

## Product datasheet for **SC126020**

### Dematin (DMTN) (BC017445) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dematin (DMTN) (BC017445) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dematin
Synonyms:	dematin; DMT; erythrocyte membrane protein band 4.9; erythrocyte membrane protein band 4.9 (dematin); FLJ78462; FLJ98848
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC017445 edited
GTTGCCTGGTTGTGAGAGTCAGGGGAGCAGGGACAGGTCCAAGACAAGGAAGGCAGTTGG
GCTGTGGGAATGGGGAGCCCAGGGAAAGGCTCCAGAGCTGGCCTGGAGAGTCACCGCCGA
GGGATGAGGACGCGCCAGCCCGGGGAACGCGCCAGCTGCTTTCGCGGCCCAAGCGCGC
AGTGCCACAGCAGCCGCGCCGAGCCTGACACGCTGTCTCTCCCTCGCGCACAGGGCTCT
GCGAGTAGACCCGGCGGGGAGCTCCGTGCTGCATGGAACGGCTGCAGAAGCAACCATTA
CCTCCCCCGGAGCGTGAGCCCTCCCGAGATCCAGTGTGCTGGCTCTCCCTCCAGCA
TCGTGGCCAAGATGGACAATCAGGTGCTGGGCTACAAGGACCTGGCTGCCATCCCCAAGG
ACAAGGCCATCCTGGACATCGAGCGGCCGACCTCATGATCTACGAGCCTCACTTCACTT
ATTCCCTCCTGGAACACGTGGAGCTGCCTCGCAGCCGCGAGCGCTCGCTGTACCCAAAT
CCACATCCCCCACCATCCCCAGAGGTGTGGCGGACAGCCGGTGCCTGGAATCATCT
CTCAGGCTCGGCCCCAGAACCACTGGAACCCCGGACCAGCCTGCCCATTTCCACC
ACCCTGAGACCTCCCGCCAGATTCCAACATCTACAAGAAGCCTCCCATCTATAAGCAGA
GAGAGTCCGTGGGAGGCAGCCCTCAGACCAAGCACCTCATCGAGGATCTCATCATCGAGT
CATCCAAGTTTCTGCAGCCAGCCCCAGACCCCAACCAGCCAGCCAAAATCGAAACCG
ACTACTGGCCATGCCCCCGTCTCTGGCTGTGTGGAGACAGAATGGAGGAAGCGGAAGG
CGTCTCGGAGGGGAGCAGAGGAAGAGGAGGAGGAGGAAGATGACGACTCTGGAGAGGAGA
TGAAGGCTCTCAGGGAGCGTCAGAGAGAGGAAGTCAAGTAAAGTACTTCCAACTTGGAA
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TGCTGACCGGACACCCTTCCATACCTCCTTGACCCAGGGAACGTCTAAATCTTCTCTC
TCCCCGCTATGGCAGGACCACCCTGAGCCGGCTACAGTCCACAGAGTTCAGCCCATCAG
GGAGTAGACTGGAAGCCAGGCTGCAGAACGGAGAGGGCCAGAGGGGAGGATGGACC
GGGGAACTCCCTGCCCTGTGTGCTGGAGCAGAAGATCTATCCCTATGAAATGCTAGTGG
TGACCAACAAGGGCGAACCAAGCTGCCACCGGGGTGGATCGGATGCGGCTTGAGAGGC
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TGGCTCTGTGGAAGCGAATGAGCTCAAGAAGAAGGCCTCTCTCTGTATGGCCCCAC
CTGCTCCGGGACGGCCCCCTTACCCTGCTGCTCAGGGTTTTTCCCGCGGGTTGGGA
GGGGCAGGAGTGGGGTGAAGTGGGTGGGCTCCTTCTCAGGTAGAGTGGGGGGCCA
AAACCTCTGCAGTCCCCGCGAGTATGGACTTTCTCCCCCTCACAAGGCTGGGGG
CCTCTGCTCTCGTCCCTGGCCCTCCCTGCACAGGGCAAAGCCAGTCTGGGCTCTGGCAC
