

**Specifications:**

Gene:	hCEACAM5
Accession:	NP_004354
Insert size:	2122bp
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.

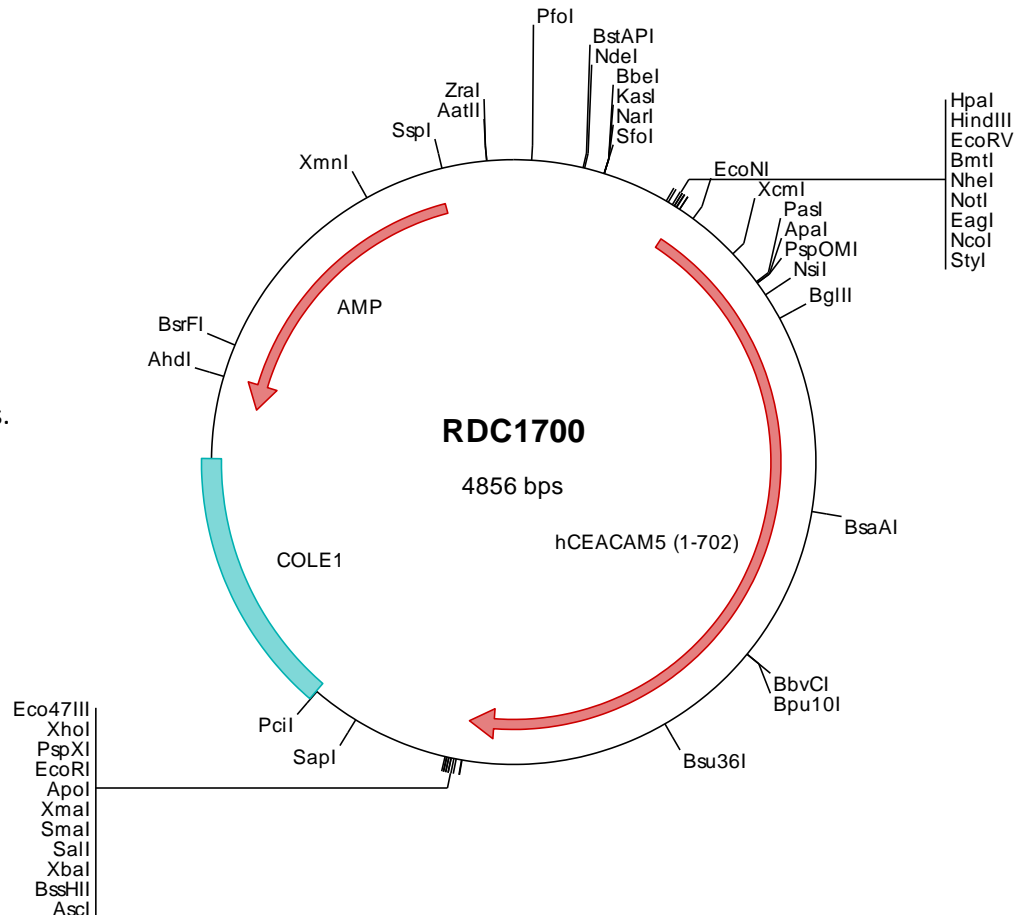
**hCEACAM-5/CD66e  
cDNA Plasmid**

**CEACAM5** carcinoembryonic antigen-related cell adhesion molecule 5 [ *Homo sapiens* (human) ]

Also known as: CEA; CD66e

**Summary:**

CEACAM5 belongs to the large family of CEACAM and pregnancy specific glycoproteins. CEACAM5 functions as a calcium-independent adhesion molecule through hemophilic and heterophilic interactions with CEACAM1. CEACAM5 is restricted to the apical face of intestinal epithelial cells in the adult but is more diffuse during embryonic development. CEACAM5 is upregulated in a wide variety of human tumors and can promote tumor cell migration, invasion, adhesion, and metastasis. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

