

**Specifications:**

Gene:	mCeacam5
Accession:	NP_082756
Insert size:	2857bp
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.

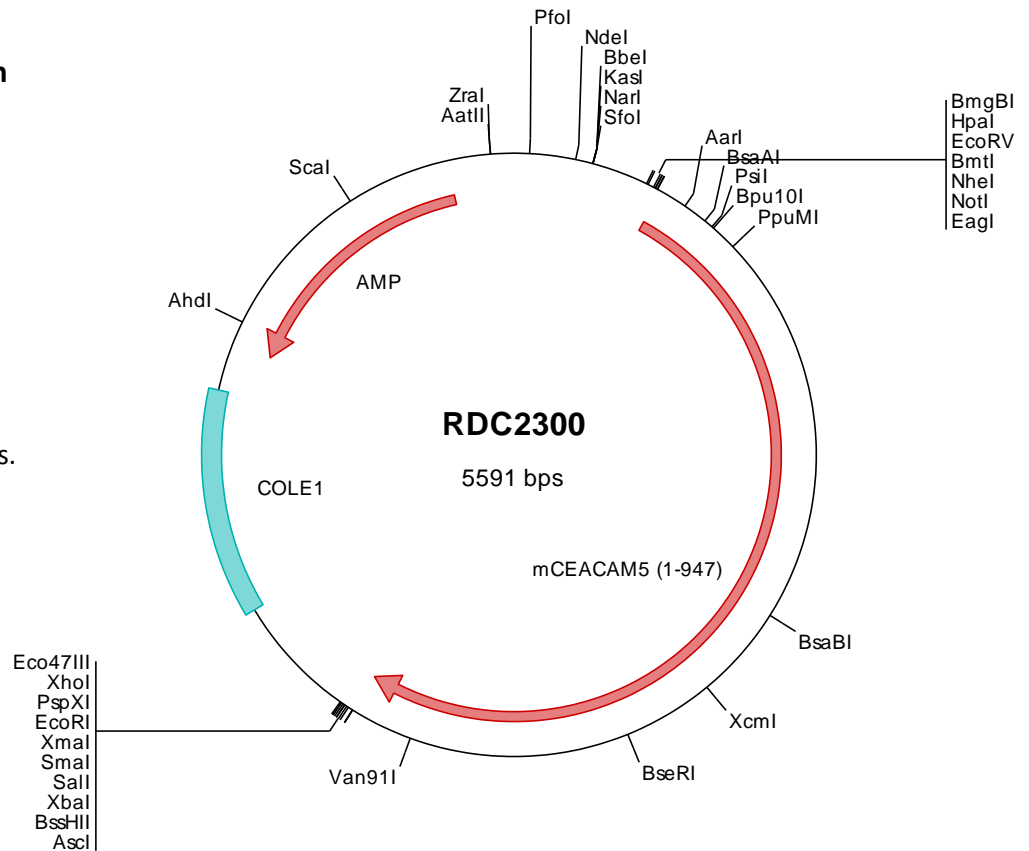
**mCEACAM-5/CD66e  
cDNA Plasmid**

**Ceacam5** carcinoembryonic antigen-related cell adhesion molecule 5 [ *Mus musculus* (house mouse) ]

**Also known as:** Psg30;  
1600029H12Rik

**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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2300 Plasmid DNA Sequence

```

1   tcgcgcgctt  cggatgatgac  ggtgaaaaac  totgacacat  gcagctcccc  gagacgggtca  cagcttgtct  gtaagcggat  gccggggagca  gacaagcccc
101  tcagggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatattg  gtgtgaaata
201  ccgcacagat  gcgtaaggag  aaaatacccc  atcaggcgcc  attcgcatt  caggctcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgcccagt  ggcgaaaagg  ggatgtgctg  caaggcgatt  aagttgggta  agccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcaacc  atggaagcat  cctctgtcct  tccatgcaag  tgggtgacc  acttgcaggg
501  gcttctgtct  acagcctcct  ttttaacctg  ctgtcacctg  cctaccactg  cacaaaatac  cattgaaata  gagccacccc  aagtgat tga  aggagaaaat
601  gttctcaaac  gtgtcaacaa  ttgacagag  aatcttataa  ccttagcctg  gttcagagga  atgaggatta  agagccctca  aattggacia  tatacacagg
701  ccaactaaagt  tactgtgtct  ggtctgtgtc  acagtggtag  agaaaacttt  tacagcaatg  gatccctgca  gatctacaat  gtcaccagg  aggacatagg
801  attctcacag  ctacgaaatc  taaataaaca  tgcagaaatt  gtgtcaataa  catccatata  cctcaactgt  tactatctc  tatggacatg  tgagcaccct
901  totccccatg  ccaagctcac  cattgaaatc  gtgcccagg  gcattcttga  agggggaagt  gttcttctac  tgggtaaaaa  tctcccccaa  aatctctat
1001  cccctttctg  gtacaaaagg  gttattgcag  tgaagaaatt  tgagattgcc  agacacataa  aagccacaaa  tccaagtgtt  ccagggcctg  cacacactgg
1101  tegtgtgaca  gtatttcagca  atggatccct  tctgtcacag  gaagtattgc  agagtgaact  tggattctat  actctacgaa  ctatgagtac  agatctgaaa
1201  gatgaagtga  cagatgtgca  tgtgtacatg  gaacctatc  ttttgactct  ttatcacctc  ttgcaagtca  agatogaat  actctctcag  aatgtgtctg
1301  taggaaaac  tcttctctc  ttatgtcata  atttcctgta  agactttcaa  gcattttct  ggtacaaatc  agcatataga  agctgatac  actaaaattg
1401  agaatacaag  agagccatgt  atgcccacat  tttggggagt  gcatcacagt  caagagagtt  tataacaaac  aacggatcca  tgcataaat  tgatgcaact
1501  gaggatgatg  caggatattt  ctctgtagaa  attttaagag  aagacttaa  gattgaaaaa  gcctacatc  aactccatgt  aatagcttt  gtttcaact
