

## Product datasheet for **MC227415**

### Dmtn (NM\_001252663) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dmtn (NM\_001252663) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Dmtn  
**Synonyms:** AI325486; dematin; Epb4.9; Epb49  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227415 representing NM\_001252663  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAACGTCTGCAGAAGCAACCTTTACCTCCCCGGGGAGCGTCAGCTCCTCCAGAGACTCCAGTGTGC  
 CCGGCTCTCCCTCCAGCATCGTGGCCAAGATGGACAACCAGGTGTTGGGCTACAAGGATCTGGCTGCCAT  
 CCCCAGGACAAGGCCATCCTGGACATTGAGCGACCTGACCTCATGATCTATGAGCCCCACTTTACCTAT  
 TCCTCCTGGAACATGTAGAGCTGCCAGAAGCCGGGAGTGCTCACTGTCAACCAATCCACATCCCCC  
 CACCGTCTCCAGAGGTGTGGCGGAGAGCCGGACTCTTGAATCATCTCTCAGGTTCAACCCCAAGGAC  
 CACAGGGACCCCCAGGACCAGCCTGCCCACTTCCACCACCTGAGACTACCCGCCCGGATTCCAACATC  
 TACAAGAAGCCACCCATCTACAAACAGAGAGAATCCGTGGGAGGCAGCCCTCAGAGCAAGCACCTCATCG  
 AGGACCTCATCATCGAATCCTCCAAGTTTCTGCAGCGCAGCCCCCTGACCCCAACCAGCCAGCCAAGAT  
 AGAGACTGACTACTGGCCATGTCCCCGTCGCTGGCCGTTGTGGAGACAGAATGGAGGAAACGGAAGGCA  
 TCTCGAAAGGGGGCAGAGGAAGAGGAGGAAGAGGAAGACGATGACTCTGAAGAGGAGATTAAGGCCATCA  
 GGGAACGGCAGAAAGAGGAGCTCAGTAAGGTTACTTCCAATTGGGAAAGATGATCTTGAAGAAGAGAT  
 GGAAAAGTCATTGCCATCCGGAGGAAAACACGCTCTCTGCCTGACCGGACACCCTCCATACCTCCTTG  
 CATTCCGGGAACATCTAAATCCTCTTCGTTCTTCTTCTATGGCAGGACCACCCTGAGCCGGCTACAGTCCA  
 CAGAATTCAGCCCATCGGGAAGTGGGCTGGGAGCCAGGCTGCAGATCTATCCCTATGAGATGCTGGT  
 GGTGACCAATAAGGGGAGAACTAAGCTGCCTCCGGGTGTGGACCGCATGAGGCTTGGAGGCATTTGTCA  
 GCAGAGGACTTCTAGGGTCTTCGCCATGTCTCCCGAGGAGTTGGCAAGCTGGCCCTGTGGAAGCGGA  
 ACGAACTTAAGAAGAAAGCTTCCCTCTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



[View online >](#)

<b>ACCN:</b>	NM_001252663
<b>Insert Size:</b>	1152 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001252663.1</a></u> , <u><a href="#">NP_001239592.1</a></u>
<b>RefSeq Size:</b>	4193 bp
<b>RefSeq ORF:</b>	1152 bp
<b>Locus ID:</b>	13829
<b>UniProt ID:</b>	<u><a href="#">Q9WV69</a></u>
<b>Cytogenetics:</b>	14 36.32 cM
<b>Gene Summary:</b>	<p>Membrane-cytoskeleton-associated protein with F-actin-binding activity that induces F-actin bundles formation and stabilization. Its F-actin-bundling activity is reversibly regulated upon its phosphorylation by the cAMP-dependent protein kinase A (PKA). Binds to the erythrocyte membrane glucose transporter-1 SLC2A1/GLUT1, and hence stabilizes and attaches the spectrin-actin network to the erythrocytic plasma membrane. Plays a role in maintaining the functional integrity of PKA-activated erythrocyte shape and the membrane mechanical properties. Plays also a role as a modulator of actin dynamics in fibroblasts; acts as negative regulator of the RhoA activation pathway. In platelets, functions as a regulator of internal calcium mobilization across the dense tubular system that affects platelet granule secretion pathways and aggregation. Also required for the formation of a diverse set of cell protrusions, such as filopodia and lamellipodia, necessary for platelet cell spreading, motility and migration. Acts as a tumor suppressor and inhibits malignant cell transformation.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks an in-frame coding exon in the 3' region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1. Variants 2, 3 and 10 encode the same isoform 2.</p>