

Specifications:

Gene:	mOcstamp
Accession:	NP_083297
Insert size:	1510bp
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.

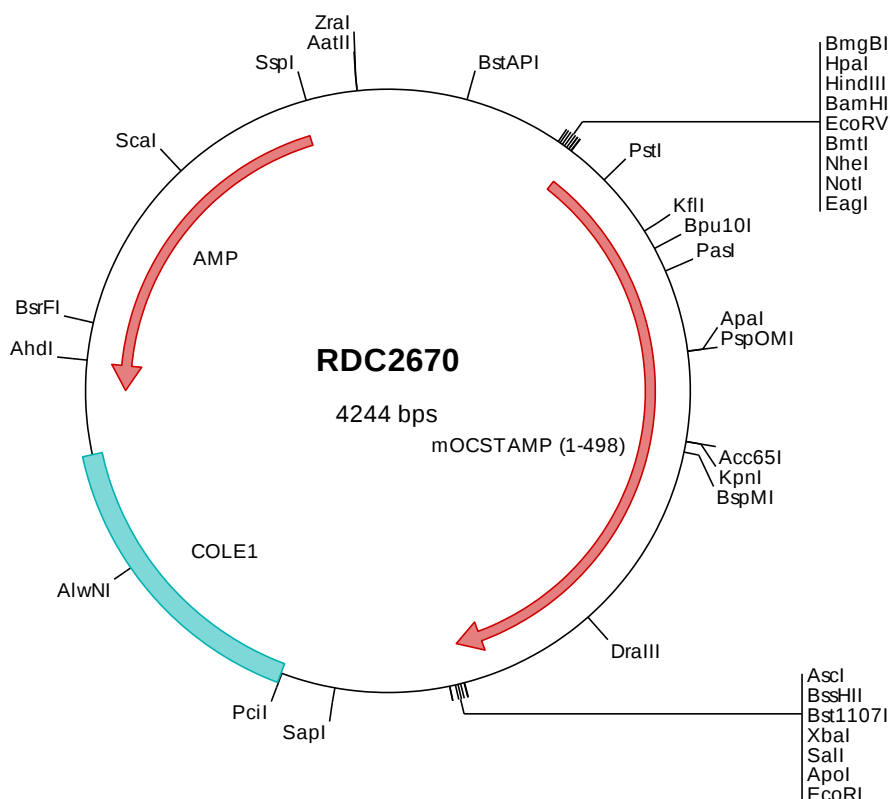
mOC-STAMP cDNA Plasmid

Ocstamp osteoclast stimulatory transmembrane protein [*Mus musculus* (house mouse)]

Also known as: OC-STAMP;
4833422F24Rik

Summary:

OCSTAMP is very strongly up-regulated during osteoclast differentiation. It is a multipass transmembrane protein that is highly conserved in mammals and has little homology to other proteins. OCSTAMP cooperates with DCSTAMP in modulating cell-cell fusion in both osteoclasts and foreign body giant cells (FBGCs). It is involved in osteoclast bone resorption and promotes osteoclast differentiation. OCSTAMP may play a role in multinucleated osteoclast maturation.



