

## Product datasheet for **SC122933**

### DPEP2 (NM\_022355) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DPEP2 (NM\_022355) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** DPEP2  
**Synonyms:** MBD2  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_022355 edited  
GGGGGGGAATTGTCTGTATCAGACATCATGGGAGCAGATCCAGGGCGACATCAAAGGGAA  
GCATGAGTCTCCAGGACCAGAGGGGCTTGGATGCAGATGATCATCATCTGGGCACTGCTG  
GATACTGAGCTCTGACTGCCACCCCTGCCTGCCTGCCGGCCCTGCACAACATGCAGC  
CCTCCGGCCTCGAGGGTCCCGGCACGTTTGGTCCGTGGCCTCTGCTGAGTCTGCTGCTCC  
TGCTGCTGCTGCTCCAGCCTGTAACCTGTGCCTACACCACGCCAGGCCCCCCCAGAGCCC  
AGTTCTGGTCAGCCTATGTGCCATGCCAGACCCAGGACCGGGATGCCCTGCGCCTCACCC  
TGGAGCAGATTGACCTCATACGCCGATGTGTGCCTCCTATTCTGAGCTGGAGCTTGTA  
CCTCGGCTAAAGCTCTGAACGACACTCAGAAATTGGCCTGCCTCATCGGTGTAGAGGGTG  
GCCACTCGCTGGACAATAGCCTCTCCATTTTACGTACCTTCTACATGCTGGGAGTGCCT  
ACCTGACGCTCACCCACACCTGCAACACACCCTGGGCAGAGAGCTCCGCTAAGGGCGTCC  
ACTCCTTCTACAACAACATCAGCGGGCTGACTGACTTTGGTGAGAAGGTGGTGGCAGAAA  
TGAACCGCCTGGGCATGATGGTAGACTTATCCCACGTCTCAGATGCTGTGGCACGGCGGG  
CCCTGGAAGTGTACAGGCACCTGTGATCTTCTCCCACTCGGCTGCCCGGGTGTGTGCA  
ACAGTGTCTCGAATGTTCTGATGACATCCTGCAGCTTCTGAAGAAGAACGGTGGCGTGC  
TGATGGTGTCTTTGTCCATGGGAGTAATACAGTGCAACCCATCAGCCAATGTGTCCACTG  
TGGCAGATCACTTCGACCACATCAAGGCTGTCAATTGGATCCAAGTTCATCGGGATTGGTG  
GAGATTATGATGGGGCCGCAAATTCCTCAGGGGCTGGAAGACGTGTCCACATAACCCGG  
TCCTGATAGAGGAGTTGCTGAGTCTGGCTGGAGTGAGGAAGAGCTTCAGGGTGTCTTC  
GTGAAAACCTGCTGCGGTCTTCAGACAAGTGGAAAAGGTACAGGAAGAAAACAAATGGC  
AAAGCCCCCTGGAGGACAAGTTCCTCCGGATGAGCAGCTGAGCAGTTCCTGCCACTCCGACC  
TCTCACGTCTGCGTCAGAGACAGAGTCTGACTTCAGGCCAGGAACTCACTGAGATTTCCA  
TACACTGGACAGCCAAGTTACCAGCCAAGTGGTCACTCAGAGTCTCCCCCACATGG  
CCCCAGTCTTGCAGTTGTGGCCACCTTCCAGTCCTTATTCTGTGGCTCTGATGACCCA  
GTTAGTCTGCCAGATGCTACTGTAGCAAGCCACAGACACCCACAAAGTTCCCTGTTG  
TGCAGGCACAAAATTTCTGAAATAAATGTTTTGGACATTAACAAAAAAAAAAAAAAAAAA  
AAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_022355 unedited GTCAGAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCCATTACGGCCGGGGG GAATTGTCTGTATCAGACATCATGGGAGCAGATCCAGGGCGACATCAAAGGGAAGCATGA GTCTCCAGGACCAGAGGGGCTTGGATGCAGATGATCATCATCTGGGCACTGCTGGATACT GAGCTCTCTGACTGCCACCCCTGCCTGCCTGCCGGCCCTGCACAACATGCAGCCCTCCG GCCTCGAGGGTCCCGGCACGTTTGGTCGGTGGCCTCTGCTGAGTCTGCTGCTCCTGCTGC TGCTGCTCCAGCCTGTAACCTGTGCCTACACCACGCCAGGCCCCCCAGAGCCCACTTCT GGTCAGCCTATGTGCCATGCCAGACCCAGGACCGGGATGCCCTGCGCCTCACCTGGAGC AGATTGACCTCATACGCCGATGTGTGCCTCTATTCTGAGCTGGAGCTTGTGACCTCGG CTAAAGCTCTGAACGACACTCAGAAATTGGCCTGCCTCATCGGTGTAGAGGGTGGCCACT CGCTGGACAATAGCCTCTCCATTTTACGTACCTTCTACATGCTGGGAGTGCCTACCTGA CGCTCACCCACACCTGCAACACACCCCTGGGCAGAGAGCTCCGCTAAAGGCGTCCACTCCT TCTACAACAACATCAGCGGGCTGACTGACTTTGGTGAGAAGGTGGTGGCAGAAATGAACC GCCTGGGCATGATGGTAGACTTATCCCACGTCTCAAATGCTGTGGCACGGCGGCCCTGG AAGTGTCACAGGCACCTGTGATCTTCTTCCACTTCGCTGCCCGGGGTGTGTGCAACAGTG CTCCGGAATGTTCTGATGACCTCTGCAGCTTCTGAAAAAAACGGTGCCGTCGTGATG GTGCTTTGTCCATGGGAGTAATACGTGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_022355
<b>Insert Size:</b>	1506 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_022355.1</a> , <a href="#">NP_071750.1</a>
<b>RefSeq Size:</b>	1700 bp
<b>RefSeq ORF:</b>	1461 bp
<b>Locus ID:</b>	64174
<b>UniProt ID:</b>	<a href="#">Q9H4A9</a>
<b>Cytogenetics:</b>	16q22.1
<b>Protein Families:</b>	Druggable Genome, Protease

**Gene Summary:**

DPEP2 belongs to the membrane-bound dipeptidase (EC 3.4.13.19) family. These enzymes hydrolyze a variety of dipeptides, including leukotriene D4, the beta-lactam ring of some antibiotics, and cystinyl-bis-glycine (cys-bis-gly) formed during glutathione degradation (Habib et al., 2003 [PubMed 12738806]).[supplied by OMIM, Mar 2008]