

## Product datasheet for **MR229468**

### Dmtn (NM\_001252665) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dmtn (NM\_001252665) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dmtn  
**Synonyms:** AI325486; dematin; Epb4.9; Epb49  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR229468 representing NM\_001252665  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAACGTCTGCAGAAGGCCAAGATGGACAACCAGGTGTTGGGCTACAAGGATCTGGCTGCCATCCCCA  
AGGACAAGGCCATCCTGGACATTGAGCGACCTGACCTCATGATCTATGAGCCCCACTTTACCTATTCCT  
CCTGGAACATGTAGAGCTGCCAGAAGCCGGGAGTGCTCACTGTACCCAAATCCACATCCCCCCACCG  
TCTCCAGAGGTGTGGGCGGAGAGCCGGACTCTTGGAAATCATCTCTCAGGCTTCAACCCCAAGGACCACAG  
GGACCCCCAGGACCAGCCTGCCCACTTCCACCACCTGAGACTACCCGCCCGGATTCCAACATCTACAA  
GAAGCCACCCATCTACAAACAGAGAGAATCCGTGGGAGGCAGCCCTCAGAGCAAGCACCTCATCGAGGAC  
CTCATCATCGAATCCTCCAAGTTTCTGACGCGCAGCCCTGACCCCAACCAGCCAGCCAAGATAGAGA  
CTGACTACTGGCCATGTCCCCGTCGCTGGCCGTTGTGGAGACAGAATGGAGGAAACGGAAGGCATCTCG  
AAAGGGGGCAGAGGAAGAGGAGGAAGAGGAAAGACGATGACTCTGAAGAGGAGATTAAGGCCATCAGGGAA  
CGGCAGAAAGAGGAGCTCAGTAAGGTTACTTCCAATTGGGAAAGATGATCTTGAAGAAGAGATGGAAA  
AGTCATTGCCATCCGGAGGAAAACACGCTCTCTGCCTGACCCGACACCCTTCCATACCTCCTTGCATT  
GGGAACATCTAAATCCTCTTCGCTTCTTCCATGGCAGGACCACCTGAGCCGGCTACAGTCCACAGAA  
TTCAGCCCATCGGGAAGTGAAGGCTGGGAGCCAGGCTGCAGATCTATCCCTATGAGATGCTGGTGGTGA  
CCAATAAGGGGAGAACTAAGCTGCCTCCGGGTGTGGACCGCATGAGGCTTGAAGGCATTTGTCAGCAGA  
GGACTTCTTAGGGTCTTCGCCATGTCTCCCGAGGAGTTTGGCAAGCTGGCCCTGTGGAAGCGGAACGAA  
CTTAAGAAGAAAGCTTCCCTCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229468 representing NM\_001252665  
 Red=Cloning site Green=Tags(s)

MERLQKAKMDNQVLGYKDLAAIPKDKAILDIERPDLMIYEPHFYSLLEHVELPRSRECSLSPKSTSPPP  
 SPEVWAESRTLGIISQASTPRTTGTPTSLPHFHPETTRPDSNIYKPPPIYKQRESVGGSPQSKHLIED  
 LIIESSKFPAAQPPDPNQPAKIEDYWPCCPSLAVVETEWKRKRASRKGAEEEEEEEEDDSEEEIKAI  
 RQKEELSKVTSNLGKMILKEEMKSLPIRRKTRSLPDRTPFHTSLHSGTSKSSSLPSYGRITLRLQSTE  
 FSPSGSEAGSPGLQIYPYEMLVVTNKGRTKLPVDRMLERHLSAEDFSRVFAMSPPEFGKLALWKRNE  
 LKKKASLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

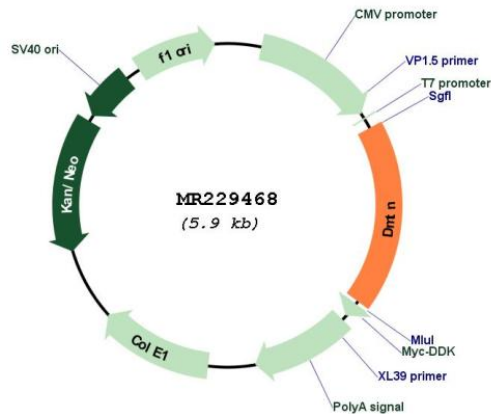
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001252665

<b>ORF Size:</b>	1074 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001252665.1</a> , <a href="#">NP_001239594.1</a>
<b>RefSeq Size:</b>	3919 bp
<b>RefSeq ORF:</b>	1077 bp
<b>Locus ID:</b>	13829
<b>UniProt ID:</b>	<a href="#">Q9WV69</a>
<b>Cytogenetics:</b>	14 36.32 cM
<b>MW:</b>	41.1 kDa
<b>Gene Summary:</b>	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. [UniProtKB/Swiss-Prot Function]