

Product datasheet for MR229643

Dpep2 (NM_001301205) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Dpep2 (NM_001301205) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Dpep2
 Synonyms: F630103D06Rik; MBD-2
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR229643 representing NM_001301205
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCTTGTCTGAGACAATTTACCAGAATGGACTACAAGATGCTAACCTGAGAACTTCACCCATG
 GCCAGACCAGCCTGGATAGGCTTAAAGATGGCTTGGTGGGAGCCAGTTCTGGTCTGCTTACGTACCATG
 CCAGACGCAGGACCGGGATGCCCTGCGTCTCACTCTGGAGCAGATAGACCTCATTGCGAGAATATGTGCC
 TCTTATTCTGAGCTGGAACCTGTGACCTCAGTTAAAGCTCTGAACAGCACCCAGAAATTGGCTTGCCTCA
 TTGGTGTGGAAGGTGGCCATTCCTAGACAACAGCCTCGCTGTGCTTCGAAGTTTCTACCTGCTGGGGT
 GCGCTACCTGACGCTCACACACACCTGCAACACACCTGGGCAGAGACCTCATCAAGGGTGTCCACGCA
 TTCTACAGCAGTGTCACTGGACTGACCAGCTTTGGTGAGAAGGTGGTGGCAGAAATGAATCGCTTAGGTA
 TGATGGTTGATCTGTCCCACGTCTCGGATGCTGCAGCCAGGCGGGCCTTGGAAAGTATCCCAAGCCCTGT
 GATTTTCTCCCACTCCGCTGCCAGGGCTGTGTGCCAAATGCTCGGAATCTTCTGATGACCTCCTGCAG
 CTTCTGAAGAAGAACGGTGGCATCGTGATGGTACCTTCCGTAGGAGTGTACCGTGCACCCCTTAG
 CCAATGTATCCACTGTGGCAGATCACTTTGACCACATCAGGTCAGTCATCGGATCCGAGTTCATCGGAAT
 TGGCGGAGATTATGATGGTACCAAACAGTCCCTCAGGGCCTGGAGGATGTGCTACATACCCAGTGCTC
 ATAGAGGAGTTGCTGAGACGAGGCTGGAATGAACAGGAACTCCAAGGCATCCTTCGAGGAACTGCTTC
 GGGTCTTCCGACAAGTGGAGCAGGTCCGAGACAAAAGCAAATGGCAAAGTCCCCTGGAAGACATGATCCC
 AGAGGAGCAGCTGGACAGTGCTTCCCACTCAGCCCTGCGACCTCAGAAACAGCATCCAGAAAAGAACCAA
 CCGGAGACTCCAGAATATCATATACTCAAGTTCTCACACTCGAAATCCTCTCCCACATTGTCCCAAGCC
 TCGCCATTGTTGCGACCTTATTAGGCCTTATTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229643 representing NM_001301205
 Red=Cloning site Green=Tags(s)

MPLVLRQFYQNGLQDANLRNFTHGQTSLDRLKDGLVGAQFWSAYVPCQTQDRDALRLTLEQIDLIRRICASYSLELVTSVKALNSTQKLACLIGVEGGHSLDNSLAVLRSFYLLGVRYLTLTHTCNTPWAETSSKGVHAFYSSVTGLTSFGEKVVAEMNRLGMMVDLSHVSDAAARRALEVSQAPVIFSHSAARAVCPNARNLPDDLQLLKKNGGIVMVTFSVGVLPNPLANVSTVADHFDHIRSVIGSEFIGIGGDYDGTKQFPQGLQEDVSTYPVLEIELLRRGWNEQELQGILRGNLLRVFRQVEQVRDKSKWQSPLEDMIPEEQQLDSACHSALRPQKQHPKQNPETPEYHILKFSHKSPPHIVPSLAIVATLLGLIV

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_001301205

ORF Size: 1155 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_001301205.1](#), [NP_001288134.1](#)

RefSeq Size: 1406 bp

RefSeq ORF: 1158 bp

Locus ID: 319446

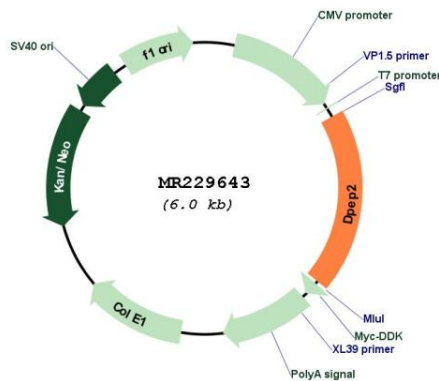
UniProt ID: [Q8C255](#)

Cytogenetics: 8 D3

MW: 43.1 kDa

Gene Summary: Probable metalloprotease which hydrolyzes leukotriene D4 (LTD4) into leukotriene E4 (LTE4).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229643