

## Product datasheet for **SC333580**

### PGPEP1 (NM\_001300927) Human Untagged Clone

#### Product data:

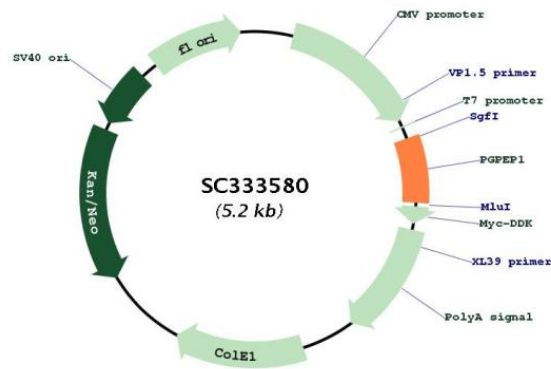
Product Type:	Expression Plasmids
Product Name:	PGPEP1 (NM_001300927) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGPEP1
Synonyms:	PAP-I; Pcp; PGI; PGP; PGP-I; PGPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333580 representing NM_001300927. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCAGCCGAGGAAGGCGGTGGTAGTGACGGGATTTGGCCCTTTGGGGAACACACCGTGAACGCC
AGTTGGATTGCAGTTCAGGAGCTAGAAAAGCTAGGCCTTGGCGACAGCGTGGACCTGCATGTGTACGAG
ATTCCGGTTGAGTACAAACAGTCCAGAGACTCATCCCCGCCCTGTGGGAGAAGCACAGTCCACAGATA
TCTCTGCGACTTACCTACTACACCTCTTTGTACCAGAGTCACGGTCGATCAGCCTTCGTCCACGTGCC
CCCCTGGGGAAGCCGTACAACGCGGACCAGCTGGGCAGGGCACTGAGAGCCATCATTA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGCGC
```

Restriction Sites: Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_001300927

**Insert Size:** 336 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:**

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:	<a href="#">NM_001300927.1</a>
RefSeq Size:	6862 bp
RefSeq ORF:	336 bp
Locus ID:	54858
UniProt ID:	<a href="#">Q9NXJ5</a>
Cytogenetics:	19p13.11
Protein Families:	Druggable Genome, Protease
MW:	12.4 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]

Transcript Variant: This variant (2) lacks an alternate exon in the coding region, resulting in a frameshift and an early stop codon, compared to variant 1. It encodes isoform 2, which is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.