

Specifications:

Gene:	<i>h</i> ENPP3
Accession:	NP_005012
Insert size:	2641bp
Concentration:	10µg at 0.2µg/µL

*h*ENPP-3/CD203c cDNA Plasmid

**ENPP3 ectonucleotide
pyrophosphatase/phosphodiesterase 3 [*Homo sapiens*
(human)]**

Also known as: B10; NPP3; PDNP3;
CD203c; PD-IBETA

Summary:

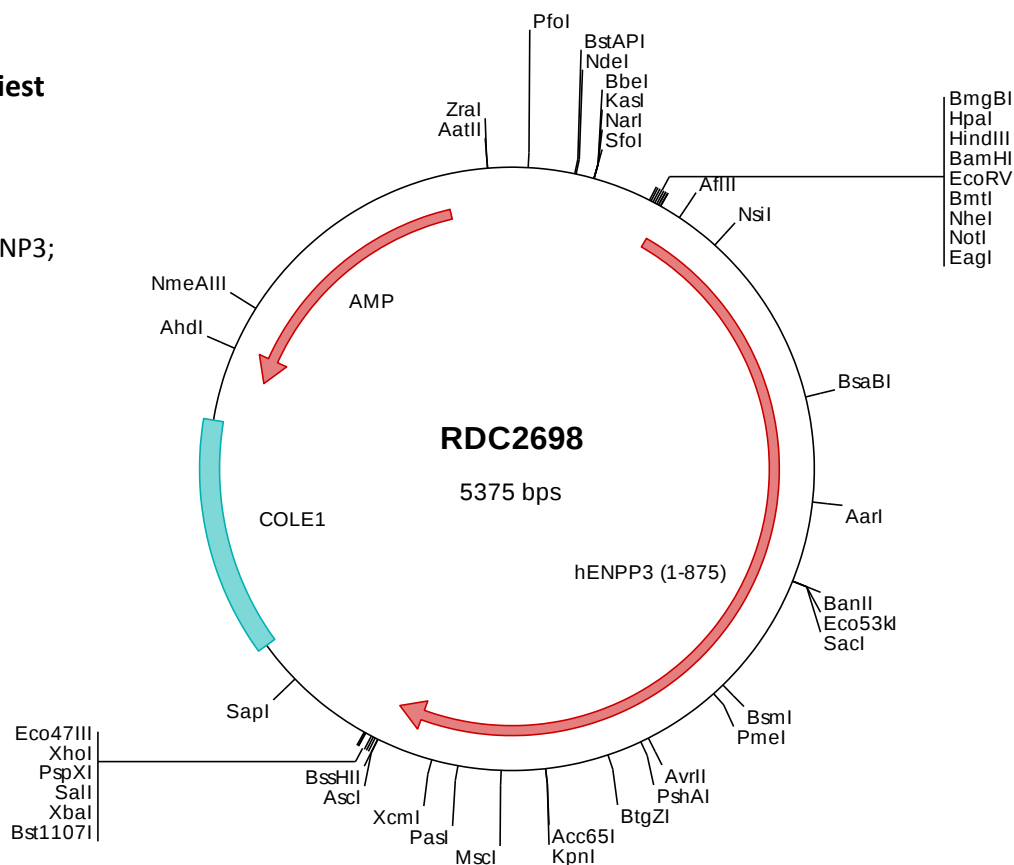
ENPP3 belongs to a family of ectoenzymes that are involved in hydrolysis of extracellular nucleotides. These ectoenzymes possess ATPase and ATP pyrophosphatase activities and are type II transmembrane proteins. ENPP3 is expressed on activated basophils and mast cells during allergic reactions, cardiac muscle, hepatocytes, and epithelial cells. It is upregulated in colon and bile duct carcinomas.

