

Product datasheet for SC327001

PEPD (NM_001166056) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEPD (NM_001166056) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEPD
Synonyms:	PROLIDASE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327001 representing NM_001166056. Blue=Insert sequence Red=Cloning site Green=Tag(s)

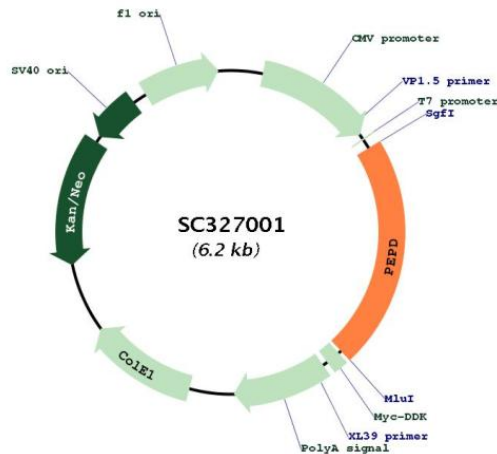
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCGGCCACCGACCCTCGTTTTGGCTGGGGAATGAAACCCTGAAGGTGCCGCTGGCGCTCTTT
GCCTTGAACCGGCAGCGCCTGTGTGAGCGGCTGCGGAAGAACCCTGCTGTGCAGGCCGGCTCCATCGTG
GTCCTGCAGGGCGGGGAGGAGACTCAGCGCTACTGCACCGACACCGGGTCTCTCCGCCAGGAGTCC
TTCTTTCCTGCGGCTTCGGTGTCACTGAGCCAGGCTGCTATGGTGTATCGATGTTGACTGCGGAG
TCGACCCTGTTTGTGCCAGGCTTCTGCCAGCCATGCCACCTGGATGGGAAAGATCCATTCCAAGGAG
CACTTCAAGGAGAAGTATGCCGTGGACGACGTCCAGTACGTAGATGAGATTGCCAGCGTCTGACGTCA
CAGAAGCCCTCTGTCTCTCACTTTGCGTGGCGTCAACACGGACAGCGGAGTGTCTGCAGGGAGGCC
TCCTTTGACGGCATCAGCAAGTTCGAAGTCAACAATACCATTCTTCAACCCAGAGATCGTTGAGTGCCTC
TTGAGACTACTGCTACTCCCGGGGCGGCATGCGCCACAGCTCCTACACCTGCATCTGCGGCAGTGGT
GAGAACTCAGCCGTGCTACACTACGGACACGCCGAGCTCCCAACGACCGAACGATCCAGAATGGGGAT
ATGTGCCTGTTTCGACATGGGCGGTGAGTATTACTGCTTCGCTTCCGACATCACCTGCTCCTTTCCCGCC
AACGGCAAGTTCCTGCAGACCAGAAGCCGCTCTATGAGGCAGTGTGCGGAGCTCCCGTGCCTCATG
GGTGCCATGAAGCCAGGTGTCTGGTGGCCTGACATGCACCGCTGGCTGACCGCATCCACCTGGAGGAG
CTGGCCACATGGGCATCCTGAGCGGCAGCGTGGACCCATGGTCCAGGCTCACCTGGGGCCGTGTTT
ATGCCTACGGGCTTGGCACTTCTGGGCATTGACGTGCACGCTGGGAGGCTACCCAGAGGGCGTG
GAGCGCATCGACGAGCCCGCCTGCGGAGCCTGCGCACTGCACCGCACCTGCAGCCAGGCATGGTGTCTC
ACCGTGGAGCCGGGCATCTACTCATCGACCACCTCCTGGATGAGGCCCTGGCGGACCCGGCCCGCGCC
TCCTTCTTAACCGGAGGTCTGCAGCGCTTTCGCGTTTTGGCGGGTCCGCATCGAGGAGGACGTC
GTGGTACTGACAGCGGCATAGAGCTGCTGACCTGCGTGCCTGCGCACTGTGGAAGAGATTGAAGCATGC
ATGGCAGGCTGTGACAAGCCTTACCCTTCTCTGGCCCAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```



[View online »](#)

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001166056

Insert Size: 1359 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: [NM_001166056.1](#)

RefSeq Size: 1896 bp

RefSeq ORF: 1359 bp

Locus ID: 5184

UniProt ID: [P12955](#)

Cytogenetics: 19q13.11

Protein Families: Druggable Genome, Protease

MW: 49.7 kDa

Gene Summary: This gene encodes a member of the peptidase family. The protein forms a homodimer that hydrolyzes dipeptides or tripeptides with C-terminal proline or hydroxyproline residues. The enzyme serves an important role in the recycling of proline, and may be rate limiting for the production of collagen. Mutations in this gene result in prolidase deficiency, which is characterized by the excretion of large amount of di- and tri-peptides containing proline. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]
Transcript Variant: This variant (2) lacks two alternate in-frame exons in the central coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1.