1601  caagggactc  tgcctccact  gcaagctca  gtatagaatc  agtgcaccg  agcattgttg  taaggggaa  aaggggaaag  actgttca  actgttcaaaa
1701  aatcttcaa  tccctttct  ggtacaaagg  gatgattgca  gagaagaaat  ctgagctcat  acaacacata  atagccaaa  gttcaagct  gccagggcct
1801  gcacactgca  ctogagaaac  agtatacaac  aatggatccc  tgctctcca  ggggtccat  caaaaatgta  ctaatttta  tactctca  acttctgata
1901  cagatctgaa  atgtcaagta  gcaactgttc  aactccagct  ggaacctcc  ctttctact  ggtatcaacc  tttgcaagtc  aagatcgaat  cactctctg
2001  gaattgtctg  taggaaaaaa  gtttctttt  tctgttctat  aatttctcag  aagtcttctg  agcatttctc  tgggtataac  cagcgtata  gtcacataca
2101  tcaaaaattg  tagaatacca  cagattccag  gattctgcca  cogtggggcg  tgcaactcag  ggaatagagg  tgaattccac  caaccgata  aatgtgatga
2201  ttgatgtcac  tgagatgat  gcagggtttt  acatctgata  aattttaaga  gaagacttca  aagttgaaaa  agcctatgtt  caactccatg  taaatagctt
2301  tgttccaaa  tcaaaagtct  ctctctccac  tgcaaggctc  agtataagat  cagtgccccc  cagcatgttt  ggaggggaaa  gatgtctctc  actgttctc
2401  aatcttcaa  aaaaacttca  atctctttc  tggtaaaaag  gogtggattg  cgaggagaaa  tctgagctca  ctcaacacat  ttctctca  agttcaagct
2501  tgccagggcc  tgcaacacag  ggtogagaaa  caggtgtcac  caatgtgac  ctctgtctc  agagggctc  gcagaatgat  actggattct  atactctact
2601  aactatgagt  acagatctga  aagatgaaat  agcaactgct  caactccagc  ttgcaactc  ttactgtctg  agccttctca  cctctgacca  actcaaat
2701  gtaccagctg  ctccgaaat  tctgttaggg  aaaagtgttc  ttctctgtt  tctctctctg  ttcagaacaat  tttctgttac  aatccggtg  actccggtg
2801  atcgaacaga  tatttttaaa  attgcagaat  atagcagatc  catggaatct  actactctgg  ggcttgca  cagtgaaaa  gagatgtgt  acactaatg
2901  atccctctg  atccagaagt  tcaactgaga  gatgcaggga  ttgtacatgt  tagaaaat  acataaggac  tacaacttg  agagagaca  tgtgcaagtc
3001  caagttaaa  accctgtttc  atgctctttt  gtgcagatga  gtgcacacc  agtcaagata  cagagctcag  tagtctca  ttctctca  agttcaagct
3101  gtgtctccat  ccgttggctc  ttaataaagc  agagtctgca  gctcacagag  agaatgacac  ttccccatc  aaagtgcaa  ctcagcatg  atcctgtctg
3201  gaggggagat  gctggaaagt  atcaatgtga  ggtctccaac  ccagctcagt  caaagtccag  tctcccagtc  cgtctggctg  tgaagaaga  gtaaaaggcc
3301  gccagtatac  tctagagctg  acacccgggg  aattctctga  ggcctctct  ctagcttggc  gtaaatcag  tcatagctgt  ttctgtgtg  aaattgttat
3401  ccgctcacia  ttccacacia  catacagacc  ggaagcataa  agtgtaaagc  ctgggtgccc  taatgagtga  gctaactcac  attaatgctg  ttgcgctcac
3501  tgcccgttt  ccagtccgga  aacctgtcgt  gccagctgca  ttaatgaact  ggcccaacgg  cggggagagg  cggtttgcgt  attggcgct  cttccgctc
