

Product datasheet for SC117405

DPEP1 (NM_004413) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPEP1 (NM_004413) Human Untagged Clone
Tag:	Tag Free
Symbol:	DPEP1
Synonyms:	MBD1; MDP; RDP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117405 sequence for NM_004413 edited (data generated by NextGen Sequencing)

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ATGTGGAGCGGATGGTGGCTGTGGCCCCTTGTGGCCGTCTGCACTGCAGACTTCTTTCCG
GACGAGGCAGAGAGGATCATGAGGGACTCCCCTGTCATTGATGGGCACAATGACCTCCCC
TGGCAGCTGCTGGATATGTTCAACAACCGGCTGCAGGACGAGAGGGCCAACCTGACCACC
TTGGCCGGCACACACCAACATCCCCAAGCTGAGGGCCGGCTTTGTGGGAGGCCAGTTC
TGGTCCGTGTACACGCCCTGCGACACCCAGAACAAGACGCCGTGCGGAGGACGCTGGAG
CAGATGGACGTGGTCCACCGCATGTGCCGGATGTACCCGGAGACCTTCTGTATGTCACC
AGCAGTGCAGGCATTCGGCAGGCCTTCCGGGAAGGGAAGGTGGCCAGCCTGATCGGCGTG
GAGGGCGGCCACTCCATTGACAGCAGTTTGGGCGTCTGCGGGCACTCTATCAGCTGGGC
ATGCGGTACCTGACCCTCACCCACAGCTGCAACACGCCCTGGGCTGACAAGTGGCTGGTG
GACACGGGAGACAGCGAGCCCCAGAGCCAAGGCTTGTACCCCTTTGGGCAGCGTGTGGTG
AAGGAGCTGAACCGTCTGGGGTCTCATCGACTTGGCTCACGTGTCTGTGGCCACCATG
AAGGCCACCCTGCAGCTGTCCAGAGCCCCGGTCACTTTCAGCCACTCCTCGGCCTACAGC
GTGTGCGCAAGCCGGCGCAACGTGCCTGACGACGTCTGAGGCTGGTGAACAGACAGAC
AGCCTGGTGATGGTGAACCTTCTACAACAATTACATTTCTGCACCAACAAGGCCAACCTG
TCCCAAGTGGCCGACCATCTGGATCACATCAAGGAGGTGGCAGGAGCCAGAGCCGTGGGT
TTTGGTGGGACTTTGATGGTGTCCAAGGGTCCCTGAGGGCTGGAGGACGTCTCCAAG
TATCCAGACCTGATCGCTGAGCTGCTCAGGAGGAAGTGGACGGAGCGGAGGTCAAGGGC
GCACTGGCTGACAACCTGCTGAGGGTCTTCGAGGCTGTGGAACAGGCCAGCAACCTCACA
CAGGCTCCCGAGGAGGAGCCATCCCGCTGGACCAGCTGGGTGGTCTCTGCAGGACCCAT
TACGGCTACTCCTCTGGGCTTCCAGCCTCCATCGCCACTGGGGCTCCTGCTGGCCTCC
CTCGCTCCCCTGGTCTCTGTCTGTCTCTCCTGTGA

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Clone variation with respect to NM_004413.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004413 unedited GGTTAGGATTTAGTATACGACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGCCTAGGC CGGGCCCTGCCAGGGAGCAAGTCTGCATCGCAGAGGCCAGGGCAGAGTGGCTCCTCACAG CCTGAAGCTCATCTTCTGCACGGGCCAGCCAGGCCAGCACAGAGGCCACCAGGGCAGCAG TGCACACAGGTCCCCGGGGACCCACCATGTGGAGCGGATGGTGGCTGTGGCCCCTTGTG GCCGTCTGCACTGCAGACTTCTTTCGGGACGAGGCAGAGAGGATCATGAGGGACTCCCCT GTCATTGATGGGCACAATGACCTCCCCTGGCAGCTGCTGGATATGTTCAACAACCGGCTG CAGGACGAGAGGGCCAACCTGACCACCTTGGCCGGCACACACACCAACATCCCCAAGCTG AGGGCCGCTTTGTGGGAGGCCAGTTCTGGTCCGTGTACACGCCCTGCGACACCCAGAAC AAAGACGCCGTGCGGAGGACGCTGGAGCAGATGGACGTGGTCCACCGCATGTGCCGGATG TACCCGGAGACCTTCTGTATGTACCAGCAGTGCAGGCATTTCGGCAGGCCTTCCGGGAA GGGAATGTGGCCAGCCTGATCGGCGTGGAGGGCGGCCACTCCATTGACAGCAGTTTGGGC GTCCTGCGGGCACTCTATCAGCTGGGCATGCGGTACCTGACCCTACCCACAGCTGCAAC ACGCCCTGGGCTGACACTGGCTGGTGGACACGGGAGACAGCGAGCCCCAGACCAAGGCTT GACACCCTTTGGGCACGTGTGGTAAAGACCCGACCCTCTGGGGTCTCATCGTTGGC CCACGCGCTGGGCCCATGAAGGGCCACCTGCCGCTGTCCAGAACCCCGGTATCTTT AGCCACTCCTGGGCCTAAACCGTGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004413 unedited GGCCGCATTTCTAGATCGAGTTTTTTTTTTTTTTTTTTTGTGAAGGGTGTGCTTTTATTG CGGGCCTACTGTGTGTGTCTGAAGTGTCCCCAGGCATCTGCCCCCCAGGTAAGCCC AGGCGTACTCTCAGGAGATGCTGGTCCCTTGCATGTGGGCAGCAGGGCTACTGGCATCTGG AGTCTCTGGGATGGGCGGGTCTTCCCGGAGCTACGGGAACCCTAAAGGGGACTCTGGTCTC NCAGGTTTACAGGAGAGACAGACAGAGACCAGGGGAGCGAGGGAGGTCAGCAGGAGTT CCCAGTGGCGATGGAGGCTGGAACCCCTAGAGGAGTAGGCGTAATGGTACTGCAGGAGA CACCCAGCTGGTCCAGCGGGATGGGATCATAACTCGGGAGCCTGTGTGAGGACGATGGAC TGCTAACAGACCTCAAGACCCGAGCAGGTGCGCCGATAGCGTGCCTTGACCTACGCCTA CGAATCGAATCTACTGAGAAGATGAGCGATCATGGCTGGATACTCGGAGACGTCCTCCAG CCACTGATGAACCTTGGACACCATCAAAGGTACCTCAGCCCTACGGGCCTGGCTGCCG ACCCCTACCTGATGTGATTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG GCAATGTATCGCGCCAGTCACCTTCCCGGCCGGCGCCGCATACCCCTTTCCGCCGG ACACAGGTAATCTGATCCGCTTGGTCCACGCCTGAGGCCGAGTGTATGCACAGACCCGG AACTGTACCCCGCGGGGACTCTTGTGGTCTCGCCCTTGGTCCATGACTGAGCCACCC AGGGTTACCCCTTTCCCGCTGCCAAGGTGCCACACTGAATTGGGGTCTTGTACGGGACC CCCCGTAACCACGGTGGGTCGTGTG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004413
Insert Size:	1630 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_004413.1](#), [NP_004404.1](#)

RefSeq Size: 1738 bp

RefSeq ORF: 1236 bp

Locus ID: 1800

UniProt ID: [P16444](#)

Cytogenetics: 16q24.3

Domains: Renal_dipeptase

Protein Families: Protease

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]

Transcript Variant: This variant (1) uses an alternate initial 5' UTR exon. Variants 1 and 2 encode the same protein.