

Specifications:

Gene:	hCLCA1
Accession:	NP_001276
Insert size:	2757bp
Concentration:	10µg at 0.2µg/µL

hCLCA1 cDNA Plasmid

**CLCA1 chloride channel
accessory 1 [*Homo sapiens*
(human)]**

Also known as: CACC; GOB5;
CACC1; CLCRG1; CaCC-1; hCLCA1;
hCaCC-1

Summary:

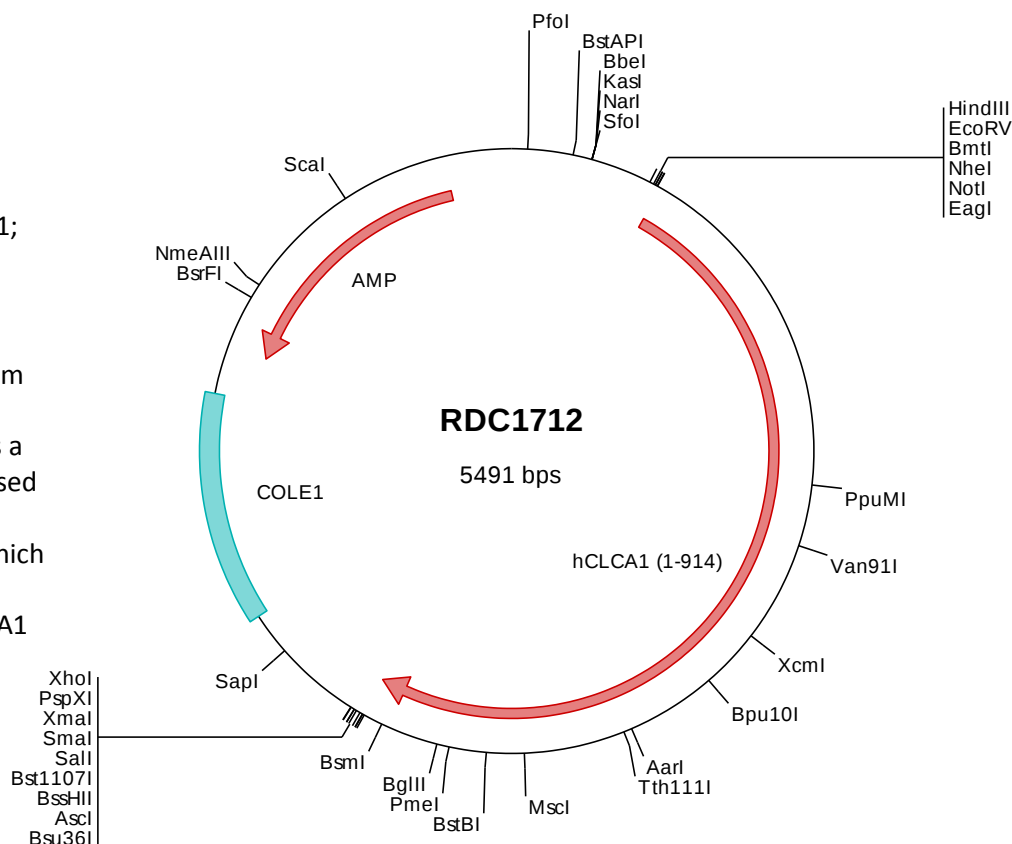
CLCA1 is a member of the calcium sensitive chloride conductance protein family. It is expressed as a precursor protein that is processed into two cell-surface-associated subunits, although the site at which the precursor is cleaved has not been precisely determined. CLCA1 may be involved in mediating calcium-activated chloride conductance in the intestine.

