

Product datasheet for **RC235686**

PGPEP1 (NM_001300927) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PGPEP1 (NM_001300927) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PGPEP1
Synonyms: PAP-I; Pcp; PGI; PGP; PGP-I; PGPI
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235686 representing NM_001300927
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCAGCCGAGGAAGCGGTGGTAGTGACGGGATTTGGCCCTTTGGGGAACACACCGTGAACGCCA
GTTGGATTGCAGTTCAGGAGCTAGAAAAGCTAGGCCTTGGCGACAGCGTGGACCTGCATGTGTACGAGAT
TCCGGTTGAGTACCAAACAGTCCAGAGACTCATCCCCCCTGTGGGAGAAGCACAGTCCACAGATATCT
CTGCGACTTTACCTACTACACCTTTGTACCAGAGTCACGGTTCGATCAGCCTTCGTCCACGTGCCCCCA
CTGGGGAAGCCGTACAACCGGACCAGCTGGGCAGGGCACTGAGAGCCATCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235686 representing NM_001300927
Red=Cloning site Green=Tags(s)

MEQPRKAVVVTGFGPFGEHTVNASWIAVQELEKLLGLGDSVDLHVYEIPVEYQTVQRLIPALWEKHSPQIS
LRLYLLHLFVPESRSISLRPRAPTGEAVQRGPAGQGTESH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

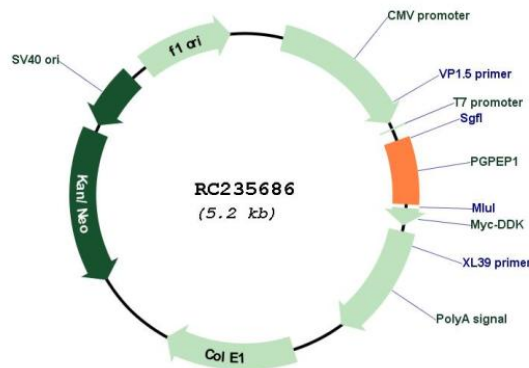


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001300927

ORF Size: 333 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001300927.2
RefSeq Size:	6862 bp
RefSeq ORF:	336 bp
Locus ID:	54858
UniProt ID:	Q9NXJ5
Cytogenetics:	19p13.11
Protein Families:	Druggable Genome, Protease
MW:	12.8 kDa
Gene Summary:	The gene encodes a cysteine protease and member of the peptidase C15 family of proteins. The encoded protein cleaves amino terminal pyroglutamate residues from protein substrates including thyrotropin-releasing hormone and other neuropeptides. Expression of this gene may be downregulated in colorectal cancer, while activity of the encoded protein may be negatively correlated with cancer progression in colorectal cancer patients. Activity of the encoded protease may also be altered in other disease states including in liver cirrhosis, which is associated with reduced protease activity, and in necrozoospermia, which is associated with elevated protease activity. [provided by RefSeq, Jul 2016]