

Product datasheet for MR229608

Dmtn (NM_001252664) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmtn (NM_001252664) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dmtn
Synonyms:	A1325486; dematin; Epb4.9; Epb49
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229608 representing NM_001252664 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAACGTCTGCAGAAGGCCAAGATGGACAACCAGGTGTTGGGCTACAAGGATCTGGCTGCCATCCCCA
AGGACAAGGCCATCCTGGACATTGAGCGACCTGACCTCATGATCTATGAGCCCCACTTTACCTATTCCT
CCTGGAACATGTAGAGCTGCCAGAAGCCGGGAGTGCTCACTGTACCCAAATCCACATCCCCCCACCG
TCTCCAGAGGTGTGGCGGAGAGCCGGACTCTTGGAAATCATCTCTCAGGCTTCAACCCCAAGGACCACAG
GGACCCCCAGGACCAGCCTGCCCACTTCCACCACCTGAGACTACCCGCCCCGGATTCCAACATCTACAA
GAAGCCACCCATCTACAAACAGAGAGAATCCGTGGGAGGCAGCCCTCAGAGCAAGCACCTCATCGAGGAC
CTCATCATCGAATCCTCCAAGTTTCTGACGCGCAGCCCTGACCCCAACCAGCCAGCCAAGATAGAGA
CTGACTACTGGCCATGTCCCCGTCGCTGGCCGTTGTGGAGACAGAATGGAGGAAACGGAAGGCATCTCG
AAAGGGGGCAGAGGAAGAGGAGGAAGAGGAAGACGATGACTCTGAAGAGGAGATTAAGGCCATCAGGGAA
CGGCAGAAAGAGGAGCTCAGTAAGTTACTTCCAATTGGGAAAGATGATCTTGAAGAAGAGATGGAAA
AGTCATTGCCATCCGGAGGAAAACACGCTCTCTGCCTGACCCGACACCCTTCCATACCTCCTTGCAATC
GGGAACATCTAAATCCTCTTCGCTTCTTCCATGAGCAGGACCCTGAGCCGGCTACAGTCCACAGAA
TTCAGCCCATCGGGAAGTGAGGCTGGGAGCCAGGCTGCAGAACGGAGAGGGCCAGAGGGGGAGGATGG
ATCGGGGGAACCTCCCTGCCCTGTGTGCTGGAGCAGAAGATCTATCCCTATGAGATGCTGGTGGTACCAA
TAAGGGGAGAATAAGCTGCCTCCGGGTGTGGACCGCATGAGGCTTGAAGGCATTTGTCAGCAGAGGAC
TTCTCTAGGGTCTTCGCCATGTCTCCCGAGGAGTTTGGCAAGCTGGCCCTGTGGAAGCGGAACGAACCTTA
AGAAGAAAGCTTCCCTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229608 representing NM_001252664
 Red=Cloning site Green=Tags(s)

MERLQKAKMDNQVLGYKDLAAIPKDKAILDIERPDLMIYEPHFYSLLEHVELPRSRECSLSPKSTSPPP
 SPEVWAE SRLTGIISQASTPRTTGTPTSLPHFHPETTRPDSNIYKPPPIYKQRESVGGSPQSKHLIED
 LIIESSKFPAAQPPDPNQPAKIE TDYWPCPPSLAVVETEWKRKRKASRKGAEEEEEEEEDDSEEEIKAI
 RQKEELSKVTSNLGKMILKEEMKSLPIRRKTRSLPDRTPFHSLHSGTSKSSSLPSYGR TTL SRLQSTE
 FSPSGSEAGSPGLQNGEGQRMDRGNLPCVLEQKIYPYEMLVVTKGR TKLPPGVDRMLERHLSAED
 FSRVFAMSP EEFGKLALWKRNELKKKASLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

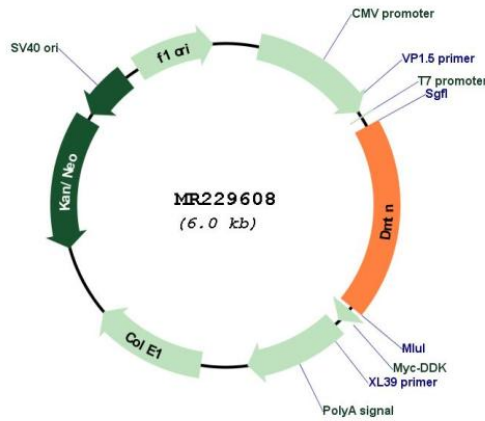
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001252664

ORF Size:	1140 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_001252664.1 , NP_001239593.1
RefSeq Size:	4086 bp
RefSeq ORF:	1143 bp
Locus ID:	13829
UniProt ID:	Q9WV69
Cytogenetics:	14 36.32 cM
MW:	43.5 kDa
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]