

Product datasheet for **RG237740**

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:	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:	>RG237740 representing NM_001302817. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGGAACGGCTGCAGAAGGCCAAGATGGACAATCAGGTGCTGGGCTACAAGGACCTGGCTGCCATCCCC
AAGGACAAGGCCATCCTGGACATCGAGCGGCCCGACCTCATGATCTACGAGCCTCACTTCACTTATTCC
CTCCTGGAACACGTGGAGCTGCCTCGCAGCCGCGAGGTGTGGGCGGACAGCCGGTCGCCTGGAATCATC
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GAGACAGAATGGAGGAAGCGGAAGGCGTCTCGGAGGGGAGCAGAGGAAGAGGAGGAGGAAAGATGAC
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CCTGACCGGACACCCTTCCATACCTCCTTGACCAGGGAACGTCTAAATCTTCTCTCTCCCGCCTAT
GGCAGGACCACCCTGAGCCGGCTACAGTCCACAGAGTTCAGCCCATCAGGGAGTGAGACTGGAAGCCCA
GGCCTGCAGAACGAGAGGGCCAGAGGGGAGGATGGACCGGGGAACTCCCTGCCCTGTGTGCTGGAG
CAGAAGATCTATCCCTATGAAATGCTAGTGGTGACCAACAAGGGGCGAACCAAGTCCACCAGGGGGTG
GATCGGATGCGGCTTGAGAGGCATCTGTCTGCCGAGGACTTCTCAAGGGTATTGGCCATGTCCCCTGAA
GAGTTTGCAAGCTGGCTCTGTGGAAGCGGAATGAGCTCAAGAAGAAGGCCTCTCTCTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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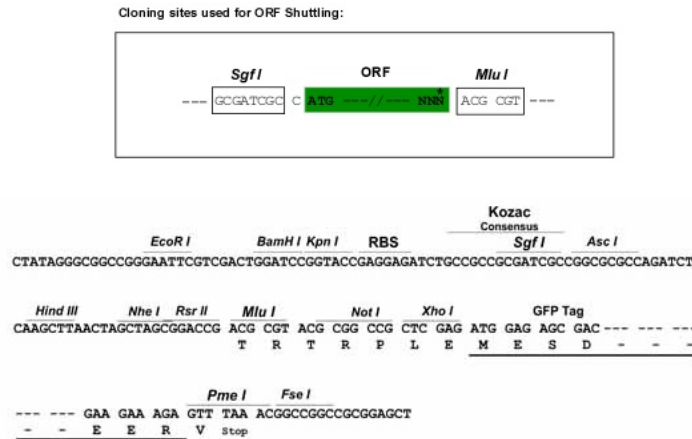
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237740
 Blue=ORF Red=Cloning site Green=Tag(s)

MERLQKAKMDNQVLGYKDLAAIPKDKAILDIERPDLMIYEPHFYSLLEHVELPRSRVWADSRSPGII
 SQASAPRTTGTPTSLPHFHPETSRPDSNIYKPPYKQRESVGGSPQTKHLIEDLIISSKFPAAPQ
 PDPNQPAKIEDYWPCCPSLAVVETEWKRKASRRGAEEDDDSGEEMKALRERQREELSKVTSN
 LGKMLKEEMEKSLPIRRKTRSLPDRTPFHTSLHQGTSKSSSLPAYGRTTLSRLQSTEFSPSGSETGSP
 GLQNGEGQRGRMDRGNLSLPCVLEQKIYPYEMLVVTNKGRTKLPVGVDRMLRHLAEDFSRVFAMSPE
 EFGKLALWKRNELKKKASLF
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001302817

ORF Size: 1095 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).

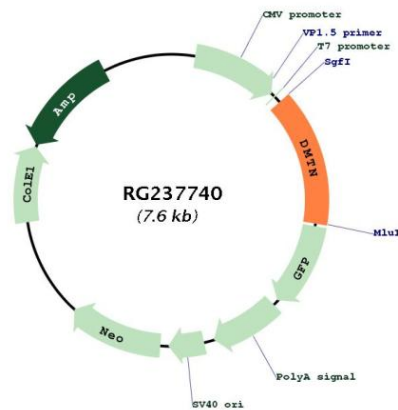
RefSeq: [NM_001302817.3](#)

RefSeq Size: 2539 bp

RefSeq ORF: 1098 bp
Locus ID: 2039
UniProt ID: [Q08495](#)
Cytogenetics: 8p21.3
MW: 42 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 RG237740