

Specifications:

Gene:	<i>h</i> LRRC55
Accession:	NP_001005210.2
Insert size:	910bp
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

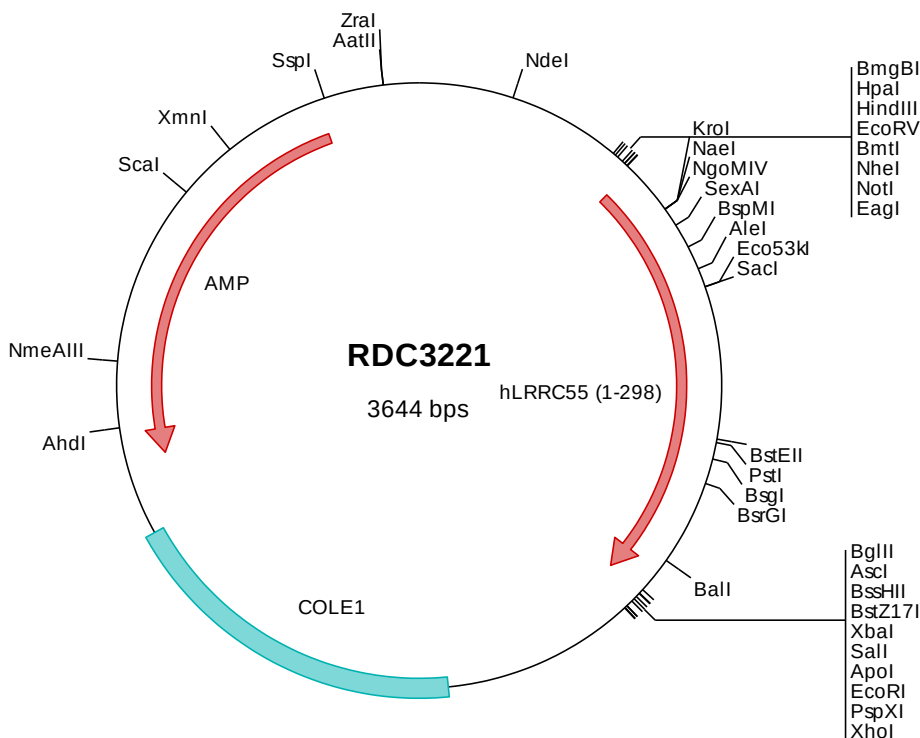
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*LRRC55 cDNA Plasmid

**LRRC55 leucine rich repeat
containing 55 [*Homo sapiens*
(human)]**

Summary:

LRRC55 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.



