

## Specifications:

|                |                  |
|----------------|------------------|
| Gene:          | mDCSTAMP         |
| Accession:     | NP_083698        |
| Insert size:   | 1426bp           |
| 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. |

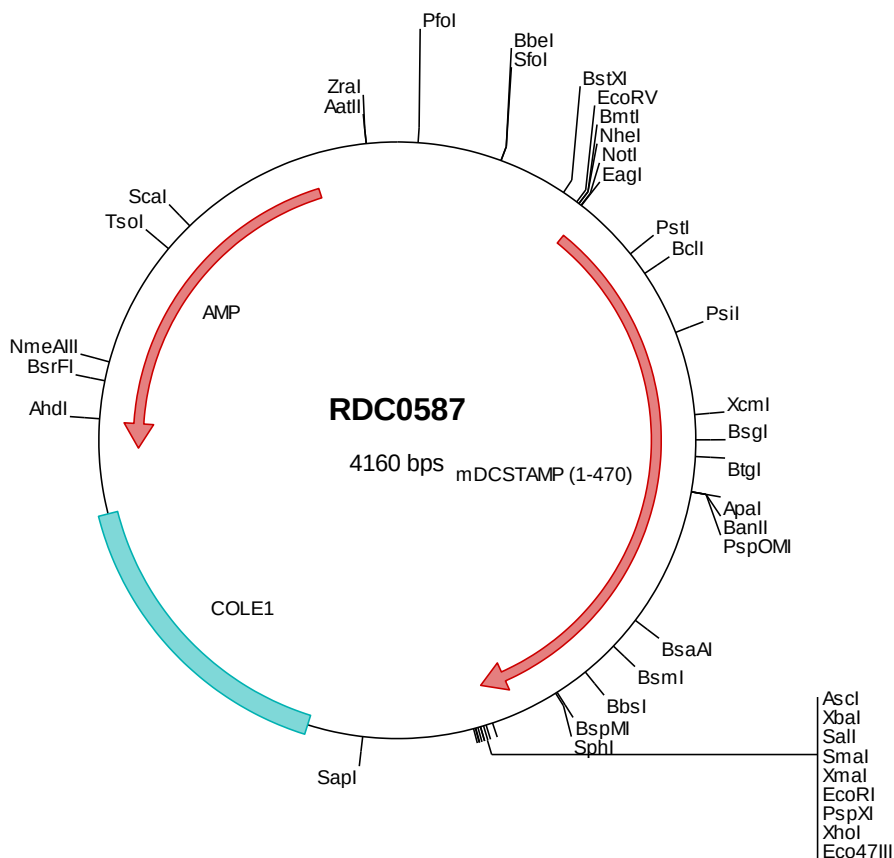
## mDCSTAMP cDNA Plasmid

**Dcstamp dendrocyte expressed seven transmembrane protein [ *Mus musculus* ]**

**Also known as:** FIND; Tm7sf4; DC-STAMP; mDC-STAMP

### Summary:

DCSTAMP is a seven transmembrane protein that is expressed primarily by dendritic cells. It is involved in a wide range of immunological functions and plays a role in osteoclastogenesis and myeloid differentiation. Expression of DCSTAMP is rapidly induced in osteoclast precursor cells by RANKL and other osteoclastogenic stimulations.