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

> RDC1712 Plasmid DNA Sequence

```

1  tcgcgcgcttt  cggatgatgac  ggtgaaaaacc  tctgacacat  gcagctcccg  gagacgggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccg
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tctgggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtg  accatagcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacggccagct  ggcgaaaagg  ggatgtgctg  caaggcgatt  aagttgggta  agcccgagg  tttcccgatc  acgacgttgt  aaaacgacgg  ccagtgaaat
401  ggagacgtgt  taacaagctt  ggtaccgata  tcgctagcgc  ggccggccac  atggggccat  ttaagagtto  tgtgttcatc  ttgattotto  acctotaga
501  agggggccctg  agtaattcac  tcattcagct  gaacaacaat  ggctatgaag  gcattgtcgt  tgcaatcgac  cccaatgtgc  cagaagatga  aacactcoat
601  caacaataaa  aggacatggt  gaccocaggca  tctctgtatc  tgtttgaagc  tacaggaaag  cgattttatt  tcaaaaatgt  tgccattttg  attcctgaaa
701  catggaagac  aaaggcttgc  tatgtgagac  caaaacttga  gacctacaaa  aatgctgatg  ttctggttgc  tgagtctact  cctccaggta  atgatgaacc
801  ctacactgag  cagatgggca  actgtggaga  gaagggtgaa  aggtaccacc  tcaactctga  ttctattgca  ggaaaaaagt  tagctgaata  tggaccacaa
901  ggtaggcat  ttgtccatga  gtgggtcctat  ctacgatggg  gagtatttga  aaagaagtgt  aagcagggca  aatgatgaga  aattctactt  atccaatgga
1001  cagtaagcat  ttacgagggt  attactggta  caaatccgc  caaatccgc  caagcggaga  aggtctctat  agcacatggg  aagtatccg  tgattctag
1101  actctatgaa  aaaggatgtg  agtttgttct  ccaatccgc  caatccgc  atcaaaaatg  atactctcga  agctgttaca  caaatgttg  attctatagt
1201  acagaaacaa  accacaacaa  agaagctcca  aaacaagcaa  atcaaaaatg  caactctcga  agctgttaca  aagaaattgt  gtgtttatgc  ttgacaaata
1301  aaacacactcc  tatgacaaca  aggtccgcaa  atccacactc  caagcaggc  cagcttttcc  tgcgtgcagc  agttgagctg  gggctcctgg  ttgggatggt
1401  ggccactggt  aaccgcctca  atgcactgaa  tcaagcaggc  gtggcagtg  cagggacaca  ctgcgcaaaa  gattacctgc  agcagcttca  ggagggacgt
1501  agtgcgtccc  atgtacaaa  tgaactcata  ctgtgattag  taactcattt  cctgctgctg  tggtctgctg  gatctgaaat  accgtgggga  aagacaacac
1601  catggaagac  cgggtctgca  tcggcattta  tctgtattag  atcactccac  cagctgtgac  gggtccctct  ggcagctcaag  aactagagga  gctgtccaaa
1701  tataagtggt  tgccttaaac  aggtcaaaaa  aagtggtgac  gatcaagttc  taacactcca  ccaatccctc  ctctgggac  ccaatccctc  aggtgtctct
1801  atgacaggag  gtttacagac  atgatcttca  gatcaagttc  taacactcca  ccaatccctc  ctctgggac  ccaatccctc  aggtgtctct  aggtgtctct
1901  agcgtccat  ccagcttgag  atgaagggt  taactcattt  cctgctgctg  tggtctgctg  gatctgaaat  accgtgggga  aagacaacac  aagacaacac
2001  gtttcttacc  acctggacaa  tgcagcctcc  ccaatccctc  ctctgggac  ccaatccctc  aggtgtctct  aggtgtctct  aggtgtctct  aggtgtctct
2101  gctacctcc  aatcccgca  cctggttaag  gttggcactt  ggaataacag  caacaaagac  atgcaagcag  agctcacaac  agctcacaac  agctcacaac
2201  ccaatgctac  cctccctcca  attacagtg  ctctccaaac  caacaaagac  atgcaagcag  agctcacaac  agctcacaac  agctcacaac  agctcacaac
2301  agcctcccca  attctcagg  ccaatgctac  agcctcccca  attctcagg  ccaatgctac  agcctcccca  attctcagg  ccaatgctac  agcctcccca
2401  cctactaagg  atgacgtgtg  ctactcaagg  taattccaaa  taattccaaa  taattccaaa  taattccaaa  taattccaaa  taattccaaa  taattccaaa
2501  ccagacggag  agtgataacc  cagcagagtg  gagcactgta  catacctggc  acatccctgc  ctgacttaat  ctgacttaat  ctgacttaat  ctgacttaat
2601  taaggatgat  gttcaacaca  agcaagtggt  ttccagcaga  acatccctgc  ctgacttaat  ctgacttaat  ctgacttaat  ctgacttaat  ctgacttaat