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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2698 Plasmid DNA Sequence

```

1  tcgcgcgcttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacgggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccg
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaaagg  ggaatgtctg  caaggcgatt  aagttgggta  agcccgagg  tttcccgatc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggaatcgata  tcgctagcgc  ggccgcccac  atgggaatcta  cgttgacttt  agcaacggaa  caacctgtta  agaagaacac
501  tottaagaaa  tataaaatag  cttgcattgt  tcttcttctg  ttgctgttga  tcatgtcact  tggattaggg  ctggggcttg  gactcaggaa  actggaaaag
601  caaggcagct  gcaggaagaa  gtgctttgat  gcatcattta  gaggactgga  gaactgccgg  tgtgatgtgg  catgtaaaga  ccgagggtgat  tgcgtctggg
701  attttgaaga  cactctgttg  gaataaactc  gaatatggat  gtgcaataaa  tttcgttctg  gagagaccag  attagaggcc  agccttctgt  cttgttcaaga
801  tgactgtttg  cagaggaaag  attgctgtgc  tgactataag  agtgttttgc  aaggagaaac  ctcatggctg  gaagaaaact  gtgacacagc  ccagcagctt
901  cagtgcocag  aagggtttga  cctgccacca  gttatcttgt  tttctatgga  tggatttaga  gctgaatatt  tatacacatg  ggaactttta  atgcacaata
1001  tcaataaact  gaaaacatgt  ggaattcatt  caaaatacat  gagagctatg  tatcctacca  aaaccttccc  aaatcattac  accattgtca  cgggcttgta
1101  tccagagtc  catggcatca  ttgacaataa  tatgtatgat  gtaaatctca  acaagaattt  ttcaactttc  tcaaaaggaa  aaaataatcc  agcctgggtg
1201  catgggcaac  caatgtggct  gacagcaatg  tatcaaggtt  taaaaggcgc  taaccttttt  tggcccgatg  cagaagtggc  tataaatggc  tcctttctct
1301  cactatacat  gctttacaac  catttgagga  gaggatgttc  atcactgtta  aatggcttga  aatggcttga  cctgcccaca  gataaaggac  cgggcttgta
1401  taccatgtat  tttgaagaac  ctgattcctc  tggacatgca  ggtggacagg  tcatgtccag  agtaattaaa  gcocttacag  tagtagatca  tgcctttggg
1501  atgttgatgg  aggccctgaa  gcagcgggat  ttgcacaaat  gtgtcaatat  cctccttctg  gctgacctgc  gaatggacca  gacttattgt  aacaagatgg
1601  aatacatatg  tgattatttt  acttcttcta  catgtacgaa  ggcagatcgc  gggccttccc  cccgcatccg  agctcataat  agctctatgt  acttttttag
1701  ttttaattct  gaggaaattg  ttgaaacctc  cagtgtccga  aaacctgctc  agcattttaa  gcoctatttg  actcctgatt  tgcaaaagcg  actgcaacta
1801  gccaaagaac  tcagaatcga  caaagtctat  ctcttttgtg  atcaacagtg  gctggtctgt  aggagtaaat  caaatacaaa  ttgtggagga  ggcaaccatg
1901  gttataaact  tgagtttagg  agcatggagg  ctatctttct  ggcacatgga  cccagtttga  aagagaagac  tgaagttaa  ccaattgtaa  atattgaagt
2001  ctataaccta  atgtgtgatc  ttctacgat  tcaaccagca  ccaacaatg  gaacccatgg  tagtttaaac  catcttctga  aggtgccttt  ttagtagcca
2101  tcccatgcag  aggaggtgtc  aaagtttctc  gtttgtggct  ttgttaattc  atgtgccaca  gaggcttctt  actgttctgt  cccctaccta  caaaaatgta
2201  ctcagctgga  acaagtgaat  cagatgctaa  atctacccca  agaagaata  acagcaacag  tgaaagttaa  tttgcccatt  gggaggccta  gggtaactga
2301  gaagaacgtg  gaccactgtc  tcctttacca  cagggaatat  gtcagtggtt  ttggaaaagc  tatgaggtat  cccatgttga  gttcatacac  ttctcccccag
2401  ttgggagaca  ctgcctctct  gctcccaact  gtccagact  gtctgcgggc  tgatgtccag  gttcctcctt  ctgagagcca  aaaaagttcc  ttctatttag
2501  cagacaagaa  tatacccacc  ggcctcctct  atcctcctgc  cagcaaatga  acatcagata  gccaatatga  tgctttaatt  actagcaatt  tggtaacctat
2601  gtatgaagaa  ttcagaaaa  ttctgggacta  ctccacagtg  gttcttctta  taaaacatgc  cacagaaaga  aatggagtaa  atgtggttag  tggaccaata
