

Specifications:

Gene:	<i>cynoC9H10orf54</i>
Accession:	XP_005565644
Insert size:	949bp
Concentration:	10µg at 0.2µg/µL

**cynoVISTA/B7-H5
cDNA Plasmid**

C9H10orf54 chromosome 9 open reading frame, human C10orf54 [*Macaca fascicularis* (crab-eating macaque)]

Also known as: B7H5; GI24; B7-H5; SISP1; PP2135

Summary:

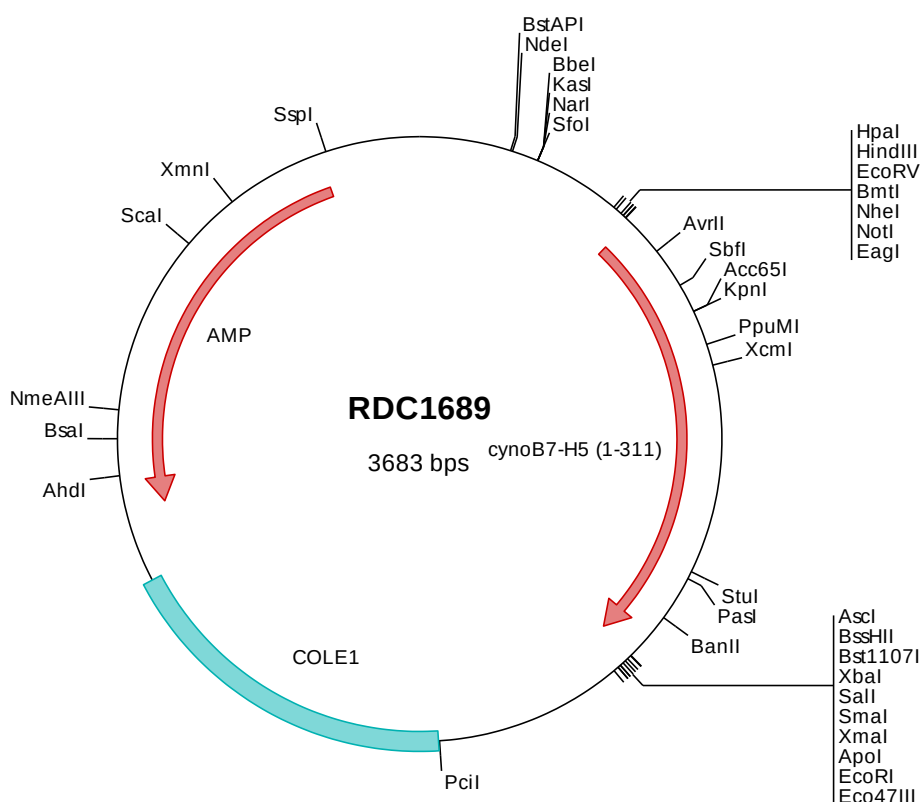
B7-H5 is a member of the Ig superfamily. It is a transmembrane glycoprotein expressed in bone, on embryonic stem cells (ESCs), and on tumor cell surfaces. B7-H5 promotes both MT1 MMP expression and the MT1 MMP mediated activation of MMP 2. B7-H5 undergoes proteolytic cleavage by MT1 MMP, generating a soluble extracellular fragment and a membrane bound fragment. On ESCs, B7-H5 appears to positively interact with BMP 4, potentiating BMP signaling and the transition from an undifferentiated to a differentiated state. Its expression on tumor cells attenuates the anti-tumor immune response and enables more rapid tumor progression.

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.