> RDC2670 Plasmid DNA Sequence

```

1   tcgcgcgctt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccg
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaaagg  ggatgtgctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaaat
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccggccacc  atgaggacca  tcagggcagc  caccgaaacac  ctctttgggt  tggggtggaa
501  gtctctggcg  ttggggatct  gcaaggcagt  tgttccactg  caggctgcct  ggaagcctt  ctcccagcct  gtcccagcca  gctgtaacga  actactgacc
601  cagcttctcc  tgtgtgttcc  cttggccagt  cttatcgacg  gcttgggcca  tcaactggctg  gtctctttgc  agctttatcc  tttgggaccc  cctgccttgg
701  tgacctctct  ctgtgtgtct  ttctgttctc  taagcctcgg  cctgttgccc  cccatccgct  gcctatttgc  gctcagtggt  ccaaccctgg  gctccaagca
801  gggccgcgcg  ttgctctctg  cctacagtcg  agccaacctg  gctgtcgctg  tggtgccaaa  cgtcttaggc  aatgtgcgtg  cagctgggca  agtgcctgag
901  tgtgttaact  agggctcttt  ggagagtctg  ctttaatacca  cttaccagct  ggcagcagga  gccaggggaa  tggggccagc  cagccgagca  ggcagccgca
1001  gactgacatt  tgaggtcgag  ggcaagggtc  cagccttcgg  ccttcaaatg  ccttcacatg  ctcaggagat  cctggaagac  tctctctggc  tggagtctct
1101  ggctcgagca  gcaactggga  ctacagcggg  ggtcaccggg  ttgttctctg  tgggcctcct  gggagagtcg  gcctgttacc  ttcactgcta  cctcactgac
1201  ctgcgtttcg  acaatatcta  cgcgactcgg  cagctgttcc  ggcagctggc  agctgtgggc  gccacacatc  tgctgacctc  tccgcctcgg  tggctgtctc
1301  aaacagccca  ccctaagttg  tcacgggagg  agctgtctag  cgtctctcta  agctgtgggc  taactggcatt  gctcttagta  gccacagctg  tgacagtggc
1401  ctacagactat  ggggccttcc  tcttggcaca  agcagctgta  gcctgggctc  agaagttaac  cactgtacca  atcaactcca  cagtcaaaat  tgacgctcca
1501  tataaggttc  tggacttcac  cctctctctc  ctaaaccaac  ctcoggtgga  gagcgtgttt  gcctccatgc  agcgtctctt  ccagtgaggg  ctgcgttcca
1601  cgccccaaga  ctgtctctca  aaccaccggc  tgtcacgctc  ccttcaatg  tgctgtgggt  cggggcgccct  gcaactgctg  gccggcgcca  ccttggctgt
1701  acaggcctac  gcctggcgcc  tgcgcacac  catcgacgac  tcttctctcc  cagaccagga  gccagggagg  cttagccact  tgacggcccg  gctccagagg
1801  agacaccaac  agagtgaaca  cctgaacaaa  cagcccgcca  ctttggccac  cggggaatcc  aggaagcctg  gacaggggaa  tcggactctg  gagtcaacgg
1901  gactcaagcg  acatgactcc  cttgggcctc  catatgacct  cgagtaaaag  cgcgcagta  tactctagag  tcgacacccg  gggaaatcct  cgagcgtctg
2001  tctctagctt  ggcgtaata  tggtcatagc  tgtttcctgt  gtgaaattgt  tatccgctca  caattccaca  caacatacga  gccggaagca  taaagtgtaa
2101  agcctggggg  gcctaatag  tagagtaact  cacaattaat  gcgttgcgct  cactgcccgc  ttccagtcg  ggaaacctgt  cgtgccagct  gcattaatga
2201  atcggccaac  gcgcggggag  aggcgggttg  cgtattgggc  gctcttccgc  tctctcgtct  actgactcgc  tgcgctcggg  cgttcggctg  cggcgagcgg
2301  tatcagctca  ctcaaaaggc  gtaatacggg  tatccacaga  atcaggggat  aacgcaggaa  agaactatgt  agcaaaaggc  cagcaaaagg  ccaggaaaccg
2401  taaaaaggcc  gcgttgcgtg  cgtttttcca  taggtcccg  cccctgacg  agcatcacaa  aaatcgacgc  tcaagtcaga  ggtggcgaaa  cccgacagga