3601  ctgcctcaact  gactogctc  acctgtcgt  tcggctcgg  cgagcctc  caagcggtat  aaaggcggt  atacggttat  ccacagatc  aggggataac
3701  gcaggaaaaga  acatgtgagc  aaaaggccag  caaaaggcca  ggaaccgtaa  aaaggccg  ttgctggcgt  tttccatag  gctccgccc  cctgacgagc
3801  atccaaaaaa  tcgacgctca  agtcagaggt  ggcgaaaccc  cagagactca  taagaatacc  aggcgtttcc  ccctggaagc  tccctctgct  gctctctgt
3901  tccaccctg  ccgctaccg  gatacctgct  cgctcttctc  gactccgtaa  gctgtggcga  gctgtggcgt  ttctcaatg  tcacgctgta  ttctgtgtg
4001  gtcgtctcgt  ccaagctggg  ctgtgtgac  gaacccccg  ttcagcccga  ccgctgcg  ttatccggt  actatcgtct  tgagtccaac  ccggtaaagc
4101  acgacttatc  gccactggca  gcagccactg  gtaacaggat  tagcagagcg  aggtatgtag  gcggtgctac  agagtctctg  aagtgtggc  ctaactacgg
4201  ctacactaga  aggacagtat  ttggtatctg  cgctctgctg  aagccagtta  ccttcgaaa  aagagtgtgt  agctctgtat  acggcaaaa  aaccocctg
4301  ggtagcgggt  gttttttgt  ttgcaagcag  cagattacgc  gcagaaaaa  aggatctcaa  gaagatcctt  tgatctttc  tacgggtct  gacgctcagt
4401  gaaacgaaaa  ctcaactgta  gggattttg  tcaatgagat  atcaaaaagg  atcttcaact  agatcctttt  aaattaaaaa  tgaagtttta  aatcaatcta
4501  aagtatatat  gtcataactt  ggtctgacag  ttaccaatgc  ttaacagtg  aggcacactc  ctccagcag  tctctattc  gttcatctc  agttgctgta
4601  ctcccgtctg  ttagataaac  tacgatacgg  gagggttac  catctggccc  cagtgctgca  atgataaccg  gagaccacg  ctaccggct  ccagatttat
4701  cagcaataaa  ccagccagcc  ggaaggccg  agccgaaagg  ttgctctgca  actttatccg  cctccatcca  gtctattaat  tgttgcggg  aagctagagt
4801  aagtagttcg  ccagtttaata  gtttgcgcaa  cgttgttgc  attgctacag  gcactcgtgt  gtcacgctc  tcgtttggt  gtcctctat  cagctccggt
4901  tcccaacgat  caaggcgagt  tacatgatcc  cccatgtgt  gcaaaaaagc  ggttagctcc  ttcggtcctc  cgatcgtgt  cagaagtaag  ttggcccgag
5001  tgttatcact  catggttatg  gcagcactgc  ataattctct  tactgtcatg  ccactccgta  gatgctttt  tgtgactggt  gagtactcaa  ccaagtcatt
5101  ctgagaatag  tgtatgcggc  gaccaggttg  ctcttgcgg  gggataatac  gggataatac  cgcgcaacat  agcagaactt  taaaagtgt  catcattgga
5201  aaacgttctt  cggggcgaaa  actctcaagg  atctaccgc  ttttgagatc  cagttcgatg  taaccactc  gtgaccocaa  ctgatctca  gcatcttta
5301  ctttccacag  cgtttctgga  tgagcaaaaa  caggaagcca  aatgcccga  aaaaagggaa  taaggggcag  acggaatgt  tgaatactca  tactctctc
5401  ttttcaatat  tattgaagca  ttattgtctc  atagcggctg  acatatttga  acatatttga  atgtatttga  aaaaataaac  aaatagggtt  tccgcgcaca
5501  tttccccgaa  aagtgcacc  tgacgtctaa  gaaccatta  ttatcatgac  attaacctat  aaaaatagc  gtatcacag  gcccttctg  c

