

## Product datasheet for **MC222823**

### Dspp (NM\_010080) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dspp (NM_010080) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dspp
Synonyms:	D; Dmp; Dmp2; Dmp3; Dpp; Dsp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC22823 representing NM\_010080  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAATGAAGATAATTATATATATATGCATTTGGGCAACTGCCTGGGCCATTCGGTTCCCCAGTTAG  
 TACCCTGGAAAGAGACATTGTTGAAAACCTCTGTGGCTGTGCCTTCTAACACATCCAGGAACTGCAGC  
 ACAGAATGAGTTATCTATCAACAGCACCTAGCAACAGCAACGACTCCCCAGATGGCAGTGAGATAGGA  
 GAGCAGGTAAGGAGGATGGTTACAAAAGAGATGGGAATGGCTCCGAGTCAATACATGTAGGAGGGA  
 AGGATTTTCTACTCAGCCATTTTAGTAAACGAACAGGGGAACACTGCTGAAGAACACAATGACATAGA  
 AACATACGGTCATGATGGGGTACATGCGAGAGGAGAGAACAGCACAGCAATGGCATCAGGAGCCAGGTA  
 GGCATCGTTGAAAATGCGGAGGAAGCAGAGAGCAGTGTCCACGGACAGGCTGGTCAGAATACAAAATCTG  
 GAGGTGCTAGTGATGTAAGCCAGAATGGAGATGCGACCCTTGCCAGGAAAATGAGCCTCCAGAAGCTAG  
 CATCAAGAATAGCACCAACCATGAGGCTGGAATACACGGGAGTGGGGTTGCTACACATGAAACGACGCCCT  
 CAGAGAGAAGGGCTGGGGAGTGAGAACCAGGGGACTGAGGTGACACCAAGCATCGGGGAAGATGCAGGTT  
 TGGATGATACTGATGGGAGTCTAGCGGGAACGGGGTAGAGGAGGATGAAGATACAGGCTCTGGTATGG  
 TGAGGGTGCAGAAGCAGGAGATGGAAGGGAGAGCCATGATGGCTAAGGGCCAGGGGGCCAATCTCAT  
 GGGGGAACACTGACCACAGAGGTGAGGTTGAGTTAGTACTGAAGATGATGATTCTAAAGAACAAGAAG  
 GCTTCCCAATGGACACAATGGAGACAACAGCAGTGGAGAAAACGGTGTGAAGAAGGCGACAGTACCCA  
 GGCAACGCAGGACAACAAAAGCTCAGCCCCAAGACACCCGAGATGCAGAGGGTGGGATCATCAGCCAG  
 TCAGAAGCATGTCCTTCTGGGAAGAGCCAAGATCAGGGAATAGAACTGAAGTCCCAACAAGGCAACA  
 AAAGTATTATTACAAAGAATCTGGGAACTCAGTGGAAAGTAAAGATAGCAATGGACACCAAGGAGTGA  
 GCTGGACAAAAGGAATAGCCCAAAGCAAGGGGAGTCTGACAAGCCTCAAGGCACTGCTGAGAAAATCAGT  
 GCCCACAGTAACCTGGGACACAGCAGGATAGGTAGCAGCAGCAATAGTGATGGGCATGACAGTTACGAGT  
 TCGATGACGAGTCCATGCAAGGAGATGATCCCAAGAGCAGCGACGAATCTAACGGAAGTACGAAAGTGA  
 CACTAATCTGAAAGCGCAATGAGAGTGGCAGCCGTGGAGATGCTTCTTACACATCTGATGAATCAAGT  
 GATGATGACAATGACAGTGACTCACATGCGGGGAGAAGACGATAGCAGTGATGACTCATCTGATACAGATG  
 ACAGTGACAGTAATGGTATGGTACAGTGACAGTAATGGTATGGTACAGCGAGAGTGAGGACAAGGA  
 CGAATCTGACAGCAGTGACCATGACAACAGCAGTGACAGTGAGAGCAATCAGACAGCAGTGACAGTAGT  
 GACGACAGCAGTGACAGCAGCGACAGTAGTGACAGCAGTGACAGCAGTGACAGTAGTGACAGTAGTGACA  
 GCAGCGACAGCAGTGACAGCAGCGACAGCAACAGTAGTAGTGACAGCAGCGACAGCAGCAGTAGTAGTGA  
 CAGCAGCGACAGCAGTGACAGCAGTGACAGCAGTGACAGCAGCGATAGCAGTGACAGCAGTGACAGCAGT  
 GACAGCAGCGATAGCAGTGACAGCAGTGACAGTAGTGACAGCAGTGACAGCAGCGACAGCAGCAGTAGTA  
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 CAGTGACAGCAGTGACAGCAGCAGCAGCGACAGCAGCAGTAGCAACAGCAGTGACAGTAGTGACAGCAG  
 AGTGACAGCAGCAGCAGCAGCGACAGCAGCAACAGCAGCGACAGCAGTGACAGTAGTGACAGCAGTGACA  
 CAGCAGCAGTAGTAGTGACAGCAGTGACAGTAGTGACAGTAGTGACAGTAGTGACAGCAGTGAGAGCAGC  
 GACAGCAGCAACAGCAGTGACAGCAGCGACAGTAGTGACAGCAGTGACAGTAGCGACAGCAGCGACAGTA  
 GTGACAGTAGCGACAGCAGTGACAGTAGCAACAGTAGCGACAGCAGTGACAGCAGTGACAGCAGCGACAG  
 TAGTGACAGCAGCAACAGTAGTGACAGCAGTGACAGTAGCGACAGTAGTGACAGCAGTGACAGCAGTGAC  
 AGCAGCGACAGTAGTGACAGCAGTGACAGTAGTGACAGCAGCGACAGTAGTGACAGCAGTGACAGCAGTG  
 ACAGCAGTGACAGCAGCGACAGCAGCGACAGCAGTGACAGCAGCGACAGCAGCGACAGCAGTGACAGCAG  
 CGACAGCAGCAACAGCAGTGACAGCAGTGACAGTGACAGCAAGGATAGCAGTTCTGACAGCAGTGATGGT  
 GACAGCAAGTCTGGTAATGGCAACAGTGACAGCAACAGTGACAGCAACAGTGACAGTGACAGTGACAGTG  
 AAGGCAGTGACAGTAACCACTCAACCAGTGATGAT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

<b>ACCN:</b>	NM_010080
<b>Insert Size:</b>	2838 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_010080.3</a> , <a href="#">NP_034210.2</a>
<b>RefSeq Size:</b>	4440 bp
<b>RefSeq ORF:</b>	2838 bp
<b>Locus ID:</b>	666279
<b>Cytogenetics:</b>	5 50.59 cM
<b>Gene Summary:</b>	This gene encodes a member of the small integrin-binding ligand N-linked glycoprotein (SIBLING) family of proteins. The encoded preproprotein is secreted by odontoblasts and proteolytically processed to generate two principal proteins of the dentin extracellular matrix of the tooth, dentin sialoprotein and dentin phosphoprotein. These two protein products may play distinct but related roles in dentin mineralization. Mice lacking the encoded protein exhibit hypomineralization defects in dentin, similar to human dentinogenesis imperfecta. [provided by RefSeq, Feb 2016]