

Product datasheet for **RG228366**

PEPD (NM_001166056) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PEPD (NM_001166056) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PEPD
Synonyms:	PROLIDASE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG228366 representing NM_001166056
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGGCCACCGACCCTCGTTTTGGCTGGGAATGAAACCCTGAAGGTGCCGCTGGCCTCTTTG
 CCTTGAACCGGCAGCGCCTGTGTGAGCGCTGCGGAAGAACCCTGCTGTGCAAGCCGGCTCCATCGTGGT
 CCTGCAGGGCGGGAGGAGACTCAGCGCTACTGCACCGACACCGGGTCTCTTCCGCCAGGAGTCTTTC
 TTTCACTGGGCGTTCCGGTGTCACTGAGCCAGGCTGCTATGGTGTGATCGATGTTGACACTGGGAAGTCGA
 CCCTGTTTGTGCCAGGCTTCTGCCAGCCATGCCACCTGGATGGGAAAGATCCATTCCAAGGAGCACTT
 CAAGGAGAAGTATGCCGTGGACGACGTCCAGTACGTAGATGAGATTGCCAGCGTCTGACGTACAGAAAG
 CCCTCTGTCTCTCACTTTGCGTGGCGTCAACACGGACAGCGGAGTGTCTGCAGGGAGGCTCCTTTG
 ACGGCATCAGCAAGTTCGAAGTCAACAATACCATTCTTCAACCAGAGATCGTTGAGTGCCTCTTCGAGCA
 CTACTGCTACTCCCGGGCGGCATGCGCCACAGCTCCTACACCTGCATCTGCGGCAGTGGTGAAGTCA
 GCCGTGTACTACGACCGCCGAGCTCCCAACGACCGAACGATCCAGAATGGGGATATGTGCCTGT
 TCGACATGGGCGGTGAGTATTACTGCTTCCGCTTCCGACATCACCTGCTCCTTTCCCGCAACGGCAAGTT
 CACTGCAGACCAGAAGGCCGTCTATGAGGCAGTGTGCGGAGCTCCCGTCCCGTCCATGGGTGCCATGAAG
 CCAGGTGTCTGGTGGCCTGACATGCACCGCCTGGCTGACCGCATCCACCTGGAGGAGTGGCCACATGG
 GCATCTGAGCGGCAGCGTGGACGCCATGGTCCAGGCTCACCTGGGGCCGTGTTTATGCCTCACGGGT
 TGGCCACTTCTGGGCATTGACGTGCACGACGTGGGAGGCTACCCAGAGGGCGTGGAGCGCATCGACGAG
 CCCGGCTGCGGAGCCTGCGCACTGCACGGCACCTGCAGCCAGGCATGGTGTCAACGTCGGAGCCGGCA
 TCTACTTCATCGACCACCTCCTGGATGAGGCCCTGGCGGACCCCGCCCGCTCCTTCTAACCGCGA
 GGTCTGCAGCGCTTTCGCGGTTTTGGCGGGTCCGCATCGAGGAGGACGTCGTGGTACTGACAGCGGC
 ATAGAGCTGCTGACCTGCGTGCCCGCACTGTGGAAGAGATTGAAGCATGCATGGCAGGCTGTGACAAGG
 CCTTTACCCCTTCTCTGCCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228366 representing NM_001166056
 Red=Cloning site Green=Tags(s)

MAAATGPSFWLGNELKVLPLALFALNRQRLCERLRKNPAVQAGSIVVLQGG EETQRYCTDTGVLFRQESF
 FHWAFGVTEPGCYGVIDVDTGKSTLFPRLPASHATWVGKIHSKEHFKEKYAVDDVQYVDEIASVLSQK
 PSVLLTLRGVNTDSGSVCREASFDGISKFEVNNTILHPEIVECLFEHYCYSRGGMRHSSYTCICGSGENS
 AVLHYGHAGAPNDRTIQNGDMCLFDMGGEYCFASDITCSFPANGKFTADQKAVYEAVLRSSRAVMGAMK
 PGVWVWPMHRLADRIHLEELAHMGILSGSV DAMVQAHLGAVFMPHGLGHFLGIDVHVDVGGYPEGVERIDE
 PGLRSLRTARHLQPGMVLTVEPGIYFIDHLLDEALADPARASFLNREVLQRFGRFGGVRIEEDVVVTDSSG
 IELLTCVPRTVEEIEACMAGCDKAFTPFSGPK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001166056

ORF Size: 1356 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:

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_001166056.2](#)

RefSeq Size: 1896 bp

RefSeq ORF: 1359 bp

Locus ID: 5184

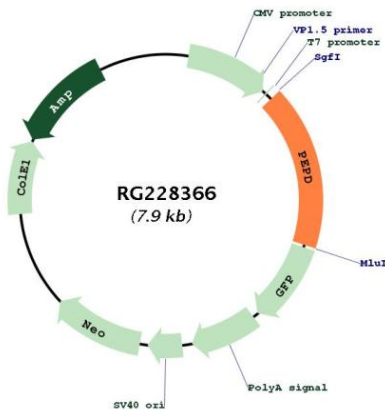
UniProt ID: [P12955](#)

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]

Product images:



Circular map for RG228366