

## Product datasheet for **RC237740**

### Dematin (DMTN) (NM\_001302817) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dematin (DMTN) (NM\_001302817) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DMTN  
**Synonyms:** DMT; EPB49  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237740 representing NM\_001302817  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAACGGCTGCAGAAGGCCAAGATGGACAATCAGGTGCTGGGCTACAAGGACCTGGCTGCCATCCCCA  
AGGACAAGGCCATCCTGGACATCGAGCGGCCGACCTCATGATCTACGAGCCTCACTTCACTTATCCCT  
CCTGGAACACGTGGAGCTGCCTCGCAGCCGCGAGGTGTGGCGGACAGCCGGTCGCTGGAATCATCTCT  
CAGGCCTCGGCCCCAGAACCACTGGAACCCCGGACCAGCCTGCCCAATTTCCACCACCTGAGACCT  
CCCGCCAGATTCCAACATCTACAAGAAGCCTCCCATCTATAAGCAGAGAGAGTCCGTGGGAGGCAGCCC  
TCAGACCAAGCACCTCATCGAGGATCTCATCGAGTCATCCAAGTTTCTGCAGCCCAGCCCCAGAC  
CCCAACCAGCCAGCCAAAATCGAAACCGACTACTGGCCATGCCCCCGTCTCTGGCTGTTGTGGAGACAG  
AATGGAGGAAGCGGAAGGCGTCTCGGAGGGGAGCAGAGGAAGAGGAGGAGGAAGATGACGACTCTGG  
AGAGGAGATGAAGGCTCTCAGGGAGCGTCAGAGAGAGGAACTCAGTAAGGTTACTTCCAACCTGGGAAAG  
ATGATCTTGAAAGAAGAGATGAAAAAGTCATTGCCGATCCGAAGGAAAACCCGCTCTCTGCTGACCGGA  
CACCTTCCATACCTCCTTGACACAGGAACTCTAAATCTTCTCTCCCCGCTATGGCAGGACCAC  
CCTGAGCCGGCTACAGTCCACAGAGTTCAGCCATCAGGGAGTGAGACTGGAAGCCAGGCTGCAGAAC  
GGAGAGGGCCAGAGGGGAGGATGGACCGGGGAACTCCCTGCCCTGTGTGCTGGAGCAGAAGATCTATC  
CCTATGAAATGCTAGTGGTGACCAACAAGGGGCGAACCAAGCTGCCACCGGGGGTGGATCGGATGCGGCT  
TGAGAGGCATCTGTCTGCCGAGGACTTCTCAAGGGTATTTGCCATGTCCCTGAAGAGTTTGGAAGCTG  
GCTCTGTGGAAGCGGAATGAGCTCAAGAAGAAGGCCTCTCTCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237740 representing NM\_001302817  
 Red=Cloning site Green=Tags(s)

MERLQKAKMDNQVLGYKDLAAIPKDKAILDIERPDLMIYEPHFYSLLEHVELPRSREVWADSRSPGIIS  
 QASAPRTTGTPTSLPHFHPETSRPDSNIYKKPPIYKQRESVGGSPQTKHLIEDLIISSKFPAQPPD  
 PNQPAKIETDYWPCPPSLAVVETEWRRKASRRGAEEDDDSGEEMKALRERQREELSKVTSNLGK  
 MILKEEMKSLPIRRKTRSLPDRTPFHTSLHQGTSSSSLPAYGRITLRLQSTEFSPSGSETGSPGLQN  
 GEGQRGRMDRGNLPCVLEQKIYPYEMLVVTNKGRTKLPPGVDRMLERHLSAEDFSRVFAMSPPEFGKL  
 ALWKRNELKKKASLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

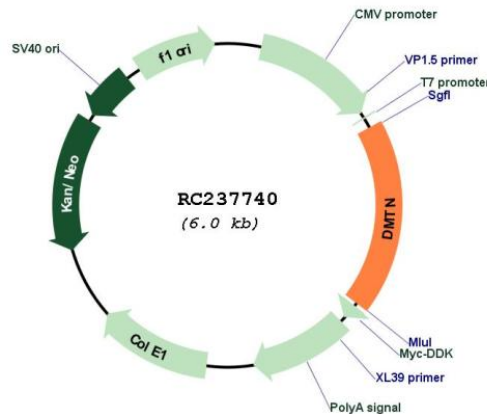
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001302817

<b>ORF Size:</b>	1095 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_001302817.3</a>
<b>RefSeq Size:</b>	2539 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	2039
<b>UniProt ID:</b>	<a href="#">Q08495</a>
<b>Cytogenetics:</b>	8p21.3
<b>MW:</b>	42 kDa
<b>Gene Summary:</b>	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]