### > RDC1700 Plasmid DNA Sequence

```

1   tcgctgctgtt  cgggtgatgac  ggtgaaaacc  totgacacat  gcagctcccc  gagacggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccc
101  tcaggggcggc  tcagcgggtg  ttggcgggtg  tcggggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatategc  gtgtgaaata
201  ccgcacagat  gcgtaaggag  aaaataccgc  atcaggcgcc  attgccatt  caggctcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcctat
301  tacgccagct  ggcgaaaagg  ggatgtgctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccggcaac  atggagtctc  cctcgccccc  tcccacaga  tggtgcatcc  cctggcagag
501  gctcctgtct  acagcctcac  ttctaactct  ctggaaccog  cccaccactg  ccaagctcac  tattgaatcc  acgccgttca  atgtcgcaga  ggggaaggag
601  gtgcttctac  ttgtocacaa  ttgccccag  catctttttg  gctacagctg  gtacaaaggt  gaagagtgg  atggcaaccg  tcaaatata  ggatagttaa
701  taggaactca  acaagctacc  ccagggcccc  catacagtg  togagagata  atatacccca  atgcatccct  gctgatccag  aacatcatcc  agaatgacac
801  aggatctctac  accctacaag  tcataaagtc  agatcttgg  aatgaagaag  caactggcca  gtccggggt  taccgggagc  tgcccaagcc  ctccatctcc
901  agcaacaact  ccaaacccgt  ggaggacaag  gatgctgtgg  ccttcacctg  tgaacctgag  actcaggagc  caacctacct  gtggtgggta  aacaatcaga
1001  gctccccagc  cagtcocagg  ctgcagctgt  ccaatggcaa  caggaccctc  actctattca  atgtcacaag  aaatgacaca  gcaagctaca  aatgtgaaac
1101  ccagaaccaa  gtgagtgcca  ggcgagtg  ttoagtctc  ctgaatgtcc  tctatggccc  ggatgcccc  accatttccc  ctctaaacac  atcttacaga
1201  tcaggggaaa  atctgaacct  ctctgccc  gcagcctcta  acccactgca  acagtaact  acagtaact  tggtttctca  atgggacttt  ccagcaatcc  acccaagagc
1301  tctttatccc  caatcaact  gtggaacta  tctggatccta  taactggcca  cagtaact  cagtaact  cagacaactgg  cctcaatagg  accgacactc  cagactcac
1401  agtctatgca  gagccaccca  aaccttct  caccagcaac  aactccaacc  ccgtggagga  tgaggatgct  gtagccttaa  cctgtgaacc  tgagattcag
1501  aacacaacct  acctgtgggt  ggtaaataat  cagagcctcc  cggtcagctc  caggctgacg  ctgtccaatg  acaacaggac  cctcactcta  ctcagtgtca
1601  caaggaactga  tgtaggacc  tatgagtggt  gaatccagaa  cgaattaaat  gttgaccca  gtagcccaag  cgcgaccagt  catctgtaat  ctctctatg  gccagacga
1701  cccaccatt  tccccctact  acacctata  ccgtccaggg  gtgaacctca  gcctctctg  ccatgacgac  tetaaccac  ctgcacagta  tctctggctg
1801  attgatggga  acatocagca  acacacaaa  gagctcttta  totccaact  caactgaga  aacagcggag  totatactgt  aacagcgaat  aactcagcca
1901  gtggccacag  caggactaca  gtaaacacaa  tcacagtctc  tgcggagctg  ccaagccctc  ccatctccag  caacaactcc  aaacccctgg  aggcagagga
2001  tgctgtggcc  ttcacctctg  aacctgagcc  tcagaacaga  acctacctgt  ggtgggtaaa  tggtcagagc  ctcccagtea  gtcccaggct  gccagctgctc
2101  aatggcaaca  ggacctcag  tctattcaat  gtoacaagaa  atgaocgag  agcctatgta  tgtggaatcc  agaactcagt  gtagtgcaac  cgcagtgacc
2201  cagtgaccct  ggatgtctc  tatgggccc  acacccccat  ctaactcccc  ccagactctg  cttaacttct  cttacacttcc  gggagcgaac  ctcaactctc  cctgcaactc
2301  ggcctctaac  ccatccccgc  agtattctgt  cgttatcaat  gggataccgc  agcaaccac  acaagttctc  tttatogcca  aaatocagcc  aaataataac
2401  cggactatgg  cctgttttgt  ctctaactgt  gctactggcc  gcaataatct  ctatgtaaac  agcactcaag  totctgcatc  tggaaactct  cctggttctc
2501  agcctggggc  cactgtggcc  atcatgattg  gagtgtggct  tggggttgct  ctgataaaa  ggcgcgccag  tatactctag  agtcgacacc  cggggaattc
2601  ctcgagcgt  cgtctctagc  ttggcgtaat  catggtcata  gctgtttct  gtgtgaaatt  gttatccgct  cacaattcca  cacaacatac  gagccggaag
2701  cataaagtgt  aaagcctggg  gtgcaataat  agtgaactaa  ctacacttaa  ttgcgttgg  ctcaactgcc  gcttccagt  cgggaaactc  gctgtgcaag
2801  ctgcattaat  gaatcggcca  acgcccggg  agagcggtt  tgcgtattgg  gcgctctcc  gcttccctgc  tcaactgactc  gctgcgctgc  gctgttcggc
2901  tgccgagcag  ggtatcagct  cactcaagag  cggtaatac  gttatccaca  gaatcaggg  ataaccgag  aaagaacatg  tgagcaaaa  gccagcaaaa
3001  ggccaggaa  ccgtaaaaag  ccgcttggct  ggcgtttct  ctataggctc  gcccccctga  cgagcatcc  aaaaatcgac  gctcaagtca  gaggtggcga
3101  aaccgacag  gactataaag  ataccaggcg  tttccccctg  gaaagctccc  cgtgcgctct  cctgttccga  cctgcccct  tacccgatac  ctgtccgctc
3201  ttctcccttc  gggaaagcgt  gcgctttctc  aatgctcac  ctgtaggtat  ctcaactgg  tgtaggtctg  tcgctccaag  ctgggctgtg  tgccagcaac
3301  cccggttcag  cccgaccgct  gcgctttatc  cgttaactat  cgtcttgaat  ccaaccgggt  aagacacgac  ttatcgccac  tggcagcagc  cctgtgtaac
3401  aggattagca  gagcggagta  tgtaggcgg  gctacagagt  tcttgaagtg  gtggcctaac  tacggctaca  ctagaaggac  agtatttgg  atctgcgctc
3501  tgctgaagcc  agttaccttc  ggaaaaagag  ttggtagctc  ttgatccggc  aaacaaacca  ccgctggtag  cggtggtttt  tttgtttgca  agcagcagat
3601  tacgcgca  aaaaaagat  ctcaagaaga  tcctttgatc  tttctacgg  ggtctgacgc  tcagtggaa  gaaaactcac  gttaaaggat  tttgtctatg
3701  agattatcaa  aaagatctt  cacctagatc  cttttaaat  aaaaatgaag  ttttaatac  atctaaagta  tatatgagta  aacttggtct  gacagttacc
3801  aatgcttaat  cagtgaagca  cctatctcag  cgtatctgtc  attcgttca  tccatagttg  cctgactccc  cgtcgttag  ataactaca  tacgggaggg
3901  cttaccatct  ggccccagtg  ctgcaatgat  accgcgagac  ccacgctcac  cggctccaga  tttatcagca  ataaaccagc  cagccggaag  gccagcgc
4001  agaagtggtc  ctgcaacttt  atccgctcc  atccagtcta  ttaattgtg  ccgggaagct  agagtaagta  gttcggcag  taatagttg  cgcaacgttg
4101  ttgccattgc  tacaggcatc  gtgggtctac  gctcgtctg  ttggtatgg  tcattcagct  ccggttccca  acgatcaagg  cgagttacat  gatccccat
4201  gttgtgcaaa  aaagcgggta  gctccttcgg  tctccgatac  gttgtcagaa  gtaagtggc  cgcagtgta  tcactcatgg  ttagggcagc  actgcataat
4301  tctcttactg  tcatgccatc  cgtaaagatg  tttctgtga  ctgggtgag  ctaaccaag  tcattctgag  aatagtgat  gccggcagc  agttgctctt
4401  gccggcgtc  aatacgggat  aataccgcgc  cacatagcag  aactttaaaa  gtyctcatca  ttggaaaaac  ttcttcgggg  cgaaaaactc  caaggatctt
4501  accgctgttg  agatccagtt  cgatgtaacc  cactcgtgca  ccaactgat  cctcagcatt  ttttacttct  accagcgttt  ctgggtgagc  aaaaacagga
4601  aggcaaaatg  ccgcaaaaa  ggaataaag  gcgacacgga  aatgttgaat  actcactc  ttccttttct  aatattattg  aagcatttat  cagggttatt
4701  gtctcatgag  cggatacata  tttgaatgta  tttagaaaa  taacaaaata  ggggttccgc  gcacatttcc  ccgaaaaatg  ccactgacg  tctaagaaac
4801  cattattatc  atgacattaa  cctataaaaa  taggcgtatc  acgagccct  tctgct

