtc  gtttggtatg  gcttcattca  gctccggttc
3001  ccaacgatca  aggcgagtt  catgatcccc  catgttgtgc  aaaaaagcgg  ttagctcctt  cggctcctcc  atcgttgtca  gaagtaagtt  ggccgcagtg
3101  ttatcactca  tgggttatgg  agcactgcat  aattctctta  ctgtcatgcc  atccgtaaga  tgcttttctg  tgactggtga  gtactcaacc  aagtcattct
3201  gagaatagtg  tatcgggcga  ccgagttgct  cttgcccggc  gtcaatacgg  gataatacgg  cggccatag  cagaacttta  aaagtgtctc  tcattggaaa
3301  acgtttctcg  gggcgaaaac  tctcaaggat  cttaccgctg  ttgagatcca  gttcgatgta  acccactcgt  gcaccaact  gatcttcagc  atcttttact
3401  ttcaccagcg  tttctgggtg  agcaaaaaa  ggaaggcaaa  atgcccga  aaagggaata  agggcgacac  ggaaatgttg  aatactcata  ctcttccctt
3501  ttcaatatta  ttgaagcatt  tatcagggtt  attgtctcat  gagcggatc  atatttgaat  gtatttagaa  aaataaaca  atagggggtc  cgcgcacatt
3601  tccccgaaaa  gtgccacctg  acgtctaaga  aaccattatt  atcatgacat  taacctataa  aatatggcgt  atcacgagcg  cctttcgtc

```

> RDC2121 Translated Insert Sequence

```

1  mslasgpppg  wllfsfgmgl  vsgskcpnnc  lcqagevict  gkqlteypld  iplntrrlfl  nenritslpa  mhlglldslv  yldcqnrrir  evmdytfigv
101  fkliylidlss  nnltisipft  fsvlslnlvql  niannphlls  lkhkftfamt  slryldlrnt  glqtltdsaal  yhlttletlf  lsgnpwkenc  sfldfaifli
201  vfhmddpddl  natcveptel  tgwpitrvgn  plrymcithl  dhkdyiflll  igfcifaagt  vaawltgvca  vlyqntrhks  seededeaht  rvevsrrrif
301  tqtsvqefp  qli

```