

Specifications:

Gene:	hDPEP1
Accession:	NP_004404.1
Insert size:	1249bp
Concentration:	10µg at 0.2µg/µL

**hDPEP1 cDNA
Plasmid**

DPEP1 dipeptidase 1 [*Homo sapiens* (human)]

Also known as: MDP; RDP; MBD1

Summary:

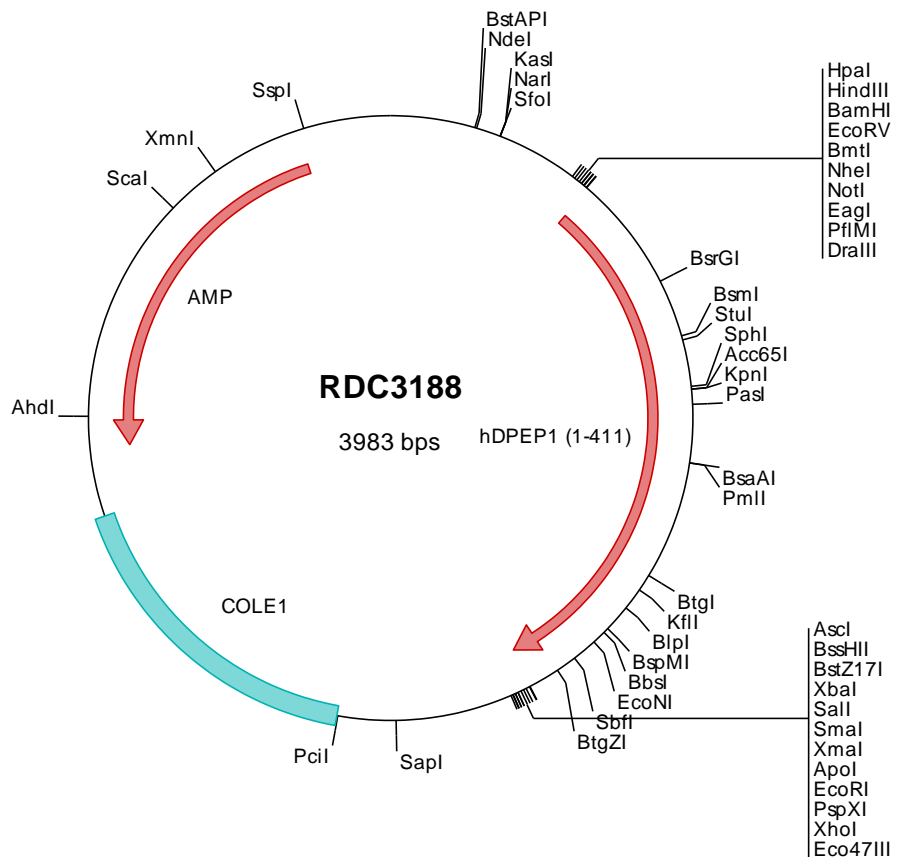
DPEP1 is a kidney membrane enzyme involved in the metabolism of glutathione and other similar proteins by dipeptide hydrolysis. It is known to regulate leukotriene activity by catalyzing the conversion of leukotriene D4 to leukotriene E4. DPEP1 uses zinc as a cofactor and acts as a disulfide-linked homodimer.

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.