ACAGAGTTCATGTTTGCGCCCTCCTCTGCCCTCACCCAGAGGTTGAGGAGGAATGAG
GGGCATTTGGTGGTTAGGCCGGTTGGCTGTCTTGAACAGCTGGAGGGAAGATGCAGGGGTG
GGAAGCGGCCAGGCAGAAAGAGCTCCAGGCTCTTGTGTGCCACCCAGCCCTCCATAC
TCACTCCTGACAGCTTCTCTGACTGCAGCTTCTGCTCCTCTGACTCTAGTGGGAACAG
GCCCCAGCTCAGCCTCCGGCAGGGAGGTCAACCCCTCCACTTCCAGCTTGCCTGACCTCCG
CTCGCAAACCCGAGCTTCCAAGCCTTTTGTCCAGCCCTGCGGCTTCCCAGAAAGCCTG
GGCTTAGGGTGGAGATGCCGCCTACACACGATCCTGGCCCTCCACTGCCTCCAGGCCAC
GAAATGGGAATTCAGACTAAGCCAGGCACCGGGCAGAAGCTGGGCCTTCCGCTCCCT
TGGATGGGGTCAAGAGGCCAGGCTGGCACATTTTGGAGTGTCTGGCTACCAGCTTCA
CCTACACCCACGCACCCCCACACACTATGCTCTCTCAAGAATGTAATTTATTGGGGCC
CCCCCAGCTGCTTCTCACCTGCCCTGCCCTACCTTACACCCCAAGCTTACTTCTT
TCCAGTCCACGTGTATATAATGATATCTATATTTTGGCCAGGTCTGGGTATTGCTCC
TGCCAGACCCTGACATCCCTTCCACTGTGTGTGACCATGCTGGGGGAGGGGACTC
TGCTTGAATTAAGGTTGCATTGGGTCCCTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC017445 unedited ACGTCAGCCAACCTTTGTAATACGAACCTCACTATAGTGGCGGCCCGCGTAATTCGCGCAC GAGGGCTTGCACTGGTCTGCTGAGAAGCTCAGGGGNAGCCAGGGNACAGGTTCCAAGACA AGGAAGGCAGTTGGGCTGTGGGAATGGGGAGCCAGGGAAAGGCCTCCAGAGCTGGCCTGG AGAGTCACCGCCGAGGGATTGAGGACGCGCCAGCCGGGGGAACGCGCCAGCTGCTTTCCG CGGCCCCAAGCGCGCAGTGCCCAGCAGCCGCGCCGAGCCTGACACGCTGTCCTCTCCCCT CGCGCACAGGGCTCTGCGAGTGACCCGGCGGGGAGCTCCGTGCTGCATGGAACGGCTGC AGAAGCAACCACTTACCTCCCCGGGAGCGTGAGCCCCTCCCGAGATTCCAGTGTGCCTG GCTCTCCCTCCAGCATCGTGGCCAAGATGGACAATCAGGTGCTGGGCTACAAGGACCTGG CTGCCATCCCCAAGGACAAGGCCATCCTGGACATCGAGCGGCCCGACCTCATGATCTACG AGCCTCACTTCACTTATTCCTCCTGGAACACGTGGAGCTGCCTCGCAGCCGCGAGCGCT CGCTGTCAACCAATCCACATCCCCCCCACCATCCCCAGAGGTGTGGGCGGACAGCCGT CGCCTGGAATCATCTCTCAGGCCTCGGCCCCAGAACCACTGGAACCCCCCGACCAGCC TGCCCCATTTCCACCACCCTGAGACCTCCCGCCAGATTCCAACATCTACAAGAAGCCTC CCATCTATAAGCAGAGAGAGTCCGTGGGAGGCAGCCCTCAGACCAAGCACCTCATCGAGG ATCTCATCATCGAGTCATCCAAGTTTTCTGCAGCCAGCCCCAGACCCAACCAGCCAG CCAAAATCGAAACCGACTACTGGCCATGCCCCCGTCTCTGGCTGTTGTGAGACAGAAT GGAGAGCC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC017445
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">BC017445.1</a></u> , <u><a href="#">AAH17445.1</a></u>
<b>RefSeq Size:</b>	2585 bp
<b>Locus ID:</b>	2039
<b>Cytogenetics:</b>	8p21.3

**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]