

Product datasheet for SC119982

PEPD (NM_000285) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEPD (NM_000285) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEPD
Synonyms:	PROLIDASE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000285, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGCCACCGGACCCTCGTTTTGGCTGGGAATGAAACCCTGAAGGTGCCGCTGGCGCTCTTTG
CCTTGAACCGGCAGCGCCTGTGTGAGCGGCTGCGGAAGAACCCTGCTGTGCAGGCCGGCTCCATCGTGGT
CCTGCAGGGCGGGGAGGAGACTCAGCGCTACTGCACCGACACCGGGTCTCTTCCGCCAGGAGTCTTTC
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CCCTGTTGTGCCAGGCTTCTGCCAGCCATGCCACCTGGATGGGAAAGATCCATTCCAAGGAGCACTT
CAAGGAGAAGTATGCCGTGGACGACGTCCAGTACGTAGATGAGATTGCCAGCGTCTGACGTCACAGAAG
CCCTCTGCTCCTCACTTTGCGTGGCGTCAACACGGACAGCGGAGTGTCTGCAGGGAGGCTCCTTTG
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GACGGATATGGAGCTGGAGTCTGCGCTATACCAATAAAAATCTCCAGCGAGGCCACCGTGAGGTAATG
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GCGGCATGCGCCACAGCTCCTACACCTGCATCTGCGGCAGTGGTGAAGTCAAGCCGTGCTACACTACGG
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TATTACTGCTTCGCTCCGACATCACTGCTCCTTTCCCGCAACGGCAAGTTCAGTGCAGACCAGAAGG
CCGTCTATGAGGCAGTGTGCGGAGTCCCGTGGCGTATGGGTGCCATGAAGCCAGGTGTCTGGTGGCC
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CTCCTGGATGAGGCCCTGGCGGACCCGGCCCGCCTCCTTCTTAACCGGAGGTCTGCAGCGCTTTC
GCGGTTTTGGCGGGTCCGCATCGAGGAGGACGTCGTGGTACTGACAGCGGCATAGAGCTGCTGACCTG
CGTGCCCCGCACTGTGGAAGAGATTGAAGCATGCATGGCAGGCTGTGACAAGGCCCTTACCCCTTCTCT
GGCCCAAGTAG

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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000285 unedited ATTTTTCANATTTTGTATACGACTCACTTATAGGGCGGCCGCGATTTCGGCACGAGGGTGA CGCCGGTGCCGGGCGAACTGGCGGCGGCCACCGGACCCTCGTTTTGGCTGGGGAATGAAA CCCTGAAGGTGCCGCTGGCGCTCTTTGCCTTGAACCGGCAGCGCCTGTGTGAGCGGCTGC GGAAGAACCCTGCTGTGCAGGCCGGCTCCATCGTGGTCTGCAGGGCGGGGAGGAGACTC AGCGCTACTGCACCGACACCGGGGTCTCTTCCGCCAGGAGTCCTTCTTCACTGGGCGT TCGGTGCTACTGAGCCAGGCTGCTATGGTGTTCATCGATGTTGACACTGGGAAGTCGACCC TGTTTGTGCCAGGCTTCTGCCAGCCATGCCACCTGGATGGAAAGATCCATTCCAAGG AGCACTTCAAGGAGAAGTATGCCGTGGACGACGTCAGTACGTAGATGAGATTGCCAGCG TCCTGACGTCACAGAAGCCCTCTGTCTCTCACTTTGCGTGGCGTCAACACGGACAGCG GCAGTGTCTGCAGGGAGGCTCCTTTGACGGCATCAGCAAGTTCGAAGTCAACAATACCA TTCTTACCCAGAGATCGTTGAGTGCCGAGTGTTAAGACGGATATGGAGCTGGAGGTTT TGCGCTATACCAATAAAATCTCCAGCGAGGCCACCGTGAGGTAATGAAGGCTGTAAAAG TGGGAATGAAAGAATATGAGTTGAAAAGCCTCTTCGAGCACTACTGCTACTCCNGNGCG GCATGCGCCACAGCTCCTACACCTGCATCTGCGGCAGTGGTGGAGACNTCAGCCGTGCTAC ACTACGGACACGCCGAGCTNCCAACGACCGAACGATTAGAATGGGGATATGTGCCCTG TTCGACATG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000285 unedited TTGGACCGCGCCGATTCTANATCGAGTTTTTTTTTTTTTTTTTTTACCATTTTAGGAAA CCTTTTATTGCAAATGCCATTCTGCATATTGATTTTTGACAGAAAGTATCAGAAATGCTT CTTTCTGGGAAAAGGAATATAAATGACAGCAAGACACATTTTAGTTGCTACTAAAGAAC AGCATTATTTTCAATCATTTTAAGTCGCTCATTTAATAAGCAAGGTATAAAACAGATTAA AGGTGGGAGCCTGCAAAAGGGTAATTAATAAAGTGTTCCTCCCGGAAACAGCACTGT TTGGTCTGATCAATGCCGAAGCTGGGATCTGATTCTGGGTGCCGTCTCTCGCTACTGGA GTGCTGACCAGCAGGCTGCCATCACGAAAAGAGGTTGCAAGGCCAGGCCCCAGGTGCG CTGGGATTTCTGGCTGGCTCTACTTGGGGCCAGAGAAGGGGGTAAAGGCCTTGTCACAGC CTGCCATGCATGCTTCAATCTCTCCACAGTGCGGGGCACGCAGGTGACAGCTCTATGC CGCTGTGAGTCACCACGACGTCCTCCTCGATGCGGACCCCGCCAAAACCGGAAAGCGCT GCAGGACCTCGCGTTAAGGAAGGAGGCGCGGGCCGGTCCGCCAGGGCCTCATCCAGGA GGTGGTCGATGAAGTAGATGCCCGGCTCCACAGTGAGCACCATGCCTGGCTGCANGTGC GTGCANTGCGCANGCTCCGACGGCCCGGCTCGTCGATGCGCTCCACGCCCTCTGGGTAGC CTCCCCCTCATGCCGTAATGCCAGGAAGTGGCCAACCCGTGAAGCATAAACCCGCGCCC AGGGAACCCTGACCCTGGCGTTACCCCTGCCTCAAGATGGCCATGTGGGCCAACTCCTTC AAGGGGAGCGGTAANCCAGCCGGCTGTAAGGCCCCCAACCCCTGGCTTTTGCCCCCTGA CGGCCGGAGCTCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000285
Insert Size:	1910 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: [NM_000285.1](#), [NP_000276.1](#)

RefSeq Size: 1888 bp

RefSeq ORF: 1482 bp

Locus ID: 5184

UniProt ID: [P12955](#)

Cytogenetics: 19q13.11

Domains: Peptidase_M24, AMP_N

Protein Families: Druggable Genome, Protease

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 (1) represents the longest transcript and encodes the longest isoform (1).