

Product datasheet for **MG207914**

Pepd (NM_008820) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pepd (NM_008820) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pepd
Synonyms:	dal; Pep-4; Pep4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207914 representing NM_008820
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCCACTGTGCGCCCTTCTTCTCCTGGGAATGAGACCCTGAAGGTGCCACTGGCACTATTCCG
 CCCTGAACAGGCAGCGCCTGTGTGAGAGGCTGAGGAAGAATGGAGCTGTACAGGCCCGCTCAGCTGTCGT
 GTTGACAGGGCGGGAAGAGATGCAACGGTACTGCACCGATACCTCCATCATCTTCCGCCAGGAGTCTTCC
 TTTCACTGGGCCCTTCGGTGTGTCGAGTCAAGGCTGCTATGGTGTGTCATCGATGTGGACACTGGAAAATCAA
 CCCTGTTTGTGCCAGGCTTCTGATAGCTACGCCACCTGGATGGGAAAGATCCATTCCAAGGAGTATTT
 CAAGGAGAAGTACGCTGTGGATGATGTCCAGTACACGGATGAGATTGCCAGTGTCTGACCTCACGGAAC
 CCCTCTGTCTCCTCACTTTGCGCGGTGTCAACACAGACAGTGGCAGTGTCTGCAGGGAGGCCCTCTTCCG
 AGGGCATTAGCAAGTTCAATGTCAACAACACGATTCTTCAACCCAGAGATCGTGAATGCCGAGTGTCAA
 GACAGACATGGAAGTACAGGTTTTCGCGTACACAAATCGGATCTCCAGCGAGGCCACCGTGGGTAATG
 AAGGCTGTAAAAGTGGGGATGAAGGAATACGAGATGGAAAGCCTGTTCCAGCATTATTGTTACTCTAGGG
 GCGGCATGCGCCACACCTTTACACCTGTATCTGCTGTAGCGGTGAGAACGCGGCCGTGCTGCACTATGG
 CCATGCTGGAGCCCCAATGACCGGACGATCAAGGATGGAGATATTTGCCTGTTGACATGGGTGGCGAG
 TACTACTGCTTTGCTTCTGACATCACCTGCTCCTTCCCAGCCAACGGCAAGTTACAGAGGACCAGAAGG
 CCATCTACGAAGCAGTGTCTCAGGAGCTGCAGAAGTGTGATGAGCACTATGAAGCCAGGGGTCTGGTGGCC
 TGATATGCATCGGCTGGCTGACCGTATCCACCTGGAGAACTGGCACGCATTGGCCTCTGAGTGGCAGT
 GTGGATGCCATGCTCCAGTCCACCTGGGAGCAGTATTCATGCCACATGGACTTGGCCACTTTCTGGGCC
 TAGATGTGCACGACGTGGGAGGCTACCTGAGGGTGTAGAGCGCATCGATGAACCTGGCCATGCAAGCCT
 GCGTACGGCAAGGCACCTGGAGCCGGGCATGGTGTGCTGACTGTGGAGCCAGGCATCTACTTATTGACCAC
 CTCTTGGACCAGGCCCTGGCAGACCCGGCCCAAGCCTGCTTCTTTAACCAAGAGGTCTGACAGCGTTCC
 GCAACTTCGGTGGGGTGCAGGATCGAGGAAGATGTTGTCGTGACTGACAGCGGCATGGAGCTGCTGACATG
 TGTACCCCGACTGTGGAGGAAATCGAAGCGTGCATGGCAGGCTGCGACAAGGCATCTGTGCCCTTCTCT
 GGCCAAAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207914 representing NM_008820
 Red=Cloning site Green=Tags(s)
 MASTVRPSFSLGNETLKVPLALFALNRQRLCERLRKNGAVQAASAVVLQGGEMQRYCTDTSIIIFRQESF
 FHWAFVGVESGCVGVIDVDTGKSTLFPVRLPDSYATWMGKIHSKEYFKEKYAVDDVQYTDEIASVLTSRN
 PSVLLTLRGVNTDSGSVCREASFEGISKFNVNNTILHPEIVECRVFKTDMELVLRNTNISSEAHREVM
 KAVKVGMMKEYEMESLFQHYCYSRGGMRHTSYTCICCSGENAAVLHYGHAGAPNDRTIKDGDICLFDMGGE
 YYCFASDITCSFPANGKFTEDQKAIYEAVLRSCRVMSTMKPGVWVWPMHRLADRIHLEELARIGLLSGS
 VDAMLQVHLGAVFMPHGLGHFLGLDVHDVGGYPEGVERIDEPGLRSLRTARHLEPGMVLVTEPGIYFIDH
 LLDQALADPAQACFFNQEVLRFRNFGGVRIEEDVVVTDSGMELLTCVPRTVEEIEACMAGCDKASVPPFS
 GQK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoR I *BamH I* *Kpn I* **RBS** *Sgf I* *Asc I*

CTATAGGGCGGGCCGGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

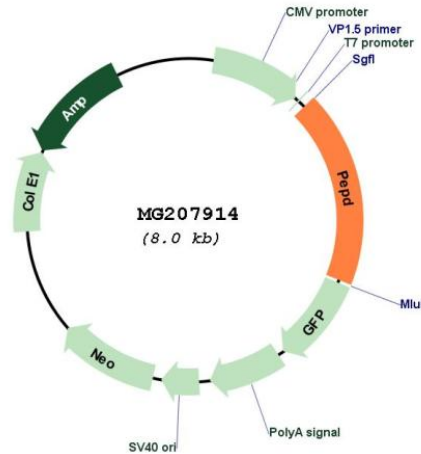
GFP Tag

Hind III *Nhe I* *Rsr II* *Mlu I* *Not I* *Xho I* **ATG GAG AGC GAC** --- --- ---
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -

Pme I *Fse I*

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - - E E R V Stop

Plasmid Map:



ACCN: NM_008820

ORF Size: 1479 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_008820.2](#), [NP_032846.2](#)

RefSeq Size: 1876 bp

RefSeq ORF: 1482 bp

Locus ID: 18624

UniProt ID: [Q11136](#)

Cytogenetics: 7 20.7 cM

Gene Summary: Splits dipeptides with a prolyl or hydroxyprolyl residue in the C-terminal position. Plays an important role in collagen metabolism because of the high level of iminoacids in collagen. [UniProtKB/Swiss-Prot Function]