

Product datasheet for **MG205979**

Dmtn (NM_013514) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmtn (NM_013514) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dmtn
Synonyms:	A1325486; dematin; Epb4.9; Epb49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205979 representing NM_013514 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACGCTGTCAGAAGCAACCTTTACCTCCCCGGGGAGCGTCAGCTCCTCCAGAGACTCCAGTGTGC
CCGGCTCTCCCTCCAGCATCGTGGCCAAGATGGACAACCAGGTGTTGGGTACAAGGATCTGGCTGCCAT
CCCCAAGGACAAGGCCATCCTGGACATTGAGCGACCTGACCTCATGATCTATGAGCCCCACTTTACCTAT
TCCCTCCTGGAACATGTAGAGCTGCCAGAAGCCGGGAGTGCTCACTGTACCCAAATCCACATCCCCC
CACCGTCTCCAGAGGTGTGGCGGAGAGCCGGACTCTTGAATCATCTCTCAGGTTCAACCCCAAGGAC
CACAGGGACCCCAAGGACCGCTGCCCACTTCCACCACCTGAGACTACCCGCCCGGATTCACATC
TACAAGAAGCCACCCATCTACAAACAGAGAGAATCCGTGGGAGGCAGCCCTCAGAGCAAGCACCTCATCG
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AGAGACTGACTACTGGCCATGTCCCCGTGCTGGCCGTTGTGGAGACAGAATGGAGGAAACGGAAGGCA
TCTCGAAAGGGGGCAGAGGAAGAGGAGGAAGAGGACGATGACTCTGAAGAGGAGATTAAGGCCATCA
GGAAACGGCAGAAAGAGGAGCTCAGTAAGGTTACTTCAAATGGGAAAGATGATCTTGAAGAAGAGAT
GGAAAAGTCATTGCCCATCCGGAGGAAAACACGCTCTCTGCCTGACCCGGACACCCCTCCATACCTCCTTG
CATTCCGGAACATCTAAATCCTCTCGCTTCCCTCCTATGGCAGGACCACCTGAGCCGGCTACAGTCCA
CAGAATTCAGCCCATCGGGAAGTGAGGCTGGGAGCCAGGCTGCAGATCTATCCCTATGAGATGCTGGT
GGTGACCAATAAGGGGAGAACTAAGCTGCCTCCGGGTGTGGACCGCATGAGGCTTGAGAGGCATTTGTCA
GCAGAGGACTTCTTAGGGTCTTCGCCATGTCTCCCGAGGAGTTTGGCAAGCTGGCCCTGTGGAAGCGGA
ACGAACTTAAGAAGAAAGCTTCCCTCTTC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



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Protein Sequence: >MG205979 representing NM_013514
Red=Cloning site Green=Tags(s)

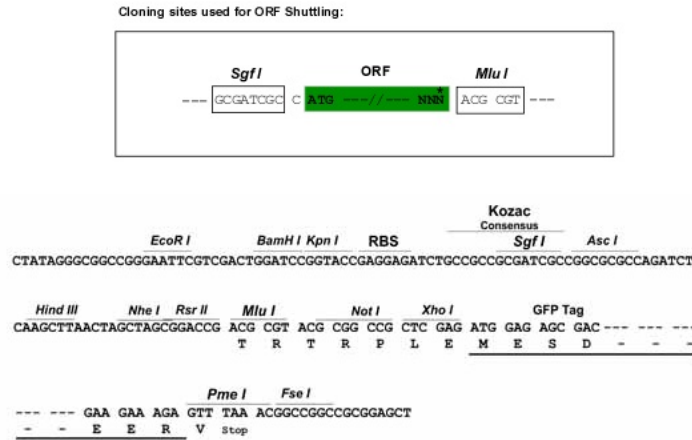
MERLQKQPLTSPGSVSSSRDSSVPGSPSSIVAKMDNQVLGYKDLAAIPKDKAILDIERPDLMIYEPHFTY
 SLLLEHVELPRSRECSLSPKSTSPPPSPEVWAESRTLGIISQASTPRTTGTPTSLPHFHHPETTRPDSNI
 YKKPPIYKQRESVGGSPQSKHLIEDLIIESSKFPAAQPPDPNQPAKIETDYWPCPPSLAVVETWRKKA
 SRKGAEEDDDSEEEIKAIRERQKEELSKVTSNLGKMILKEEMEKSLPIRRKTRSLPDRTPFHTSL
 HSGTSKSSSLPSYGRITLRLQSTEFSPSGSEAGSPGLQIYPYEMLVVTNKGRTKLPVGVDRMLERHLS
 AEDFSRVFAMSPPEFGKLALWKRNELKKKASLF

TRTRPLE - GFP Tag - V

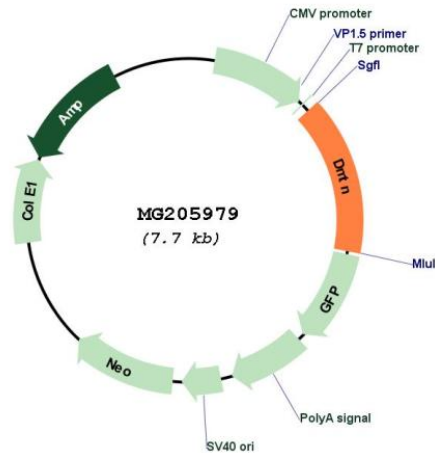
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_013514

ORF Size:	1149 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_013514.4 , NP_038542.1
RefSeq Size:	2643 bp
RefSeq ORF:	1152 bp
Locus ID:	13829
UniProt ID:	Q9WV69
Cytogenetics:	14 36.32 cM
Gene Summary:	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]