

Specifications:

Gene:	<i>h</i> KERA
Accession:	NP_008966
Insert size:	1072bp
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.

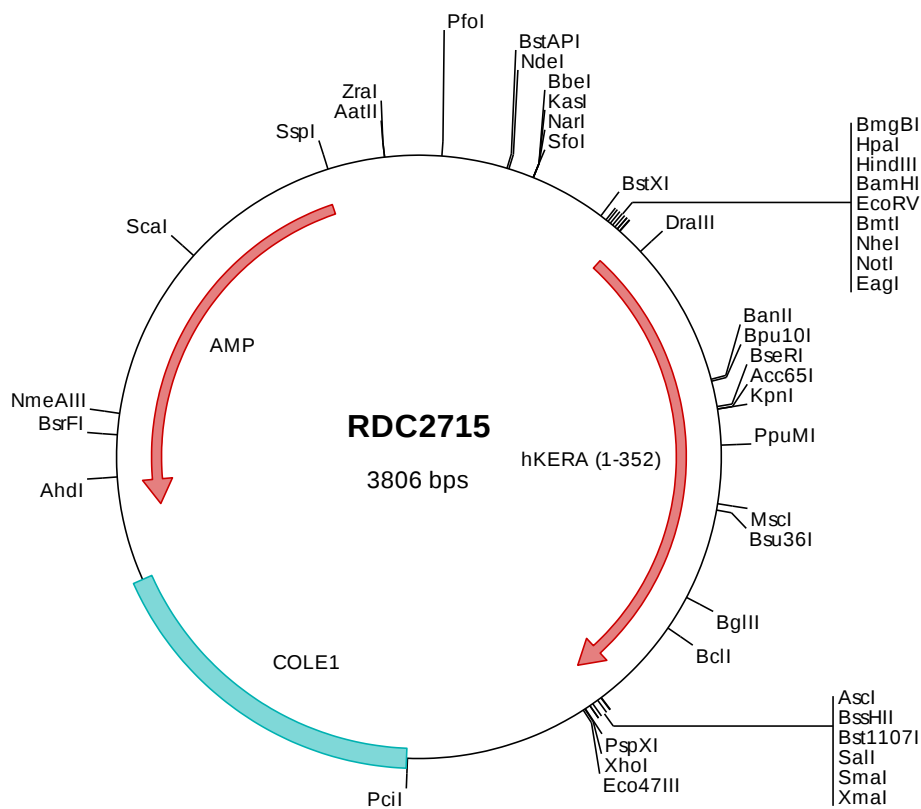
***h*Keratocan cDNA Plasmid**

KERA keratocan [*Homo sapiens* (human)]

Also known as: KTN; CNA2; SLRR2B

Summary:

KERA is a keratan sulfate proteoglycan that is involved in corneal transparency. Defects in KERA are a cause of autosomal recessive cornea plana 2 (CNA2).