> RDC1689 Plasmid DNA Sequence

```

1   tcgcgcgttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacggtca  cagcttgctc  gtaagcggat  gccgggagca  gacaagcccc
101  tcagggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctcgcg  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaaagg  ggaatgtctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgccacc  atgggcgtcc  ccacggcacc  ggaggccggc  tgcctggcgt  ggggatccct
501  gctcttcggc  ctcttccttg  ctgcgtccct  aggtccgggt  gcagccttca  aggtccgcc  gctgtattcc  ctgtacgtct  gtcccagggt  gcagaacgtc
601  accctcacct  gcagggtctt  cggccctgtg  gacaaaaggg  atgatgtgac  cttctacaag  acgtgggtac  gcagctcgag  gggcgagggt  cagacctgct
701  cagagcgccg  gccatccgc  aaactcacgt  tccaggacct  tcacctgcac  catggaggcc  accaggctgc  caacaccagc  cagcacctgg  cccagcgcca
801  cgggctggag  tcggcctccg  accaccatgg  caactctctc  atcaccatgc  gcaacctgac  cctgtcggac  agcggcctct  actgctgcct  tgtgtgggag
901  atcaggcacc  accactcgga  gcacagggtc  cagcgtgcca  tggagctgca  ggtgcagaca  ggcaaagatg  caccatccag  ctgcgtggca  taccatcctt
1001 cctcccagga  gagtgaaaac  atgcctcctg  cagccttggc  tacgggtgcc  tgcatcgtag  gaatcctctg  cctccccttc  atcctgtctc  tgggtctaaa
1101 gcaaaggcag  gcggcctcca  accgtcgtgc  ccaggagctg  gtgcggatgg  acagcaaac  tcaagggtat  gaaaaccctg  gctttgaggt  ctcatcactt
1201 gccacgggga  tactggaggg  caaagtcagg  caccccctgt  cctatgtggc  ccagcggcag  ccttctgagt  ctgggaggca  tctgctttcg  gagccggcca
1301 ccccctgtgc  tctccagac  cccggagacg  tcttcttccc  actcctggac  cctgttctct  actctccaaa  ctttgaggtc  atctaaaggg  gcgccagtat
1401 actctagagt  cgacaccggg  ggaattcctc  gagcgtcgt  ctctagcttg  gcgtaatcat  ggtcatagct  gtttcctgtg  tgaattgtt  atccgctcac
1501 aattccacac  aacatacgag  ccggaagcat  aaagtgtaaa  gcctgggggt  cctaattagt  gagctaacct  acattaattg  cggtgcgtc  actgcccgtt
1601 tccagtcgg  gaaacctgtc  gtcccagctg  cattaatgaa  tcggccaacg  cgcggggaga  gtattggcgg  gtattggcgg  ctcttcctgc  tccctcgcta
1701 ctgactcgct  gcgctcgtgc  gttcggctgc  ggccagcggt  atcagctcac  tcaaaggcgg  taatacgggt  atccacagaa  tcaggggata  acgcaggaaa
1801 gaacatgtga  gcaaaaaggg  agcaaaaagg  caggaacctg  aaaaaggcgg  cgttgctggc  gtttttccat  aggcctcgcc  ccctgacga  gcatcacaaa
1901 aatcgacgct  caagtcagag  gtggcgaaac  ccgacaggac  tataaagata  ccaggcgctt  cccctcgtaa  gctcctcgt  gcgctctcct  gttccgacct
2001 tgcgcgttac  cggatacctg  tccgcctttc  tcocctcggg  aagcgtggcg  ctttctcaat  gctcacgctg  taggtatctc  agttcggtgt  aggtcgttgc
2101 ctccaagctg  ggctgtgtgc  acgaaccccc  cgttcagccc  gaccgtgcg  ccttatccgg  taactatcgt  cttagtcca  acccgtaag  acacgactta
2201 tcgccactgg  cagcagccac  tggtaacagg  attagcagag  cgaggtagtg  aggcgggtgt  acagagtctt  tgaagtgggt  gcctaactac  ggctacacta
2301 gaaggacagt  atttggatc  tgcgtctgct  tgaagccagt  taccttcgga  aaaagagtgt  gtagctcttg  atccggcaaa  caaaccaccg  ctggtagcgg
2401 tggttttttt  gtttgcaagg  agcagattac  gcgcagaaaa  aaaggatctc  aagaagatcc  tttgatcttt  tctacggggt  ctgacgtca  gtggaacgaa
2501 aactcacgtt  aagggtttt  ggtcatgaga  ttatcaaaaa  ggatcttcac  ctagatcctt  ttaaatataa  aatgaagttt  taaatcaatc  taaagtatat
2601 atgagtaaac  ttggtctgac  agttaccaat  gcttaatcag  tgaggcacct  atctcagcga  tctgtctatt  tcgttcatcc  atagtgtcct  gactccccgt
2701 cgtgtagata  actacgata  gggagggtct  accatctggc  ccagtgctg  caatgatacc  cagtagatacc  cgcagacca  cgctcaccgg  ctccagattt
2801 aaccagccag  ccggaagggt  cgagcgcaga  agtgggtctg  caactttatc  cgccctccatc  cagctctatta  attgttgccg  ggaagctaga  gtaagtgtt
2901 cgccagttaa  tagtttgcg  aacgttgttg  ccattgctac  aggcacgtg  gtgtcacgct  cgctgtttgg  tatggcttca  ttcagctcgg  gttcccaacg
3001 atcaaggcga  gttacatgat  cccccatgtt  gtgcaaaaaa  gcggtagct  ccttcggctc  tccgatcgtt  gtcagaagta  agttggccgc  agtgttatca
3101 ctcatgggta  tggcagcact  gcataattct  cttactgtca  tgccatccgt  aagatgtctt  tctgtgactg  gtgagtactc  aaccaagtca  tttctgagaat
3201 agtgtatgcg  gcgaccgagt  tgctcttgcc  cggcgctaat  acgggataat  acccgccacc  atagcagaac  tttaaaagt  ctcatcattg  gaaaacgttc
3301 ttcggggcga  aaactctcaa  ggaacttacc  gctgttgaga  tccagttcga  tgtaaccac  tcgtgcacc  aactgatctt  cagcatcttt  tactttcacc
3401 agcgtttctg  ggtgagcaaa  aacaggaagg  caaaatgccg  caaaaaagg  aataaggcgg  acacggaaat  gttgaatact  catactcttc  ctttttcaat
3501 attattgaag  catttatcag  ggttattgtc  tcatgagcgg  atacataatt  gaattgattt  agaaaaataa  acaaataggg  gttccgcgca  catttccccg
3601 aaaagtgcc  cctgacgtct  aagaaacct  tattatcatg  acattaacct  ataaaaatag  gcgtatcacg  aggcctttc  gtc

```

> RDC1689 Translated Insert Sequence

```

1   mgvptapeag cwrwsgllfla fllaaslgpv aafkvatlys lyvcpvgqnv tltrcvfpgv dkghdvtfyk twyrssrgev qtcserripir nltfqdlhlh
101  hgghqaants hdlagrhgle sasdhgnfs itmrltllld sglycclvve irhhhsherv hgamelqvqt gkdpsscva ypsssqesen itaaalatga
201  civgilclpl illlvykqrq aasnrraqel vrmdsntqgi enpgfeassp aggileakvr hplsyvaqrq psesgrhlis epgtplspgp pgdvffpsld
301  pvpdspnfev i

```