

Product datasheet for **SC322300**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322300
 GTGCCTCTCCTGGCAGGCAGAGTGGCTCCTCACAGCCTGAAGCTCATCCTTCTGCACGGG
 CCAGCCAGGCCAGCACAGAGGCCACCAGGGCAGCAGTGCACACAGGTCCCCGGGGACCCCA
 CCATGTGGAGCGGATGGTGGCTGTGGCCCTTGTGGCCGTCTGCACTGCAGACTTCTTTC
 GGGACGAGGCAGAGAGGATCATGAGGGACTCCCCTGTATTGATGGGCACAATGACCTCC
 CCTGGCAGCTGCTGGATATGTTCAACAACCGGCTGCAGGACGAGAGGGCCAACCTGACCA
 CCTTGGCCGGCACACACACCAACATCCCCAAGCTGAGGGCCGGCTTGTGGGAGGCCAGT
 TCTGGTCCGTGTACACGCCCTGCGACACCCAGAACAAGACGCCGTGCGGAGGACGCTGG
 AGCAGATGGACGTGGTCCACCGCATGTGCCGGATGTACCCGGAGACCTTCTGTATGTCA
 CCAGCAGTGCAGGCATTGCGCAGGCCTTCCGGGAAGGGAAGGTGGCCAGCCTGATCGGCG
 TGGAGGGCGGCCACTCCATTGACAGCAGTTTGGGCGTCTGCGGGCACTTATCAGCTGG
 GCATGCGGTACCTGACCCTACCCACAGCTGCAACACGCCCTGGGCTGACAACTGGCTGG
 TGGACACGGGAGACGCGAGCCCCAGGCCAAGGCTTGTACCCTTTGGGCAGCGTGTGG
 TGAAGGAGCTGAACCGTCTGGGGTCTCATCGACTTGGCTCACGTGTCTGTGGCCACCA
 TGAAGGCCACCCTGCAGCTGTCCAGAGCCCCGGTATCTTCAGCCACTCCTCGGCCTACA
 GCGTGTGCGCAAGCCGGCGCAACGTGCCTGACGACGCTCCTGAGGCTGGTAAACAGACAG
 ACAGCCTGGTGTGGTGAACCTTACAACAATTACATTTCTGCACCAACAAGGCCAACCC
 TGTCCCAAGTGGCCGACCATCTGGATCACATCAAGGAGGTGGCAGGAGCCAGAGCCGTGG
 GTTTTGGTGGGGACTTTGATGGTGTCCAAGGGTCCCTGAGGGGCTGGAGGACGTCTCCA
 AGTATCCAGACCTGATCGCTGAGCTGCTCAGGAGGAACTGGACGGAGGGCGGAGGTCAAGG
 GCGCACTGGCTGACAACCTGTGAGGGTCTTCGAGGCTGTGGAACAGGCCAGCAACCTCA
 CACAGGCTCCCGAGGAGGAGCCCATCCCGCTGGACCAGCTGGGTGGCTCCTGCAGGACCC
 ATTACGGTACTCCTCTGGGGCTTCCAGCCTCCATCGCCACTGGGGGCTCCTGCTGGCCT
 CCCTCGTCCCCTGGTCTGTCTGTCTCCTGTGAAACCTGGGAGACCAGAGTCCCC
 TTTAGGGTCCCGGAGCTCCGGGAAGACCCGCCATCCCAGGACTCCAGATGCCAGGAGC
 CCTGCTGCCACATGCAAGGACCAGCATCTCCTGAGAGGACGCCTGGGCTTACCTGGGGG
 GCAGGATGCCTGGGGACAGTTCAGGACACACACAGTAGGCCCGCAATAAAAGCAACAC
 CCCTTCAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_004413
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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.