

Product datasheet for **MR207914**

Pepd (NM_008820) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pepd (NM_008820) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pepd
Synonyms:	dal; Pep-4; Pep4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR207914 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTCCACTGTGCGCCCTTCTTCTCCTGGGAATGAGACCCTGAAGGTGCCACTGGCACTATTCCG
 CCCTGAACAGGCAGCGCCTGTGTGAGAGGCTGAGGAAGAATGGAGCTGTACAGGCCGCCCTCAGCTGTCGT
 GTTGACAGGGCGGGAAGAGATGCAACGGTACTGCACCGATACCTCCATCATCTTCCGCCAGGAGTCTTCC
 TTTCACTGGGCCCTTCGGTGTGTCGAGTCAAGGCTGCTATGGTGTTCATCGATGTGGACACTGGAAAATCAA
 CCCTGTTTGTGCCAGGCTTCTGATAGCTACGCCACCTGGATGGGAAAGATCCATTCCAAGGAGTATTT
 CAAGGAGAAGTACGCTGTGGATGATGTCCAGTACACGGATGAGATTGCCAGTGTCTGACCTCACGGAAC
 CCCTCTGTCTCCTCACTTTGCGCGGTGTCAACACAGACAGTGGCAGTGTCTGCAGGGAGGCCCTCTTCCG
 AGGGCATTAGCAAGTTCAATGTCAACAACAGATTCTTCAACCCAGAGATCGTGAATGCCGAGTGTCAA
 GACAGACATGGAAGTACAGGTTTTCGCGTACACAAATCGGATCTCCAGCGAGGCCACCGTGAGGTAATG
 AAGGCTGTAAAAGTGGGGATGAAGGAATACGAGATGGAAAGCCTGTTCCAGCATTATTGTTACTCTAGGG
 GCGGCATGCGCCACACCTTTACACCTGTATCTGCTGTAGCGGTGAGAACGCGGCCGTGCTGCACTATGG
 CCATGCTGGAGCCCCAATGACCGGACGATCAAGGATGGAGATATTTGCCTGTTTCGACATGGGTGGCGAG
 TACTACTGCTTTGCTTCTGACATCACCTGCTCCTTCCCAGCCAACGGCAAGTTTACAGAGGACCAGAAGG
 CCATCTACGAAGCAGTGTCTCAGGAGCTGCAGAAGTGTATGAGCACTATGAAGCCAGGGGTCTGGTGGCC
 TGATATGCATCGGCTGGCTGACCGTATCCACCTGGAGGAACTGGCACGCATTGGCCTCTGAGTGGCAGT
 GTGGATGCCATGCTCCAGTCCACCTGGGAGCAGTATTCATGCCACATGGACTTGGCCACTTCTGGGCC
 TAGATGTGCACGACGTGGGAGGCTACCTGAGGGTGTAGAGCGCATCGATGAACCTGGCCTGCGAAGCCT
 CGGTACGGCAAGGCACCTGGAGCCGGGCATGGTGTGCTGACTGTGGAGCCAGGCATCTACTTATTGACCAC
 CTCTTGGACCAGGCCCTGGCAGACCCGGCCCAAGCCTGCTTCTTTAACCAAGAGGTCTGACAGCGCTTCC
 GCAACTTCGGTGGGGTGCAGGATCGAGGAAGATGTTGTCGTGACTGACAGCGGCATGGAGCTGCTGACATG
 TGTACCCCGACTGTGGAGGAAATCGAAGCGTGCATGGCAGGCTGCGACAAGGCATCTGTGCCCTTCTCT
 GGCCAAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207914 protein sequence
 Red=Cloning site Green=Tags(s)

MASTVRPSFSLGNETLKVPLALFALNRQRLCERLRKNGAVQAASAVVLQGG EEMQRYCTDTSIIFRQESF
 FHWFAGVVEGSGYGVIDVDTGKSTLFPRLPDSYATWMGKIHSKEYFKEKYAVDDVQYTDEIASVLT SRN
 PSVLLTLRGVNTDSGVS CREASFEGISKFNVNNTILHPEIVECRVFKTDM ELEVLRNTNRISS EAHREVM
 KAVKVGMEKEYEMESLFQHYCYSRGGMRHTSYTCICCSGENAAVLHYGHAGAPNDRTIKDGDICLFD MGGE
 YYCFASDITCSFPANGKFTEDQKAIYEAVLRSCRTVMSTMKPGVWVWPMHRLADRIHLEELARIGLLSGS
 VDAMLQVHLGAVFMPHGLGHFLGLDVHDVGGYPEGVERIDEPLRSLRTARHLEPGMVL TVEPGIYFIDH
 LLDQALADPAQACFFNQEVLRFRNFGGVRI EEDVVVTDSGMELLTCVPRTVEEIEACMAGCDKASVPFS
 GQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

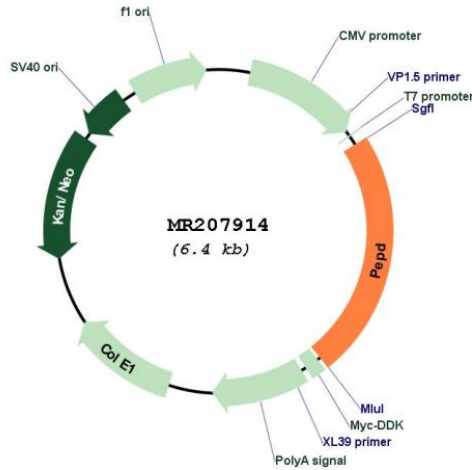
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_008820

ORF Size: 1482 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: 1856 bp

RefSeq ORF: 1482 bp

Locus ID: 18624

UniProt ID: [Q11136](#)

Cytogenetics: 7 20.7 cM

MW: 55 kDa

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]