

Product datasheet for **RC225883**

DPEP3 (NM_001129758) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	DPEP3
Synonyms:	MBD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC225883 representing NM_001129758
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATCCGGACCCATTGTGGCCTCTGCCCATCGCCTGCTCTCCAGGCTCCCGCGGCCGACCCCGC
 GCAACATGCAGCCACGGGCCGCGAGGGTTCCCGCGCGCTCAGCCGGCGGTATCTGCGGCGTCTGCTGCT
 CCTGCTACTGCTGCTGCTGCTGCGGCAGCCCGTAACCCGCGCGGAGACCACGCCGGGCGCCCCAGAGCC
 CTCTCCACGCTGGGCTCCCCAGCCTCTTACCACGCCGGGTGTCCCGAGCGCCTCACTACCCAGGCC
 TCACTACGCCAGGCACCCCAAAACCTGGACCTTCGGGGTGGCGCGCAGGCCCTGATGCGGAGTTTCC
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 AACCTGCGAAATTCAGCCATGGTCAGACCAGCCTGGACAGGCTTAGAGACGGCCTCGTGGGTGCCAGT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
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Protein Sequence: >RC225883 representing NM_001129758
 Red=Cloning site Green=Tags(s)

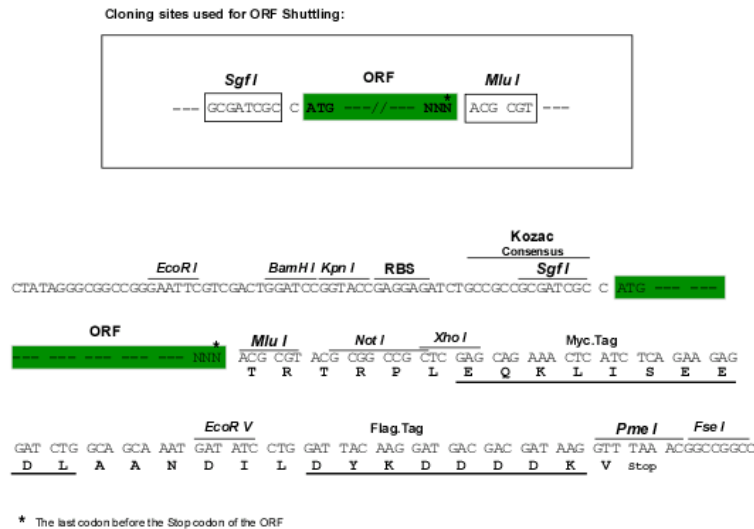
MIRTPLSASAHRLLLPGSRGRPPRNMQPTGREGSRALSRRYLRRLLLLLLLLLLLLRQPVTRAETTPGAPRA
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 NLRNFSHGQTSLDRLRDGLVGAQFWSASVSCSQSDQTAVRLALEQIDLIRMCASYSELELVTSAEGLNS
 SQKLACLIGVEGGHSLDSSLVLRSFYVLGVRYLTFTCTPWAESSTKFRHHMYTNVSGLSFGEKVV
 EELNRLGMMIDL SYASDTL IRRVLEVSQAPVIFSHSAARAVCDNLLNVPDDILQLLKNGGIVMVTLSMGV
 LQCNLLANVSTVADHFDHRAVIGSEF IGIGNYDGTGRFPQGLEDVSTYPVL IEELLRSRWSEELQGV
 LRGNLLRVFRQVEKVREESRAQSPVEAEFPYQLSTSCHSLVPQNGHQATHLEVTKQPTNRVPWRSSNA
 SPYLVPLVAAATIPTFTQWLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8101_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001129758

ORF Size: 1536 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:

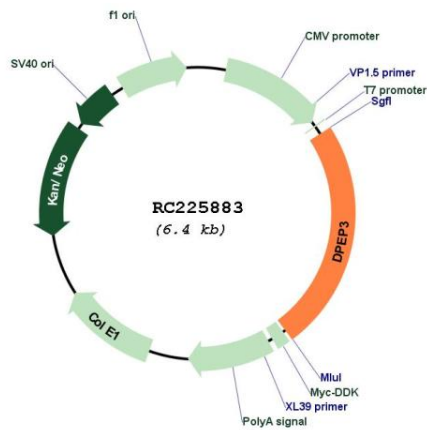
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

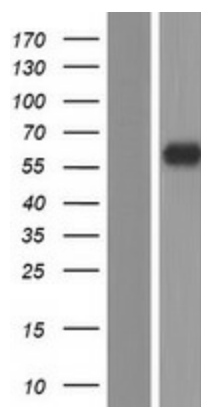
RefSeq: [NM_001129758.1](#), [NP_001123230.1](#)

RefSeq Size:	1753 bp
RefSeq ORF:	1464 bp
Locus ID:	64180
UniProt ID:	Q9H4B8
Cytogenetics:	16q22.1
Protein Families:	Druggable Genome, Protease
MW:	56.3 kDa
Gene Summary:	This gene encodes a membrane-bound glycoprotein from the family of dipeptidases involved in hydrolytic metabolism of various dipeptides, including penem and carbapenem beta-lactam antibiotics. This gene is located on chromosome 16 in a cluster with another member of this family. Alternatively spliced transcript variants that encode different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC225883



Western blot validation of overexpression lysate (Cat# [LY427042]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225883 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).