```

### > RDC1700 Translated Insert Sequence

```

1   mespsapphr  wcpwqrlll  taslltfwnp  pttaktlies  tpfnvaegke  vlllvhnlpq  hlfgysswyk  ervdgnrqii  gyvigtqqat  pgpaysgrei
101  iypnaslliq  niiqndtgyf  tlhviksdlv  neeatqgfrv  ypelpkpsis  snskpvedk  davaftcepe  tqdatylwvw  nnqslpvspr  lqlsngnrtl
201  tlfvnrndt  asykoetqnp  vsarrsdsvi  lnlvlypdap  tispntsy  sgenlnlsch  aasnppaqys  wfvngtfqqs  tqelfipnit  vnnsqsytcq
301  ahnsdtglnr  ttvttitvya  eppkpfitsn  nsnpvededa  valtecepe  ntyllwvwnn  qslpvsprlq  lsndnrtl  lsvtrndvvgp  yeciqnsls
401  vhdspviln  vlygdpdpti  spsytyyrrp  vnlslschaa  snppaqyswl  idgniqqhtq  elfisnitek  nsglytcqan  nsasghsr  vktitvsael
501  pkpsissnns  kpvedkdava  ftcepeaqnt  tylwvwnq  lpvsprlqls  ngnrtl  vtrndarayv  cqi qnsvsan  rsdpvtldvl  ygpdtplisp
601  pdssylsgan  lnlschsasn  pspqyswrin  gipqqhtqvl  fiakitpnnn  gtyacfvsnl  atgrnnsivk  sitvsasgts  pgl  sagatv  imigvlvgva
701  li

```