> RDC3188 Plasmid DNA Sequence

```

1   tcgctgctgtt  cggatgatgac  ggtgaaaacc  totgacacat  gcagctcccc  gagacgggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccc
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attgccatt  caggctcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaaagg  ggatgtgctg  caaggcgatt  caagttggga  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgccacc  atgtggagcg  gatggtggct  gtggccctt  gtggccgtct  gcactgcaga
501  cttctttcgg  gacgaggcag  agaggatcat  gagggactcc  cctgtcattg  atgggcacaa  tgacctcccc  tggcagctgc  tggatatggt  caacaaccgg
601  ctgcaggacg  agagggcaa  cctgaccacc  ttggccggca  cacacacaa  catcccaag  ctgaggggcg  gctttgtggg  aggccagttc  tggtcctgt
701  acacgccctg  cgacaccag  aacaaagacg  ccgtgcggag  gacgtggag  cagatggacg  tggtcaccgg  catgtgccgg  atgtaccgg  agaccttct
801  gtatgtcacc  agcagtcag  gcattcggca  ggccctccgg  gaagggaagg  tggccagcct  gatcggcgtg  gagggcgcc  actccattga  cagcagtttg
901  ggcgtctcgc  gggcactcta  tcagctgggc  atgocgtacc  tgacctcc  ccacagctgc  aacacgcct  gggctgcaa  ctggctggg  gacaagggag
1001 acagcgcccg  ccagagccaa  ggcttgcac  cctttgggca  gcgtgtgtg  aaggagctga  accgtctggg  ggtcctcacc  gacttggctc  acgtgtotgt
1101 ggccaccatg  aaggccacc  tgacgtgtc  cagagcccg  gtcatctca  gccactctc  ggctacagc  gtgtgcaaa  gccggcgcaa  cgtgctgac
1201 gacgtctga  ggctggtgaa  acagacagac  agcctgtgta  tgggtgaact  ttacaacaa  tacattctc  gcaccaaaa  ggcaacctg  tcccaagtgg
1301 cggacacatc  agatcaccac  aaggaggtg  caggagccag  agcctgggt  ttgtgtggg  actttgatgg  tgttccaagg  gtcctcagg  gctggaggga
1401 cgtctccaag  tatccagacc  tgatcgtga  cgtgctcagg  aggaactgga  cggaggcgga  ggtcaagggc  gcactggctg  acaacctgct  gagggtcttc
1501 gaggctggg  aacaggccag  caacctca  caggctcccc  agggagcgc  atcccctg  gaccagctg  gtggctctg  caggaccat  tacgctatc
1601 cctctgggc  ttccggctc  gggggctcct  gctggcctcc  ctgctcccc  ttgtctctc  tctgtctctc  ctgtaaaagg  gcgccagtat  gcgccagtat
1701 actctagagt  cgacaccgg  ggaattcctc  gagcgtcgt  ctctagcttg  gcgtaatcat  ggtcatagct  gtttcctgtg  tgaattggt  atccgctcac
1801 aattccacac  aacatacag  ccggaagcat  aaagtgtaaa  gcttggggg  cctaatgat  gagctaac  acatattatg  cgttgcgct  ctctccgct
1901 ttccagctcg  gaaacctgtc  gtgccaagt  cattaatgaa  cgtgcccacg  cgcggggaga  cgcgggtttg  gtattgggg  ctcttccgct  tcctcgtca
2001 ctgactcgtc  gcgctcggtc  gttcggctgc  ggcgagcgt  atcagctcac  tcaaaaggcg  taatacgtt  atccacagaa  ccaggggata  acgcaggaaa
2101 gaacatgtga  gcaaaaggcc  agcaaaaggc  caggaacct  aaaaaggcc  cgttgcctgg  gtttttccat  aggcctccgc  ccctcagca  gcatcaaaa
2201 aatcgacct  caagtcaag  gtggcgaaa  ccgacagac  tataaagata  ccaggcgtt  cccccggaa  gctccctcgt  gcgctctct  gctccgacc