2701  ttccacactg  gccaaatcac  cgaactgaag  cgggaaatcc  caagatattc  tgatctcaga  gacaagtcca  atgaatctct  tcaagtgaat  tcaagtgaat
2801  cagctccaaa  gtatatcatt  cgaataagta  caagatattc  tgatctcaga  gacaagtcca  atgaatctct  tcaagtgaat  tcaagtgaat  tcaagtgaat
2901  ggaagccaac  tctgaggaag  tctttttgtt  taacccagaa  aacatcattt  ttgaaaaatg  cacagatctt  ttcatctgta  ttcatctgta  ttcatctgta
3001  gctgtgaaat  cagaatattc  cagatttgca  cgagtattct  tctttattcc  cccagagaga  cccagagaga  cccagagaga  cccagagaga  cccagagaga
3101  gtccataat  tcataatcac  agcaccattc  ctggcattca  cattttaaaa  attatgtgga  agtggaatag  agaactgcag  ctgtcaatag  cctaaggcgc
3201  gccagtatat  tctagagtcg  acaccgggg  aattctcga  gcgctcgtct  ctgacttggt  gtaatcatgg  tcatagctgt  ttctgtgtgt  aaattgttat
3301  ccgctccaaa  ttccacacaa  catacgagcc  ggaagcataa  agtgtaaaag  ctgggtgctc  taatgagtga  gctaactcac  attaatgtcg  ttgcgctcac
3401  tgcccgcttt  ccagtcggga  aaactgtcgt  gccagctgca  ttaatgaatc  ggccaacgag  cgggagagag  cgggtttcgt  attgggagct  cttccgcttc
3501  tcgctcact  gactcgtgct  gctcgtgctg  tcggtcgtcg  cgagcgtgat  aaaggccgag  caagtcactc  aaaggccgag  caagtcactc  aaaggccgag
3601  ccaggaaaag  acatgtgagc  aaaaaggcca  ggaacccgtg  aaaggccgag  caagtcactc  aaaggccgag  caagtcactc  aaaggccgag  caagtcactc
3701  atcacaaaaa  tcgacgctca  agtcagaggt  ggccgaaccc  ggccgaaccc  ggccgaaccc  ggccgaaccc  ggccgaaccc  ggccgaaccc  ggccgaaccc
3801  tccgaccctg  ccgcttaccg  gatacctgtc  cgctctttcc  ccttcgggaa  gcgtggcgct  ttctcaatgc  tcacgctgta  ggtatctcag  ttccggtgat
3901  gtgcgttcgt  ccaagctggg  ctgtgtgcac  gaacccccgc  ttaagcccca  ccgctgcgcc  ttatccgcta  actatcgtct  ttatccgcta  actatcgtct
4001  acgactttac  gccactggca  gcagccactg  gtaacaggat  tagcagagcg  aggtatgtag  gcggtgtctc  agagttcttg  aagttgtggc  aagttgtggc
4101  ctacactaga  aggacagtat  ttggtattct  cgctctgctg  aagccagtta  ccttcggaaa  aagagttggt  agctcttgat  acgctctgat  ccggcaaaac
4201  ggtagcgggt  gtttttttgt  ttgcaagcag  cagattacgc  aggatctcaa  aggatctcaa  aggatctcaa  aggatctcaa  aggatctcaa  aggatctcaa
4301  ggaacgaaaa  ctacggttaa  gggatttttg  tcatgatgat  atcaaaaagg  atcttcacct  agatcctttt  aaattaaaaa  tgaagtttta  aatcaatcta
4401  aagtatatat  gattaaactt  ggtctgacag  ttaccaatgc  ttaatcagtg  aggcacattt  ctccagcgat  ctccagcgat  ctccagcgat  ctccagcgat
4501  cctcccgctg  ttagataaac  tacgataacg  gagggcttac  catctggccc  cagtgtgca  atgataccgc  gagaccacg  ctacccgctc  ctacccgctc
4601  cagcaataaa  ccagccagcc  ggaaggccg  agcgcagaag  tggctctgca  actttatccg  cctccatcca  gtctattaat  gtctattaat  gtctattaat
4701  aagtagttcg  ccagtttaata  gtttgcgcaa  cggttgttgc  atggtctggt  gcatcgtggt  gtcacgctcg  tcggtttgta  tcggtttgta  tcggtttgta
4801  tcccaacgat  caagcgagtg  tacatgatcc  cccatgttgt  gcaaaaaagc  ggttagctcc  ttccggtcct  cgtatcgttg  cgtatcgttg  cgtatcgttg
4901  tgttatcact  catggttatg  gcagcactgc  ataattctct  tactgtcatg  ccacccgtaa  gatgcttttc  tgtgactggt  tgtgactggt  tgtgactggt
5001  ctgagaatag  tgtatgcggc  gacccagttg  ctcttgcggc  gcgtcaatgc  ggttgcagtg  gggataatac  cgcgccacat  cgcgccacat  cgcgccacat
5101  aaacgtttct  cggggcgaaa  actctcaagg  atcttaccgc  tggtagagac  cagtttcgatg  cagtttcgatg  taacccaact  taacccaact  taacccaact
5201  ctttcaccag  cgtttctggg  tgagcaaaaa  cagggaaggca  aaatgccgca  aaatgccgca  aaatgccgca  aaatgccgca  aaatgccgca  aaatgccgca
5301  ttttcaatat  tattgaagca  ttatcaggg  ttatgtgtct  atgagcggat  acatatattg  atatatattg  atatatattg  atatatattg  atatatattg
5401  tttcccgcaa  aagtgccacc  tgacgtctaa  gaaaccatta  ttatcatgac  attaacctat  aaaaataggc  gtaacacgag  gccctttcgt  c