> RDC3221 Plasmid DNA Sequence

```

1  tcgcgcgctt cggatgatgac ggtgaaaaac tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcg aactgttggg aagggcgatc ggtcggggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgggtgaca cttgggcca gtttccttg cctgggcca ctcacccagc
501  aatgctgctg atctccctcc tcttggcagc cgggttgatg cactcgatg ccgcacccag ctgccccctc ctttgacat gccgtaacca ggtgtgggat
601  tgtagcagcc agcggctatt ctcogtgcct ccagacctgc caatggacac ccgaaacctc agcctggccc acaaccgcat cacagcagtg ccgcctggct
701  acctcacatg ctacatggag ctccagtggc tggatttgca caacaactcc ttaatggagc tgccccgggg cctcttcttc catgccaaag gcttggcaca
801  cttggacctg agctacaaca atttcagcca tgtgccagcc gacatgttcc aggaggccca tgggctagtc cacatcgacc tgaaccacaa ccogtggctg
901  cggaggggtg atccccaggc ctttcagggc ctcactgcgc tcogagacct ggacctcagt tatggggggc tggccttctc cagcctggag gctcttgagg
1001 gcctaaaggat accaggcgct ccccgatcgc gtggcaatcc gtgggtgtgt ggctgcacca tggaaacctt gctgaagtgg ctgcgaaacc ggatccagcg
1101 ctgtacacga gattctcagc tggctgagtg ccggggccct cctgaagtgc agggcgcccc gctcttctca ctcactgagg agagcttcaa ggcttgcacc
1201 ctgacctgct cctctgtaga ttacctatcc attgogttgt tgggcttctg ggtctccatt gcttctgttg ccaccaactt cctctctggg atcaactgca
1301 actgctgcca ccgctggagc aagaggacag gatctaaagg cgcgccagta tactctagag tcgacacccg gggaaattct cgagcgctcg
1401  tctctagctt ggcgtaatac tggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa
1501  agcctggggg gcctaatact tgagctaaat cacattaatt gcgttgcgct cactgccgcg tttccagtcg ggaaacctgt cgtgccagct gcattaatga
1601  atcggccaac gcgcggggag aggcggtttg cgtattcgcc ttctctcgct actgactcgc tcgctcggtt cgttcggctg cggcgagcgg ccgcgagcgg
1701  tatcagctca ctcaaaaggc gtaatacggg tatccacaga atcaggggat aacgcaggaa agaacaatgt agcaaaaggc cagcaaaagg ccaggaaaccg
1801  taaaaaggcc gcgttgcttg cgtttttcca taggtccgcg cccctgacg atgcatacaa aaatcgacgc tcaagtacga ggtggcgaaa ccgacagga
1901  ctataaagat accaggcgct tcctctgga agctccctgc tgcgtctctc tgttccgacc tgttccgacc gctccagctt gtcgcctttt ctcctctcgg
2001  gaagcgtggc gcttttctca ttgtcacgct gtatgtatct cagttcggtg taggtcgctt gctccaagct gggctgtgtg cagcaacccc ccgttcagcc
2101  cgaccgctgc gccttatccg gtaactatcg tcttgatctc aaccggtaa gacacgact atcgccactg gcagcagcca ctggtaacag gattagcaga
2201  gcgaggtatg taggcggtgc tacagagttc ttgaagtgtt ggctaaacta cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag
2301  ttaccttcgg aaaaagagtt ggtagctctt gatccggcaa acaaacacc cgtggttagc gtggtttttt tgtttgcaag cagcagatta cgcgagaaa
2401  aaaaggatct caagaagatc ctttgatctt ttctacgggg tctgacgctc agtggaaacga aaactcacgt taagggattt tggctatgag attatcaaaa
2501  aggatcttca cctagatcct tttaaattaa aaatgaagtt ttaaatcaat ctaaaagtata tatgagtaaa cttggtctga cagttacca cgtctaatca
2601  gtgagggacc tatctcagcg atctgtctat ttogttcacc catagttgcc tgactccccg tcgtgtagat aactacgata cgggagggct taccatctgg
2701  cccagtgctt gcaatgatac cgcgagacc cgcctcatt aattgttgcg gggagagctag agtaagtagt tcgccagtta atagtttgcg caacgttgtt gccattgcta
2801  gcaactttat ccgcctccat ccagctctatt aattgttgcg gggagagctag agtaagtagt tcgccagtta atagtttgcg caacgttgtt gccattgcta
2901  caggcatcgt ggtgtcagcg tcgtcgcttg gtatggcttc attcagctcc ggttcccaac gatcaaggcg agttacatga tccccatgt tgtgcaaaaa
3001  agcggtttagc tccttcggtc ctccagatcg tgtcagaagt aagtggcccg cagtgttctc actcatggtt atggcagcac tgcataattc tcttactgtc
3101  atgcoactcg taagatgctt tttctgtgact ggtgagtact caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtaaa
3201  tacgggataa taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaataacgtt cttcggggcg aaaactctca aggatcttac cgctgttgag
3301  atccagttcg atgtaaccca ctcgtgcacc caactgatct tcagcatctt ttactttcac cagcgtttct gggtagcaaa aaacagggaag gcaaaatgcc
3401  gcaaaaaagg gaataaggcg gacacggaaa tgttgaatac tcatactctt cctttttcaa tattattgaa gcatttatca gggttattgt ctcagtagcg
3501  gatacatatt tgaatgtatt tagaaaaata aacaaatagg ggttcgcgcg acatttcccc gaaaagtgc acctgacgtc taagaaacca ttattatcat
3601  gacattaacc tataaaaaata ggcgtatcac gaggcccttt cgtc

```

> RDC3221 Translated Insert Sequence

```

1  mgdwaqlpw pgpphaml islllaaglm hsdagtscpv lctcrnqvvd cssqrflsvp pdlpmdtrnl slahnritav ppgyltcyme lqvldlhns
101  lmelpgrlfl hakrlahldl synnfshvpa dmfgeahglv hidlshnpwl rrvhpqafgg lmqlrdldls ygglafslsle aleglpglvt lqiggnpwvc
201  gctmepllkw lnnriqrcta dsqlaecrgp pevegaplfs lteesfkach ltltdldylf iafvgfvvsi asvatnfllg itancchrs kaseeeeei

```