

Dematin (DMTN) (NM_001114137) Human Tagged Lenti ORF Clone

Product Type:	Expression Plasmids
Product Name:	Dematin (DMTN) (NM_001114137) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Dematin
Synonyms:	DMT; EPB49
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC225585).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	

... *SgfI* GCG ATC GC **ATG --- // --- NNN** *MluI* ACG CGT ...

EcoRI BamHI RBS SgfI Kozak Consensus ORF
 CTATAGGGCGGCGGGGAATTCGTCGACTGGATCGGTACCGAGGAGATCTGCCGCGCATGC C ATG --- --- ---
 --- --- --- --- --- NNN MluI NotI XhoI Myc.Tag
 --- --- --- --- --- NNN T R T R P L E Q K C L T I S E E
 DDK.Tag
 GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TGGGTTAGGAAG
 D L A A N D I L K D D D D K V

ACCN: NM_001114137

ORF Size: 1149 bp

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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:	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_001114137.1
RefSeq ORF:	1152 bp
Locus ID:	2039
UniProt ID:	Q08495
Cytogenetics:	8p21.3
MW:	42.9 kDa
Gene Summary:	The protein encoded by this gene is an actin binding and bundling protein that plays a structural role in erythrocytes, by stabilizing and attaching the spectrin/actin cytoskeleton to the erythrocyte membrane in a phosphorylation-dependent manner. This protein contains a core domain in the N-terminus, and a headpiece domain in the C-terminus that binds F-actin. When purified from erythrocytes, this protein exists as a trimer composed of two 48 kDa polypeptides and a 52 kDa polypeptide. The different subunits arise from alternative splicing in the 3' coding region, where the headpiece domain is located. Disruption of this gene has been correlated with the autosomal dominant Marie Unna hereditary hypotrichosis disease, while loss of heterozygosity of this gene is thought to play a role in prostate cancer progression. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2014]