2701  ttatgattga  attatgatgg  ccaattttgat  gctccagatg  aaattaccaa  aaccttgacc  aaccttgatg  ttcccatccc  aacacactac  ttgttggtgc
2801  tgaccagtgg  taaaaacaag  agccacacac  cggaaaactc  cccgtgggtg  ctggatgtcc  taccctttat  catccctcac  cgacctacca  acgtggagag
2901  ctgtcctgaa  ggttaaacag  agtctctttg  ggttgaagaa  agatttacag  ctacacttgc  ccgggtccgt  gatgtagaac  ttctcactgg  cgttgacttc
3001  tatcaggata  aagtgcagcc  attttgcac  attttgcac  ttgtacata  ttgtacata  ttgtacata  ttgtacata  ttgtacata  ttgtacata
3101  gtcgacaccc  ggggaattcc  tcgagcgtc  gtcctatagt  tggcgtaact  atggtcatag  ctgtttcctg  tgtgaaattg  ttatccgctc  acaattccac
3201  acaacatac  agccggaagg  ataaagtgt  aagcctgggg  tgccataatg  tgagagtaac  tcacattaat  tgcgttgcgc  tcaactgccc  ctttcagctc
3301  gggaaacctg  tcgtgcagc  tgcaataatg  aatcgcccaa  cgcgcgggga  gaggcgtgtt  cgttatttgg  cgctcttcgc  ctctcctcgc  ctactcctgc
3401  ctgcgctcgg  tcgttcggct  gcggcgagcg  gtatcagctc  actcaaaagg  ggtaatacgg  ttatccacag  aatcagggga  taacgcagga  aagaacatgt
3501  gagcaaaaag  ccagcaaaaag  gccaggaacc  gtaaaaaggc  cgcgttgcgt  gcgttttttc  ataggctcgc  ccccccgtac  gagcatcaca  aaaaatcgag
3601  ctcaagctag  aggtggcgaa  accgcagcag  actataaaga  taccaggcgt  ttccccctgg  aagctccctc  gtgcgtctc  ctgttccgac  cctgccgctt
3701  accggatacc  tgtccgctct  tctcccttgc  ggaagcgttg  cgctttctca  atgctcacgc  tgtaggtatc  tcagttcgg  gttaggtcgt  cgctccaagc
3801  tgggctgtgt  gacgcaaccc  cccgttcagc  ccgacgcgtg  cgcttatccc  ggtaactatc  gtcttgagtc  caaccgggta  agacacagct  tatcgccact
3901  ggcagcagcc  actgtaaca  ggattagcag  agcgaggtat  gtaggcgggt  ctacagagtt  ctgaaagtgg  tggcctaact  accgctacac  cagcgtgtagc
4001  gtatttggta  tctgcgctct  gctgaagcca  gttaccttgc  gaaaagagtg  tggtagctct  tgatccggca  aacaaaccac  cgctggtagc  ggtggttttt
4101  ttgtttgcaa  gcagcagatt  acgcgcagaa  aaaaaggatc  tcaagaagat  cctttgatct  ttttcaatga  tttctacggg  gtctgacgct  cagtggaacg
4201  ttaagggatt  ttggtcatga  gattatcaaa  aaggatcttc  acctagatcc  ttttaaatga  ttaaatcaaa  tctaaagtat  tctaaagtat  atatgagtaa
4301  acttggtctg  acagttacca  atgcttaact  agtgaggcac  ctatctcagc  gatctgtcta  tttcgttcat  ccatagttgc  cctagtttgc  ctgactcccc
4401  taactacgat  acgggagggc  ttaccatctg  gccccagtcg  tgcaatgata  tccagctctat  cccgcgagac  ggctccagat  ggctccagat  ttatcagcaa
4501  agccggaagg  gccgagcgca  gaagtgttcc  tgcactttta  tccgctctca  tccagctctat  taattgttgc  cgggaagcta  gagtaagtag  ttcccgagtt
4601  aatagtttgc  gcaacgttgt  tgccattgct  acaggcatcg  ttggtgtcac  ctctcgttgc  ttgtcagaa  taagtggcc  taagtggcc  taagtggcc
4701  gagttacatg  atccccatg  ttgtgcaaaa  aagcggttag  ctccctcggt  ttctctgtac  ttgtgagtag  tggtagtag  tggtagtag  tggtagtag
4801  tatggcagca  ctgcataatt  ctcttactgt  catgccatcc  gtaagatgct  ttctctgtac  ttgtgagtag  tggtagtag  tggtagtag  tggtagtag
4901  cggcgaccga  gttgctcttg  cccggcgctc  ataccggata  ataccggcgc  gatgtaaccc  actcgtgcac  ccaactgato  ccaactgato  ccaactgato
5001  gaaaactctc  aaggatctta  ccgctgttga  gatccagttc  ggaataaggg  ggaataaggg  ggaataaggg  ggaataaggg  ggaataaggg  ggaataaggg
5101  tgggtgagca  aaaaacaggaa  ggcaaaatgc  cgcaaaaagg  ggaataaggg  ggaataaggg  ggaataaggg  ggaataaggg  ggaataaggg  ggaataaggg
5201  agcattttat  agggttattg  tctcatgagc  ggatacatat  ttgaatgtat  ttgaatgtat  ttgaatgtat  ttgaatgtat  ttgaatgtat  ttgaatgtat
5301  cactgaagct  ctaagaagcc  attattatca  tgacattaac  ctataaaaat  aggcgtatca  cagagccctt  cgagccctt  cgagccctt  cgagccctt