```

> RDC2300 Translated Insert Sequence

```

1   meassvlpck  wcthlqglll  tasfltcchl  pttaqitiei  eppqviegen  vlirvnnlte  nlltlawfrg  mrikspqigq  ytpatkvtvl  gpghsgrtel
101  ysnsglqiyn  vtqedifgys  lriinkhaei  vsitsiylvn  ysslwtcehp  sphaklties  vppgiseggs  vlllvknlpq  nllslfwykg  viavkkfeia
201  rhikantnsy  ppahtgret  vfnsgslllq  evmqsdtgfy  tlrmtstdkl  devahvqlym  dtylltcyhp  lvkieslpq  nvavgktvll  lvhnlpedfq
301  affwyksayr  rdykiaeyk  ramdatilgs  aysrefiyn  ngsmliidvt  eddagyfile  ilredlkiek  ayiqhvnfsf  vnskdsast  arlsiesvpp
401  siveggsvll  lvhnlpknlq  slfwykgmia  ekkseliqhi  iatssslppg  ahsgrvtyvn  ngslllqrvn  qndtqfytll  tmdtdlkvey  ahvqlqldts
501  lstwyhplvg  kieslprnva  vgksvflvh  nfpevfrafs  wykpayksh  skiveyhrft  dsatvgaayr  gieviftngs  mvmidvtedd  agfymleilr
601  edfkvekayv  qlhvnsvfvp  skvsvstarl  siesvppsis  ggesvlllvh  nlpknqlslf  wykviaeek  seliqhiat  ssslpppahs  gretvysngs
701  lllqrvmqnd  tgfytlltms  tdlkdeiahv  qlqldstccc  sltsdqllii  vpvprniavg  ksvlllvcnv  pkdvtifwy  ksvyrtdifk  iaeyrsmses
801  tiwglahsgk  emvytnsll  iqnvtedhag  lymlellhkd  yklerleahqv  hvnnpvswpf  vrvttdtrv  qssvvtfcfs  adpgvsirwl  fnkqslqlte
901  rmtlspkscq  lsidpvwred  agkyqcevsn  pvssksslpv  rlaviee

```