2501  ctataaagat  accaggtggt  tcctcctgga  agctccctcg  tgcgctctcc  tgttccgacc  ctgcccgtta  ccggataact  gctccgcttt  cctcctctcg
2601  gaagcgtggc  gctttctcaa  tgctcacgct  gttagtatct  cagttcggtg  taggtcgttc  gctccaagct  gggctgtgtg  caggaacccc  ccgttcagcc
2701  cgaccgctgc  gccttatccg  gtaactatcg  tctttagtcc  aaccgggtaa  gacacgactt  atcgccactg  gcagcagcca  ctggttaacg  gattagcaga
2801  gcgaggtatg  taggcggtgc  tacagagttc  ttgaagtggg  ggccctaacta  cggctacact  agaaggacag  tatttggtat  ctgcgctctg  ctgaagccag
2901  ttacctctcg  aaaaagagtt  ggtagctctt  gatccggcaa  acaaacacc  gctggttagc  gtggtttttt  tgtttgcaag  cagcagatta  cgcgcagaaa
3001  aaaaaggatc  caagaagatc  ctttgatctt  ttctgacggt  tctgacgctc  agtggaacga  aaactcacgt  taagggattt  tggtcatgag  attatcaaaa
3101  aggatcttca  cctagatcct  tttaaattaa  aaatgaagtt  ttaaatcaat  ctaaaagtata  tatgagtaaa  cttggtctga  cagttaccaa  tgcttaatac
3201  gtgaggcacc  tatctcagcg  atctgtctat  ttogttcact  catagttgcc  tgactccccg  tcgtgtagat  aactacgata  cgggaggggt  taccatctgg
3301  cccagtgct  gcaatgatac  cgcgagaccc  acgctcaccc  gctccagatt  tatcagcaat  aaaccagcca  gccggaaggg  ccgagcgcag  aagtgtctct
3401  gcaactttat  ccgcctccat  ccagctctat  aattgttgcc  gggaagctag  agtaagtagt  tcgccagtta  atagtttgcg  caacgttgtt  gccattgcta
3501  caggcatcgt  ggtgtcacgc  tcgtcgtttg  gtatggcttc  attcagctcc  cagtggttat  gatcaaggcg  agttacatga  tcccccatgt  tgtgcaaaaa
3601  agcggtttag  tccttcggtc  ctccgatcgt  tgtcagaagt  aagtggcccg  oagtgttatc  actcatggtt  atggcagcac  tgcaaatc  tcttactgtc
3701  atgccatccg  taagatgctt  ttctgtgact  ggtgagtact  caaccaagtc  attctgagaa  tagtgtatgc  ggcgaccgag  ttgctcttgc  ccggcgctca
3801  tacgggataa  taccgcgcca  catagcagaa  ctttaaaagt  gctcatcatt  ggaanaacgt  ctctggggcg  aaaactctca  aggatcttac  cgtgtgttag
3901  atccagttcg  atgtaaccca  ctcgtgcacc  caactgatct  tcagcatctt  ttactttcac  cagcgtttct  ggggtgagca  aaacaggaag  gcaaaatgcc
4001  gcaaaaaagg  gaataagggc  gacacggaaa  tgttgaatac  tcatactctt  cctttttcaa  tattattgaa  gcatttatca  gggttattgt  ctcatgagcg
4101  gatacatatt  tgaatgtatt  tagaaaaata  aacaaatagg  ggttccgcgc  acatttcccc  gaaaagtgcc  acctgacgtc  taagaaacca  ttattatcat
4201  gacattaacc  tataaaaaata  ggcgtatcac  gaggcccttt  cgtc

```

> RDC2670 Translated Insert Sequence

```

1   mrtiraateh  lfglgwkfwr  lgickavvpl  qaawkafsqp  vpasncllt  qlllcvslas  liaglahhwl  vslqllyplp  palvtslclg  fvflslglvp
101  pircrlfvls  ptlsgskqrr  lllsysaanl  avavvpnvlg  nvraaggvls  cvtegslesl  lnttyqlrqa  arelgpasra  gsrsltfefe  gkgsafrihm
201  htitgeiled  fsgleflara  algtqrvvtg  lfllglilges  awylhryltd  lrfdnnyatr  qlvrqlaqag  athlltspvp  wllqtagpkl  sreellsc11
301  rlgl1alllv  atavtvasyd  gafillaqaav  awaqlptvp  itltvkydas  ykvidfilfv  lnqppvesvf  asmqrsfqwe  lrftphdchl  pqagpprvta
401  alaagalql1  agatlvlqay  awrlrhtiaa  sfpdqearr  lshlqarlqr  rhnqsdhlnk  qpqtmates  rkpqggtrtl  esqgpqahds  lgpppydle

```