```

> RDC2698 Translated Insert Sequence

```

1  mestltlate  qpvkntllk  ykiacivlla  llvimslglg  lglglrklek  qgsckkkcfd  asfrglencr  cdvackdrgrd  ccwdfedtcv  estriwmcnk
101  frcgetrlea  slscsddcl  qrkdcacady  svcqgetswl  eencdtaqgs  qcpegfdlpp  vilfsmdgfr  aeylytwdtl  mpninklktc  gihsnymram
201  yptktftphny  tivtglypes  hgiidnmyd  vnlknfsls  skegnnpaww  hgqpmwlmta  yqglkaatyf  wpqsevaing  sfpslympyn  gsvpfeeris
301  tllkwldlpk  aerprfytm  feepdssgha  ggpvsarvik  alqvvdhafg  mlmeglkqrn  lhncvniill  adhgmddqtyc  nkmeymtdyf  prinffymye
401  gpapriahn  iphdfsfns  eeiurnlscr  kpdqhfkypl  tpdlpkrlhy  aknvidkvh  lfvdqqlav  rksntnccg  gnhygnnefr  smeafilahg
501  psfekteve  pfenievyn  mcdllriqpa  pnnthgsln  hllkvpfyep  shaeevskfs  vcgfanplpt  esldcfcp  qnstdlegvn  qmlnltgeei
601  tatvkvnlpf  grprvlqknv  dhcllyhrey  vsfgkamrm  pmwssytvpq  lgdtsplppt  vpdclradvr  vppsesqkes  fyladknith  gflyppasnr
701  tsdsqydali  tsnlvpmjee  frkmwdyfh  vllikhater  ngvnnvsgpi  fdynydhfd  apdeitkhla  ntdvpipthy  fvvltscnnk  shtpenccpg
801  ldvlpfiiph  rptnvescpe  gkpealwree  rftahiarvr  dvelltglfd  yqdkvqpse  ilqlktylpt  fetti

```