

## Product datasheet for **MR206443**

### Dpep1 (NM\_007876) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dpep1 (NM\_007876) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dpep1  
**Synonyms:** AI327012; MBD  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR206443 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGATCATCTGGTGGTTCTGGTCTCTGCTGGCCATCTGTGCTTCGGACTCATTCCGGGACCAGGCAG  
TGGCTATCATGAGAACCACACCGGTCATCGACGGGCACAACGACTTGCCTTGGCAACTGCTAAATTTGTT  
CAACAACCAGCTGCTGAGACCAGATGCTGACTTGAACAAGCTAGCCAAACACACACCAACATCCCCAAG  
CTGAAGGCTGGCTTTGTGGAGGCCAGTCTGGTCCGCATACATGCCTTGTGACACCCAAAACAAAGATG  
CCGTGAAGAGAATACTGGAACAGATGGATGTGATACACCGCATGTGCCAGCTCTATCCTGAGACCTTCAT  
GTGTGTACCAATAGTTCAGACATCCTACAGGCTTCCGGAGGGGAAAGTGGCCAGTCTGATCGGCCGTG  
GAAGGCGGCCACTTAATTGACAGCAGCCTTGGTGTCTGCGGACACTCTACCATCTGGGCATGCGGTATC  
TGACCCTCACCCACAATTGCAACACGCCCTGGGCCGACAACCTGGCTTGTGGACAGAGGAGATGATGAGGC  
TGAGAGCCATGGACTGTCACCCTTTGGGAAGCGCCTGCTGAACGAGATGACCCGCTTGGGTGTCATGATT  
GACCTGTCCCACGTGCTGTGGCCACATGAAGGACGCTTTCAGATCTCCAGGGCACCAGTCATCTTCA  
GCCACTCTGCTACAGCCTGTGTCCACACAGGCGGAATGTGCCCGATGACGACTGCAGCTGGTGAA  
GAACACAAGTAGTCTGGTGTGGTGAACCTCTTCAGCAACTTTGTGCTTTCAGACAGCGCCACCTTG  
CCCCAAGTGGCTGACCACCTGGACCACATCAAGAAGGTGGCAGGCGCTGGGGCTGTGGCCTTGGAGGAG  
ATTATGATGGTGTACTATGCTTCTGTGGGACTGGAGGATGTTTCTAAGTACCCAGACCTGATAGCTGA  
GCTTCTCAGGAGAACTGGACAGAGACCGAGGTGAGAGTTTGTAGCTGACAACCTGATTCCGGTCTTC  
TCTGAAGTGGAACTGGTAAGCAGTAACATGCAGTCTCCTGAGGAAGTCCCTATCACCCCTGAAAGAGCTGG  
ACGGCTCTGCAGGACATACTATGGCTACTCTCAAGCTCACAGCATCCACTTGCAGACAGGAGCCCTGGT  
GGCCTCTGGCTTCCCTGCTCTCCGTCTCCATCTTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206443 protein sequence  
Red=Cloning site Green=Tags(s)

MVLIWWFWSLLAICASDSFRDQAVAIMRTTPVIDGHNDLPWQLLNLFNNQLLRPDADLNKLAQHTHTNIPK  
 LKAGFVGGQFWSAYMPCDTQNKDAVKRILEQMDVIHRMCQLYPETFMVCVTNSSDILQAFRRGKVASLIGV  
 EGGHLIDSSLGVLRTL YHLGMRYLTLTHNCNTPWADNWLVDGRDDEAESHLSPFGKRLLNEMTRLGVMI  
 DLSHVSVATMKDALQISRAPVIFSHSSAYS LCPHRRNVPDDVLQLVKNTSSLVMVNFSSNFVSCSDSATL  
 PQVADHLDHKKVAGAGAVLGGDYDGVMTLPVGLLEDVSKYPDLIAELLRRNWTETEVRGLLADNLRV  
 SEVELVSSNMQSPEEVPITLKELDGSCRTYYGYSQAHSIHLQTGALVASLASLLFRLHLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_007876

**ORF Size:** 1230 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\\_007876.1](#), [NP\\_031902.1](#)

**RefSeq Size:** 2249 bp

**RefSeq ORF:** 1233 bp

**Locus ID:** 13479

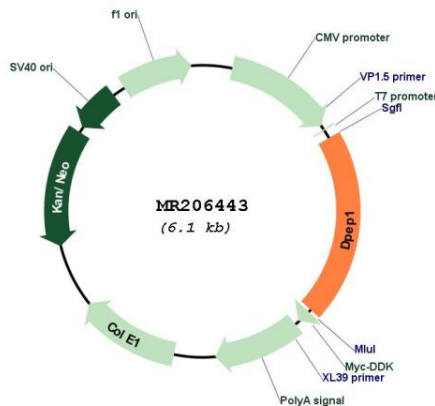
**UniProt ID:** [P31428](#)

**Cytogenetics:** 8 72.08 cM

**MW:** 45.7 kDa

**Gene Summary:** Hydrolyzes a wide range of dipeptides. Implicated in the renal metabolism of glutathione and its conjugates. Converts leukotriene D4 to leukotriene E4; it may play an important role in the regulation of leukotriene activity.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206443