

## Product datasheet for **RG237878**

### Dematin (DMTN) (NM\_001302816) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dematin (DMTN) (NM_001302816) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dematin
Synonyms:	DMT; EPB49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237878 representing NM_001302816. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAACGGCTGCAGAAGCAACCACTTACCTCCCCGGGAGCGTGAGCCCTCCCGAGATCCAGTGTG
CCTGGCTCTCCCTCCAGCATCGTGGCCAAGATGGACAATCAGGTGCTGGGCTACAAGACCTGGCTGCC
ATCCCCAAGGACAAGGCCATCCTGGACATCGAGCGGCCGACCTCATGATCTACGAGCCTCACTTCACT
TATTCCCTCCTGGAACACGTGGAGCTGCCTCGCAGCCGCGAGCGCTCGCTGTACCCAAATCCACATCC
CCCCACCATCCCAGAGGTGTGGCGGACAGCCGGTGCCTGGAATCATCTCTCAGGCCTCGGCCCCC
AGAACCACTGGAACCCCGGACCAGCCTGCCCATTTCCACCACCTGAGACCTCCCGCCAGATTCC
AACATCTACAAGAAGCCTCCCATCTATAAGCAGAGAGAGTCCGTGGGAGGAGCCCTCAGACCAAGCAC
CTCATCGAGGATCTCATCATCGAGTCATCCAAGTTTCTGCAGCCAGCCCCAGACCCCAACGAGCCA
GCCAAATCGAAACCGACTACTGGCCATGCCCCCGTCTCTGGCTGTTGTGGAGACAGAATGGAGGAAG
CGGAAGGCGTCTCGGAGGGGAGCAGAGGAAGAGGAGGAGGAGGAAGATGACGACTCTGGAGAGGAGATG
AAGGCTCTCAGGGAGCGTCAGAGAGAGGAACCTCAGTAAGGTTACTTCCAACCTGGGAAAGATGATCTTG
AAAGAAGAGATGGAAAAGTCATTGCCGATCCGAAGGAAAACCCGCTCTCTGCCTGACCGGACACCCCTC
CATACCTCCTTGACACAGGAACGTCTAAATCTTCCTCTCTCCCCGCTATGGCAGGACCACCCCTGAGC
CGGCTACAGTCCACAGATTCAGCCCATCAGGGAGTGAGACTGGAAGCCAGGCCTGCAGATCTATCCC
TATGAAAATGCTAGTGGTGACCAACAAGGGCGAACCAAGCTGCCACCGGGGTGGATCGGATGCGGCTT
GAGAGGATCTGTCTGCCGAGGACTTCTCAAGGTATTTGCCATGTCCCCTGAAGAGTTTGGCAAGCTG
GCTCTGTGGAAGCGGAATGAGCTCAAGAAGAAGGCCTCTCTCTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237878  
 Blue=ORF Red=Cloning site Green=Tag(s)

MERLQKQPLTSPGSVSPSRDSSVPGSPSSIVAKMDNQVLGYKDLAAIPKDKAILDIERPDLMIYEPHFT  
 YSLLLEHVELPRSRERSLSPKSTSPPPSPEVWADSRSPGIISQASAPRTTGTPTSLPHFHPETSRPDS  
 NIYKPPPIYKQRESVGGSPQTKHLIEDLIIESSKFPAAPDPNPQPAKIE TDYWPCPPSLAVVETEWK  
 RKASRRGAE EEEEEEDDDSGEEMKALRERQREELSKVTSNLGKMILKEEMKSLPIRRKTRSLPDRTPF  
 HTSLHQGTSKSSSLPAYGRTTSLRQLSTEFSPSGSETGSPGLQIYPYEMLVVTNKGRTKLPPGVDRMRL  
 ERHLSAEDFSRVFAMSPEEFGLALWKRNELKKKASLF  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001302816

**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).

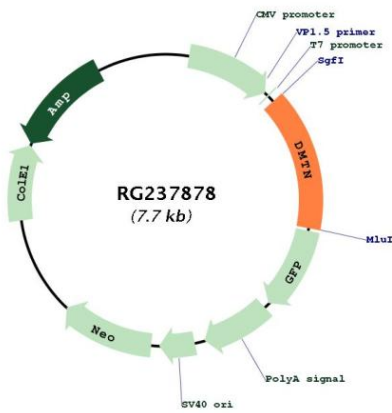
**RefSeq:** [NM\\_001302816.3](#)

**RefSeq Size:** 2754 bp

RefSeq ORF: 1152 bp  
 Locus ID: 2039  
 UniProt ID: [Q08495](https://www.uniprot.org/uniprot/Q08495)  
 Cytogenetics: 8p21.3  
 MW: 43.5 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]

**Product images:**



Circular map for RG237878