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2715 Plasmid DNA Sequence

```

1  tcgcgcgttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccg
101  tcagggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaagg  ggatgtgctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcacc  atggcaggca  caatctgttt  catcatgtgg  gtgttattca  taacagacac
501  tgtgtggctc  agaagtgtaa  ggcaaggcta  tgaagtacat  gattcagatg  attggaactat  tcatgacttc  gagtgcacca  tggaaatgtt  ctgcccaccc
601  agtttttcta  ctgctttata  ttgtgaaaat  agaggttcca  aagaaattcc  tgcatttctc  tcaagaattt  ggtatcttta  tcttcaaaac  aacctgatag
701  aaaccattcc  tgaaaagcca  ttgagaatg  ccaccagct  aagatggata  aatctaaaca  agaacaaaat  aaccaactac  ggaattgaaa  aaggagccct
801  aagccagctg  aagaagtgtc  tcttcttatt  tctggaagat  aatgagctag  aggaggtacc  ttctccattg  ccaagaagtt  tagaacaatt  acaattagct
901  agaaaataag  tgtccagaat  tctcaaggg  accttagca  atctggagaa  cctgaccttc  ctgacctac  agaacaacaa  attagtggac  aatgccttcc
1001  aaagagacac  ttttaaggga  tcaagaatc  tcatgcagct  aaacatggcc  aagaatgccc  tgaggaatat  gcctccaaga  ttaccagcca  atacaatgca
1101  gttgttttta  gacaacaatt  ccattgaagg  aataccagaa  aattatttta  atgtgattcc  taaagtggcc  tttttgagac  taaatcacia  caaactgtca
1201  gatgagggtc  tcccatcaag  aggatttgat  gtatcatcaa  ttctagatct  tcaactgtcg  cacaatcaac  tcacaaaggt  tcccgaatc  agtgcctc
1301  tgcacctctg  tcacctgtat  catacaaaa  ttaaaagtgt  gtaatatgtc  gtaatatgtc  ccagcccatc  catgctgcct  gcagaacgag  attccttcag
1401  ttatggacct  catcttcgct  acctccgtct  ggtgggaaat  gaaatcaaac  caccaattcc  aatggcttta  atgacctgtc  tcagacttct  gcaggctgtc
1501  attattttaa  ggccggccag  tatactctag  agtcgacacc  cggggaattc  ctgcagcgct  cgtctctagc  ttggcgtaat  catggtcata  gctgtttcct
1601  gtgtgaaatt  gttatccgct  cacaattcca  cacaacatac  gagccggaag  cataaagtgt  aaagcctggg  gtgcctaatt  agtgagctaa  ctacatttaa
1701  ttgcgtttcg  ctcaactgcc  gctttccagt  cgggaaacct  gtctgtccag  ctgcattaat  gaatcggcca  acgccggggg  agaggcgggt  tgcgtattgg
1801  gcgctcttcc  gcttctcgc  tcactgactc  gctgcgctcg  tgcgttcggc  tgccgttcgg  ggtatcagct  cactcaaaag  cggtaaatag  gttatccaca
1901  gaatacaggg  ataacgcagg  aaagaacatg  tgagcaaaa  gccagcaaaa  gccaggaac  cgtaaaaagg  ccgctgttgc  ggcgttttcc  catagctccc
2001  gccccctga  cgagcatcac  aaaaatcgac  gctcaagtca  gaggtggcga  aacccgacag  gactataaag  ataccaggcg  tttcccctg  gaagctccct
2101  cgtgcgctct  ctgtttccga  cccgtccgct  taaccgatac  ctgtccgctc  ttctcccttc  gggaagcgtg  gcgctttctc  aatgctcag  ctgtaggtat
2201  ctcaagttcg  tgtaggtctg  tcgctccaa  ctgggctgtg  tgcaacgaac  ccccgctcag  ccgacctatc  gcgcttctc  cgttaactat  cgtcttgagt
2301  ccaacccggt  aagacacgac  ttatcgccac  tggcagcagc  cactggtaac  aggattagca  gagcgaggta  tgtaggcggt  gctacagagt  tcttgaagtg
2401  gtggcctaac  tacggctaag  ctagaaggac  agtattttgt  atctgcgctc  tgctgaagcc  agttaccttc  ggaaaaagag  ttggtagctc  ttgtccggc
2501  aaacaaacca  ccgctggtag  cgggtgtttt  tttgtttgca  agcagcagat  tacgcgcaga  aaaaaaggat  ctcaagaaga  tcctttgatc  ttttctacgg
2601  ggtctgacgc  tcagtggaac  gaaaaactac  gttaaaggat  tttgtgtcat  agattatcaa  aaaggatctt  cacctagatc  cttttaaatt  aaaaatgaag
2701  ttttaaatca  atctaaaagta  tatatagta  aactgtgtct  gacagttacc  aatgcttaat  cagtgaaggca  cctatctcag  cgtctgtct  attcgttca
2801  tccatagttg  cctgactccc  cgtcgtgtag  ataactacga  tacgggaggg  cttaccatct  ggccccagtg  ctgcaatgat  accgcgagac  ccacgctcac
2901  cggctccaga  tttatcagca  ataaaccagc  cagccggaag  ggccgagcgc  agaagtggtc  ctgcaacttt  atccgcctcc  atccagctca  ttaattgttg
3001  ccgggaagct  agagtaagta  gttcgccagt  taatagtttg  taatagtttg  ttgcccattg  tacaggcctc  gtggtgtcac  gtcgctgct  tggtagggct
3101  tcattcagct  ccggttccca  acgatcaagg  cgagttacat  gatcccccat  gttgtgcaaa  aaagcgggta  gctccttcgg  tctccgcatc  gttgtcagaa
3201  gtaagttggc  cgcagtgtta  tcaactcatg  ttatggcagc  actgcataat  tctcttactg  tcatgcccac  cgtaagatgc  ttttctgtga  ctgggtgagta
3301  ctcaaccaag  tcattctgag  aatagtgtat  gcggcgaccg  agttgctctt  gcccgcgctc  aatacgggat  aataccgcgc  cacatagcag  aactttaaaa
3401  gtgctcatca  ttggaaaacg  ttcttcgggg  cgaaaaactc  caaggatctt  accgctgttg  agatccagtt  cgatgtaacc  cactcgtgca  cccaactgat
3501  cttcagcatc  ttttactttc  accagcgttt  ctgggtgagc  aaaaacagga  aggcaaaatg  ccgcaaaaaa  gggaataaag  gcgacacgga  aatgttgaat
3601  actcatactc  ttcttttttc  aatattattg  aagcatttat  cagggttatt  gtctcatgag  cggatacata  tttgaatgta  ttttagaaaa  taaacaaata
3701  ggggttccgc  gcacatttcc  ccgaaaagtg  ccacctgacg  tctaagaaac  cattattatc  atgacattaa  cctataaaaa  taggcgtatc  acgaggccct
3801  ttcgtc

```

> RDC2715 Translated Insert Sequence

```

1  magtiofimw  vlfidtdvws  rsrvqvyevh  dsddwtihdf  ecpmefccpp  sfptalycen  rglkeipaip  sriwylylqn  nlietipekp  fenatqlrwi
101  nlnknkitny  giekgalssl  klllflfled  neleevpspl  prsleqlqla  rnkvsripqg  tfnlnlntl  ldlqnnklvd  nafqrdrfkg  lknlmqlnma
201  knalrnmppr  lpantmqflf  dnnsiegipe  nyfnvipkva  flrlnhnkl  deglpsrgfd  vssildlqls  hnqltkvpri  sahlqhlhld  hnkiksvnvs
301  vicpspsmlp  aerdsfsygp  hlrylrldgn  eikppipmal  mtcfrllqav  ii

```