2301 tgccgcttac  cggatactg  tcgcctttc  tccttcggg  aagcgtggcg  ctttctcaat  gctcacgctg  taggtatctc  agttcggtgt  aggtcgttcg
2401 ctccaagctg  ggcgtgtgct  acgaaccccc  cgttcaagcc  gaccgctgct  cttatccgg  cttatccgg  taactatct  cttgagtcca  acccgtaag
2501 tcgccactgg  cagcagccac  tggtaacagg  attagcagag  cgaggtatg  agggcgtgct  acagagtct  tgaagtggg  gcctaactac  ggtacacta
2601 gaaggacagt  atttggtatc  tgcgctctgc  tgaagccagt  tacctcggga  aaaagagttg  tagctcttg  atccggcaaa  caaacaccg  ctggtagcgg
2701 tggttttttt  gtttgcaagc  agcagattac  gcgcagaaaa  aaaggtatct  aagaagatcc  tttgatctt  tctacgggg  ctgacgctca  gtggaacgaa
2801 aactcacgtt  aagggatttt  ggtcatgaga  ttatcaaaaa  ggatcttacc  ctagatcctt  ttaaatata  aatgaagtt  taaatcaat  taaagtatat
2901 atgagtaaac  ttgtctgac  agttaacca  gcttaatac  tgaggcacct  atctcagcga  tctgtctatt  tcgttcatcc  atagttgct  gactccccgt
3001 cgtgtagata  actacgatac  gggagggctt  accatctggc  cccagtctg  caatgatacc  cgcgagacca  cgctcaccg  ctccagatt  atcagcaata
3101 aaccagccag  ccggaaggcc  cgagcgcaga  agtggctctg  caactttatc  cgcctccatc  cagcttatta  attgttccg  ggaagctaga  gtaagtgtt
3201 cgccagttaa  tagtttgcgc  aacgttgtg  ccatgtctac  aggcactgct  gtgtcacgct  cgtcgtttg  tatggctca  ttcagctccg  gttcccaacg
3301 atcaaggcga  gttacatgat  ccccaatg  gtgcaaaaa  gcggttagct  ccttcggctc  tccgatcgtt  gtcagaaag  agttggccgc  agtgttata
3401 ctcatggtta  tggcagcact  gcataattct  cttactgtca  tgccatccgt  aagatgcttt  tctgtgactg  gtgagtactc  aaccaagtca  tcttgagaat
3501 agtgtatgcg  gcgaccgagt  tgctcttgcc  cggcgtcaat  acgggataat  accgcgccac  atagcagaac  tttaaaagt  ctcatcattg  gaaaaagttc
3601 ttcggggcga  aaactctcaa  ggatcttacc  gctgttgaga  tccagttcga  tgtaaccacc  tcgtgcaccc  aactgatctt  cagcatcttt  tactttcacc
3701 agcgtttctg  ggtgagcaaa  aacaggaagg  caaaatgccg  caaaaaagg  aataaggcg  acacggaaat  gttgaatact  catactcttc  ctttttcaat
3801 attattgaag  catttatcag  ggttattgtc  tcatgagcgg  atacatatt  gaatgtatt  agaaaaata  acaaatagg  gttcccgca  catttccccg
3901 aaaaagtcca  cctgacgtct  aagaaacct  tattatcatg  acattaacct  ataaaaatag  ccgatcacg  aggccctttc  gtc

```

> RDC3188 Translated Insert Sequence

```

1   mwsqwwlwp1  vavctadffr  deaerimrds  pvidghndlp  wqlldmfnr  lqderanlft  lagthtnipk  lragfvvggf  wsvytpcdtq  nkдавrrtle
101  qmdvvhmrcr  mypetflyvt  ssagirqaf  egkvaslig  egghsidssl  gyrlalyqlg  mryltlthsc  ntpwadnwl  dtgdsepqsq  glspfgqrvv
201  keInrlglvli  dlahsvatm  katqlsrp  vifshssays  vcastrnvpd  dvlrlvkqtd  slvmvnyfnn  yisctnkanl  sqvadhlhdi  kevagaravg
301  fggdfdgvpr  vpegledvsk  ypdliaellr  rnwteaevkg  aladnllrvf  eaveqasnl  qapeeepipl  dlqgscrth  ygyssgassl  hrhwglllas
401  laplvlcsl  l

```