## > RDC0587 Plasmid DNA Sequence

```
1      tcgcgcggttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccc
101    tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201    ccgcacagat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggg  aaggcgcatc  ggtgcgggcc  tcttcgctat
301    tacgccagct  ggcgaaaggg  ggatgtgctg  caaggcgatt  aagtttggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaatt
401    ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcaccc  atgaggctct  ggaccttggg  caccagattt  ttctctgagg  ttgtgggggac
501    ttatgtgttc  ccacgaagcc  ctatgtggct  ggaacttaac  cagcatttgg  gagtctgttg  ctttgtggcc  ttcttttcgg  tgagcctott  ctctgcagcc
601    ttttaactgga  tcctgcccac  cgttgccctg  ctctctcttg  totggatgat  cacctgtgtt  ttctatgct  gttccaagcg  cgcacgatgc  ttctattctt
701    tgcccgctct  gtcgtgtggc  ctccgtgaag  gtaggaacgc  tttgattgcg  gctggcaact  gggtagtgat  ctttggacat  gtggaaaata  tttttataaa
801    cttcagaggt  ctctagaga  gcaatgactg  caacctaaag  gcaagagct  ttccagtaca  ttcccactt  ttaaaacggt  atactgaagc  catccagtgg
901    atttaaggcc  ttgccaactc  gctgaattca  tttgatgacc  ttgtttcttg  gaaccagact  ctggtggtct  ctctttttag  tcccagccat  gccctggagg
1001   ctcatatgaa  tgacactaga  ggagaagtcc  tgggagtcct  gcacctatg  gtggtcacga  cagagctgtt  gacttccgtg  ggccagaagt  tgettgccct
1101   tgccgggctt  ctgctcatcc  tagtcagcac  tggcctcttc  ctgaagcgat  tcttgggccc  ttgtggctgg  aagtatgaga  atgtctacat  caccaaaaca
1201   tttgttcggt  ttgatgaaaa  ggagaggcac  caacagcgcc  cctgtgtcct  cccgctgaat  aagaaggaaa  ggaagaaata  tgtcatcgtc  ccacttttgc
1301   agctgactcc  taaggagaa  aaaacccctg  ggtgtgttct  ccttccctgc  ctgacctatc  totacatgtg  ggtgtgtttt  gccgtgttgg  actatctgtc
1401   gtatcggtct  atctcctcca  tgaacaaaca  gttccaaagg  ttgccagggc  ttgaagtcca  cttgaaacta  cgtggagaga  agcaaggaa  ccaaggagtc
1501   gtccatgatt  ctgctcttaa  tatatctatg  tttgaaccga  gctgcattcc  taaaccaact  ctcaagtgtg  ctgagacttg  ggttcccttc  agtattatct
1601   tgttaacact  aataatacta  ggattgttgt  cttctatgct  gatgcagctt  aaaattctcg  tgctagcttc  cttctacccc  aaagtggaga  gggagagaa
1701   tgaatacctg  catgcgaagc  tccttgagaa  acgatcaaa  cagccattga  gagaggctga  cgggaaacgc  agcctgtact  ttaaaaagat  tcatttctgg
1801   tttccagtc  tgaaaatgat  taggaagaag  cagacaatcc  ctgcaaatga  agatgatcta  taaaggcgcg  caagtatact  ctagagtoga  cccccgggga
1901   attctctgag  cgctcgtctc  tagcttggcg  taatcatggt  catagctgtt  tctgtgtgta  aattgttatt  cgctcacaat  tccacacaac  atacgagccg
2001   gaagcataaa  gtgtaaaagg  ttgggtgcct  aatgagtga  ctaactcaca  ttaattgcgt  tgcgctcact  gcccgctttc  cagtcgggaa  acctgtctgt
2101   ccagctgcat  taatgaatcg  gccaacgcgc  ggggagaggc  ggtttgcgta  ttggcgcttc  ttccgcttcc  tcgctcactg  actcgctcgc  ctcggtcgtt
2201   cggctgcggc  gagcggatcc  agctcactca  aaggcggtaa  tacggttatc  cacagaatac  ggggataacg  caggaaagaa  catgtgagca  aaaggccagc
2301   aaaaaggccg  gaaccgctaa  aaggcgcgct  tgctggcggt  ttcccatagg  ctcgcgcccc  ctctcctgtt  cctctcgtgc  cgttaccggt  atacctgtcc