```

> RDC1712 Translated Insert Sequence

```

1  mgpfkssvfi  lilhllegal  snslqlnnn  gyegivvaid  pnvpedetli  qqikdmvtqa  slylfeatgk  rfyfknvail  ipetwktkad  yvrpkletyk
101  nadvlvaest  ppgndepyte  qmgnogekge  rihltpdfia  gkklaeypgp  grafvhwah  lrwgvfdeyn  ndekfylsng  riqavrcsag  itgtnvkkc
201  qggscytkr  tfnkvtglye  kgcefvqlsr  qtekasimfa  qhvdslvefc  teqnhnkeap  nkqnqkcnlr  stwevirdse  dfkktptmtt  qppnptfsl
301  qiggrivcl  ldksgsmatg  nrlnrlnqag  qlfllgtvel  gswgmvtfd  saahvqneli  qinsgsdrdt  lakrlpaaas  ggtsticsqlr  saftvirkky
401  ptdgseivl  tdgedntisg  cfnevkgsa  iihltalgps  aageleelsk  mtglqltyas  dqvqnnlglid  afgalssng  avsqrsigle  skgltlqnsq
501  wmgntvlds  tvgkdtlfl  twtmqppqil  ldpsgqkqg  gfvdnkntkm  aylqipgiak  vgtwkyslqa  ssqtltlvt  srasnatlpp  itvtsktnkd
601  tsfkfplv  yanirgasp  ilrasvtali  esvngktvtl  elldngagad  atkddgvysr  yfttydtngr  ysvkvralgg  vnaarrvrip  qqsgalyipg
701  wiendeiqwn  pprpeinkdd  vqhkvcfsr  tssggsfvas  dvpnapipdl  fppqgqitdlk  aeihggslin  ltwtapgddy  dhgtahkyii  ristisldlr
801  dkfneslqvn  ttalipkean  seevflfke  nitfengtdl  fiaiqavdkv  dlkseisnia  rvsllfippqt  ppetpspdet  sapcpnihin  stipgihilc
901  imwkwigeli  lsia

```