

Product datasheet for **SC126231**

PEPD (BC028295) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEPD (BC028295) Human Untagged Clone
Tag:	Tag Free
Symbol:	PEPD
Synonyms:	imidodipeptidase; MGC10905; peptidase D; PROLIDASE; proline dipeptidase
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >OriGene sequence for BC028295 edited
 CGAACATGGCGCGGCCACCGGACCCTCGTTTTGGCTGGGGAATGAAACCCTGAAGGTGC
 CGCTGGCGCTCTTTGCCTTGAACCGGCAGCGCCTGTGTGAGCGGCTGCGGAAGAACCCTG
 CTGTGCAGGCCGGCTCCATCGTGGTCTGCAGGGCGGGGAGGAGACTCAGCGCTACTGCA
 CCGACACCGGGGTCTCTTCCGCCAGGAGTCTTCTTTCACTGGGCGTTCGGTGTCACTG
 AGCCAGGCTGTATGGTGTATCGATGTTGACACTGGGAAGTCGACCCTGTTTGTGCCCA
 GGCTTCCAGCCATGCCACCTGGATGGGAAGATCCATTCCAAGGAGCACTTCAAGG
 AGAAGTATGCCGTGGACGACGTCCAGTACGTAGATGAGATTGCCAGCGTCTGACGTAC
 AGAAGCCCTCTGTCTCCTCACTTTGCGTGGCGTCAACACGACAGCGGAGTGTCTGCA
 GGGAGGCCCTCTTTGACGGCATCAGCAAGTTCAAGTCAACAATACCATTCTTACCCAG
 AGATCGTTGAGTGCCGAGTGTAAAGACGGATATGGAGCTGGAGTTCTGCGCTATACCA
 ATAAAATCTCCAGCGAGGCCACCGTGAGTAATGAAGGCTGAAAAGTGGGAATGAAAG
 AATATGAGTTGAAAAGCCTCTTCGAGCACTACTGCTACTCCCGGGCGGCATGCGCCACA
 GCTCTACACCTGCATCTGCGGAGTGGTGAAGTCAAGCGTGTACACTACGGACACG
 CCGGAGCTCCCAACGACCGAACGATCCAGAATGGGGATATGTGCCTGTTTGCATGGGCG
 GTGAGTATTACTGCTTCCGCTTCCGACATCACTGCTCCTTTCCCGCCAACGGCAAGTTCA
 CTGCAGACCAGAAGGCCGTCTATGAGGCAGTGTGCGGAGCTCCCGTGCCGTATGGGTG
 CCATGAAGCCAGGTGTCTGGTGGCTGACATGCACCGCCTGGCTGACCGCATCCACCTGG
 AGGAGCTGGCCACATGGGCATCCTGAGCGGCAGCGTGGACGCCATGGTCCAGGCTACCC
 TGGGGGCGGTGTTATGCCTCACGGGCTTGGCCACTTCTGGGCATTGACGTGCACGACG
 TGGGAGGCTACCCAGAGGGCGTGGAGCGCATCGACGAGCCCGCCTGCGGAGCCTGCGCA
 CTGCACGGCACCTGCAGCCAGGCATGGTGTCTACCGTGGAGCCGGGCATCTACTTATCG
 ACCACTCCTGGATGAGGCCCTGGCGGACCCGGCCCGCCTCCTTCTTAAACCGCGAGG
 TCCTGCAGCGCTTTCGCGGTTTTGGCGGGTCCGCATCGAGGAGGACGTGCTGGTACTG
 ACAGCGGCATAGAGCTGTGACCTGCGTGCCCGCACTGTGGAAGAGATTGAAGCATGCA
 TGGCAGGCTGTGACAAGGCCTTTACCCCTTCTCTGGCCCAAGTAGAGCCAGCCAGAAA
 TCCCAGCGCACCTGGGGGCTGGCCTTGAACCTCTTCCGTGATGGGCAGCCTGCTGGT
 CAGCACTCCAGTAGCGAGAGACGGCACCCAGAATCAGATCCCAGCTTCGGCATTGATCA
 GACCAAACAGTGTGTTTCCCGGGGAGGAAACACTTTTTTAATTACCCTTTTGCAGGCTC
 CCACCTTAATCTGTTTCATACCTTGCTTATTAATGAGCGACTTAAAATGATTGAAAAT
 AATGCTGTCTTTAGTAGCAACTAAAATGTGCTTGTCTGTCATTTATATTCCTTTCCCA
 GGAAGAAGCATTCTGATACTTTACTTTCTGTCAAAAATCAATATGCAGAATGGCATT
 GCAATAAAGGTTTCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC028295 unedited
 GAGTTTGAATTTGTATACGACTTATATAGGCGGCCGNAATTCNATCTGGTACCGGTCC
 GGAATTCGCGGATATCGTGCACCCACGCGTCCGCGAACATGGCGGGCCACCGGACCC
 TCGTTTTGGCTGGGGAATGAAACCCTGAAGGTGCCGTGGCGCTCTTTCCTTGAACCGG
 CAGCGCTGTGTGAGCGGCTGCGGAAGAACCCTGCTGTGACAGCCGGCTCCATCGTGGTC
 CTGCAGGGCGGGGAGGAGACTCAGCGTACTGCACCGACACCGGGTCCCTTCCGCCAG
 GAGTCCTTCTTTCACTGGGCGTTCCGGTCACTGAGCCAGGCTGCTATGGTGTATCGAT
 GTTGACACTGGGAAGTCGACCCTGTTTGTGCCAGGCTTCTGCCAGCCATGCCACCTGG
 ATGGGAAAGATCCATTCCAAGGAGCACTTCAAGGAGAAGTATGCCGTGGACGACGTCCAG
 TACGTAGATGAGATTGCCAGCGTCTGACGTCACAGAAGCCCTCTGTCCTCCTCACTTTG
 CGTGGCGTCAACACGGACAGCGCAGTGTCTGCAGGGAGGCTCCTTTGACGGCATCAGC
 AAGTTCGAAGTCAACAATACCATTCTTCAACCAGAGATCGTTGAGTGCCGAGTGTAAAG
 ACGGATATGGAGCTGGAGTTCTGCGCTATACCAATAAAATCTCCAGCGAGGCCACCGT
 GAGGTAATGAAGGCTGTANAAGTGGGAATGAAAGATATGAGTTGGNAAGCCTCTTCGAGC
 ACTACTGCTACTCCCGGGCGGCATGCGCCACAGCTCTACACCTGCATCTGCGGAGTGG
 TGAGGACTCAGCCGTGCTACACTACCGACACGCGGGACTNCCNACGACCA

Restriction Sites: NotI-NotI

ACCN:	BC028295
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:	<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:	BC028295.1 , AAH28295.1
RefSeq Size:	1908 bp
Locus ID:	5184
Cytogenetics:	19q13.11
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]