2401   gcgaaacccg  acaggactat  aaagatacca  ggcgtttccc  cctggaagct  cagcgtgtag  gtatctcagt  tcggtgtagg  tcggttcgct  caagctgggc
2501   gccctttctc  cttcggaag  cgtggcgctt  tctcaatgct  cagcgtgtag  tatcgtctct  caggtccaac  cggttaagac  cgacttatcg  ccactggcag
2601   aacccccctg  tcagcccgac  cgctgcgctc  tatccggtta  ctatcgtctt  ctatcgtctt  gatgccaacc  aggttaagac  cgacttatcg  ccactggcag
2701   taacaggatt  agcagagcga  ggtatgtagg  cgtgctaca  gagttcttga  agtggtggcc  taactacgcg  tacactagaa  ggacagtatt  tggtatctgc
2801   gctctgctga  agccagttac  cttcgaaaa  agagtttgta  gctcttgatc  cggcaacaaa  accaccgctg  gtacgggtgg  tttttttgtt  tgcaagcagc
2901   agattacgcg  cagaaaaaaa  ggaatcctaa  aagatccttt  gatcttttct  acggggtctg  acgctcagtg  gaacgaaaa  tcacgttaag  ggatttttgt
3001   catgagatta  tcaaaaagga  tcttcacct  gatcctttta  aattaaaaat  gaagttttaa  atcaatctaa  agtatatatg  agtaaaactg  gtcgtacagt
3101   taccaatgct  taatcagtga  ggcacctatc  tcacgcatct  gtctatttgc  ttcatccata  gttgcctgac  tccccgctcg  gtatagaact  acgataccgg
3201   agggcttacc  atctggcccc  agtgctgcaa  tgataccgcg  agaccacgc  tcaccggctc  cagatttato  agcaataaac  cagccagccc  gaaggccga
3301   gcgcagaagt  ggtcctgcaa  ctttatccgc  ctccatccag  totattaatt  gttgccggga  agctagagta  agtagttcgc  cagttaatag  tttgcgcaac
3401   gttgttgcca  ttgctacagg  catcgtggtg  tcacgctcgt  cgtttggtat  ggttccattc  agctccggtt  cccaacgac  aaggcgagtt  acatgatccc
3501   ccatgtttgt  caaaaaagcg  gttagctcct  tcggtctctc  gatcgtttgc  agaagtaagt  tggccgcaat  gttatcactc  atggttatgt  cagcactgca
3601   taattctctt  actgtcatgc  catccgtaag  atgcttttct  gtgactgttg  agtaactaac  caagtcatto  tgagaatagt  gtatgcggcg  accgagttgc
3701   ttttgcccg  gctcaatacg  ggataatacc  gcgcacata  gcagaacttt  aaaaagtctc  atcattggaa  aacgttcttc  gggcgcaaaa  cctctcaagg
3801   tcttacccgt  gttgagatcc  agttcgatgt  aacccactcg  tgaccccaac  tgatcttcag  catcttttac  tttcaccagc  gtttctgggt  gagcaaaaac
3901   aggaaggcaa  aatgccgcaa  aaaagggaat  aaggcgacga  cggaaatggt  gaataactgt  actcttctct  tttcaatatt  attgaagcat  ttatcagggt
4001   tattgtctca  ttgacggata  catatttgaa  tgtatttga  aaaataaaca  aatagggtgt  ccgcgcacat  ttccccgaaa  agtgccacct  gacgtctaag
4101   aaaccattat  tatcatgaca  ttaacctata  aaaataggcg  tatcacgagg  ccttctcgtc
```

## > RDC0587 Translated Insert Sequence

```
1      mrlwtlgtsi  flrlwgtvyf  prpswldfi  qhlgvccfva  flsvslfsaa  fywilppval  lssvwmitcv  flccskrarc  fillavlscl  lregrnalia
101    agtgvvifgh  venifynfrg  lldsmctnlr  aksfsvhfpl  lkryteaigw  iyglatplnl  fddlvwnqt  lvvslfspsh  aleahmndtr  gevlgvlhmm
201    vvtelltsv  gqklialag  llilvstglf  lkrflgpcgw  kyenvyitkq  fvrfdkerh  qqrpcvlpn  kkerkkyviv  pslqltpkek  ktlglflfpv
301    ltylymwvlf  aavdylllyl  issmnpkfqs  lpglevhlkl  rgekqgtqgw  vhdsafnism  fepscipkpr  lsvsetwvpl  siilltlil  glssmlmq
401    kilvsvsfyp  kverierley  haklekrsk  qpilreadgk  slyfkkihfv  fpvlkmirrk  qtipanedd
```