

Product datasheet for RC225645

DPEP1 (NM_001128141) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPEP1 (NM_001128141) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPEP1
Synonyms:	MBD1; MDP; RDP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225645 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGAGCGGATGGTGGCTGTGGCCCTTGTGGCCGTCTGCACTGCAGACTTCTTTGGGACGAGGCAG
AGAGGATCATGAGGGACTCCCCTGTCATTGATGGGCACAATGACCTCCCCTGGCAGCTGCTGGATATGTT
CAACAACCGGCTGCAGGACGAGAGGGCCAACCTGACCACCTTGGCCGGCACACACCAACATCCCCAAG
CTGAGGGCCGGCTTTGTGGGAGGCCAGTCTGGTCCGTGTACACGCCCTGCGACACCCAGAACAAGACG
CCGTGCGGAGGACGCTGGAGCAGATGGACGTGGTCCACCGCATGTCCGGATGTACCCGGAGACCTTCT
GTATGTACACAGCAGTGCAGGCATTGCGCAGGCCCTCCGGGAAGGGAAGGTGGCCAGCCTGATCGGCGTG
GAGGGCGGCCACTCCATTGACAGCAGTTTGGGCGTCTGCGGGCACTCTATCAGCTGGGCATGCGGTACC
TGACCCTCACCCACAGCTGCAACACGCCCTGGGCTGACAACCTGGCTGGTGGACACGGGAGACAGCGAGCC
CCAGAGCCAAGGCTTGTACCCTTTGGGACGCGTGGTGAAGGAGCTGAACCGTCTGGGGTCTCATC
GACTTGGCTCACGTGTCTGTGGCCACATGAAGGCCACCTGCAGCTGTCCAGAGCCCCGGTTCATCTCA
GCCACTCTCGGCCTACAGCGTGTGCGCAAGCCGGCGCAACGTGCCTGACGACGTCTGAGGCTGGTGAA
ACAGACGACAGCCTGGTGTGTTGAACCTTCTACAACAATTACATTTCTGCACCAACAAGGCCAACCTG
TCCCAAGTGGCCGACCATCTGGATCACATCAAGGAGGTGGCAGGAGCCAGAGCCGTGGGTTTTGGTGGGG
ACTTTGATGGTGTTCGAAGGGTCCCTGAGGGGCTGGAGGACGTCTCCAAGTATCCAGACCTGATCGCTGA
GCTGCTCAGGAGAACTGGACGGAGGCGGAGGTCAAGGGCGCACTGGCTGACAACCTGCTGAGGGTCTTC
GAGGCTGTGGAACAGGCCAGCAACCTCACACAGGCTCCCGAGGAGGAGCCATCCCGCTGGACAGCTGG
GTGGCTCTGCAGGACCCATTACGGTACTCCTCTGGGGCTTCCAGCCTCCATCGCCACTGGGGGCTCT
GCTGGCCTCCCTCGTCCCCTGGTCTCTGTCTCTCTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225645 protein sequence
Red=Cloning site Green=Tags(s)

MWSGWLWPLVAVCTADFFRDEAERIMRSPVIDGHNDLPWQLLDMFNNRLQDERANLTTLAGTHTNIPK
 LRAGFVGGQFWSVYTPCDTQNKDAVRRRTLEQMDVVHRMCRMYPETFLYVTSSAGIRQAFREGKVASLIGV
 EGGHSIDSSLVLRALYQLGMRYLTLTHSCNTPWADNWLVDGSEPPSQGLSPFGQRVVKELNRLGLVI
 DLAHVSVAATMKATLQLSRAPVIFSHSSAYSVCASRRNVPDDVLRVVKQTDLSLVMVNFYNNYISCTNKANL
 SQVADHLDHIKEVAGARAVGGDFDGVPRVPEGLEEDVSKYPDLIAELLRRNWTEAEVKGALADNLLRVF
 EAVEQASNLTAPEEEPIPLDQLGGSCRTHYGYSSGASSLHRHWGLLLASLAPLVLCLSLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6010_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001128141

ORF Size: 1233 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_001128141.2](#), [NP_001121613.1](#)

RefSeq Size: 1664 bp

RefSeq ORF: 1236 bp

Locus ID: 1800

UniProt ID: [P16444](#)

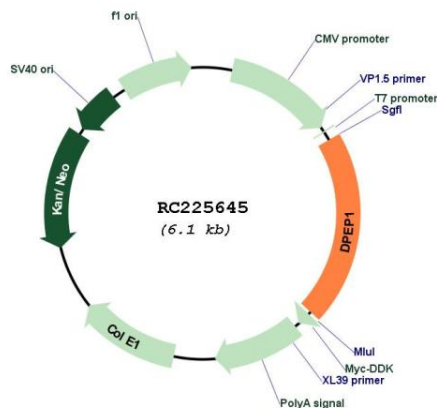
Cytogenetics: 16q24.3

Protein Families: Protease

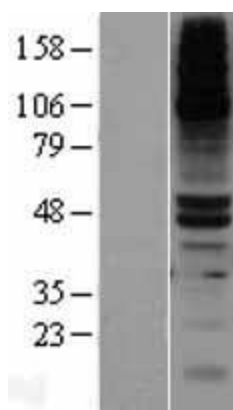
MW: 45.7 kDa

Gene Summary: The protein encoded by this gene is a kidney membrane enzyme involved in the metabolism of glutathione and other similar proteins by dipeptide hydrolysis. The encoded protein is known to regulate leukotriene activity by catalyzing the conversion of leukotriene D4 to leukotriene E4. This protein uses zinc as a cofactor and acts as a disulfide-linked homodimer. [provided by RefSeq, Dec 2020]

Product images:



Circular map for RC225645



Western blot validation of overexpression lysate (Cat# [LY426893]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225645 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).