

# PGPEP1 cDNA

Catalog Number: ATGD0329

## PRODUCT INFORMATION

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**Catalog number**

ATGD0329

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_060182.1

**Alternative Names**

PAP-I, Pcp, PGP, PGP-I, PGPI, Pyroglutamyl-peptidase 1

**mRNA Refseq**

NM\_017712.3

**OMIM**

610694

**Chromosome location**

19p13.11

## PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

630bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
  2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

## PGPEP1 cDNA

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PGPEP1 (pyroglutamyl peptidase I) catalyzes the hydrolysis of N-terminal pyroglutamyl residues from oligopeptides and proteins.

### DATA

#### Sequence nucleotides

```
ATGGAGCAGCCGAGGAAGGCGGTGGTAGTGACGGGATTTGGCCCTTTTGGGGAACACACCGTGAACGCCAGTTGGATTGC
AGTTCAGGAGCTAGAAAAAGCTAGGCCTTGGCGACAGCGTGGACCTGCATGTGTACGAGATTCCGGTTGAGTACCAAACAGT
CCAGAGACTCATCCCCGCCCTGTGGGAGAAGCACAGTCCACAGCTGGTGGTGCATGTGGGGGTGTCAGGCATGGCGACCA
CAGTCACACTGGAGAAATGTGGACACAACAAGGGCTACAAGGGGCTGGACAACCTGCCGCTTTTGCCCCGGCTCCCAGTGCT
GCGTGGAGGACGGGCCTGAAAGCATTGACTCCATCATCGACATGGATGCTGTGTGCAAGCGAGTCACCACGTTGGGCCTG
GATGTGTCGGTGACCATCTCGCAGGATGCCGGCAGATATCTCTGCGACTTTACCTACTACACCTCTTTGTACCAGAGTCACG
GTCGATCAGCCTTCGTCCACGTGCCCCCACTGGGGAAGCCGTACAACGCGGACCAGCTGGGCAGGGCACTGAGAGCCATC
ATTGAGGAGATGTTGGACCTCCTGGAGCAGTCAGAGGGCAAATCAACTATTGCCACAAACACTGA
```

#### Transaction Sequence

```
MEQPRKAVVV TGFPGFGEHT VNASWIAVQE LEKLGLGDSV DLHVEIPVE YQTVQRLIPA LWEKHSPQLV VHVGVSGMAT
TVTLEKCGHN KGYKGLDNCR FCPGSQCCVE DGPESIDSII DMDAVCKRVT TLGLDVSVTI SQDAGRYLCD FTYTSLYQS
HGRSAFVHVP PLGKPYNADQ LGRALRAIIE EMLDLLEQSE GKINYCHKH
```