

Product datasheet for **SC125826**

Dematin (DMTN) (BC052805) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dematin (DMTN) (BC052805) 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>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC052805 edited
GTGACCTTGTGGGAAAGGAGCCAAGAACGGGGCGTCGGGGGGCCTGGGACCCCCCTGCC
TGAGAGATACAGGAATCCTGGCCCCGTGTTGTGGACACAAGCGCCATCCTCAAGGTCT
GAGAACTCTGAACCTCCAAAGCCTGGAGAGTACCCGCGAGGGATGAGGACGCGCCAGC
CCGGGGAAACGCGCCAGCTGCTTTCGCGGCCCAAGCGCGCAGTGCCAGCAGCCGCGCC
GAGCCTGACACGCTGTCTCTCCCTCGCGCACAGGGCTCTGCGAGTGACCCGGCGGGCG
AGCTCCGTGCTGCATGGAACGGCTGCAGAAGCAACCACTTACCTCCCCGGGAGCGTGAG
CCCTCCCGAGATTCCAGTGTGCCTGGCTCTCCCTCCAGCATCGTGGCCAAGATGGACAA
TCAGGTGCTGGGTACAAGGACCTGGCTGCCATCCCCAAGGACAAGGCCATCCTGGACAT
CGAGCGGCCGACCTCATGATCTACGAGCCTCACTTTACTTATTCCCTCCTGGAACACGT
GGAGCTGCCTCGCAGCCGCGAGCGCTCGCTGTCACCCAAATCCACATCCCCCCCACCATC
CCCAGAGGTGTGGGCGGACAGCCGGTGCCTGGAATCATCTCTCAGGCCTCGGCCCCAG
AACCACTGGAACCCCCGGACCAGCCTGCCCATTTCCACCACCCTGAGACCTCCCGCCC
AGATTCCAACATCTACAAGAAGCCTCCCATCTATAAGCAGAGAGAGTCCGTGGGAGGCAG
CCCTCAGACCAAGCACCTCATCGAGGATCTCATCATCGAGTCATCAAGTTTCTGCAGC
CCAGCCCCCAGACCCCAACCAGCCAGCCAAAATCGAAACCGACTACTGGCCATGCCCCCC
GTCTCTGGCTGTTGTGGAGACAGAATGGAGGAAGCGGAAGGCGTCTCGGAGGGGAGCAGA
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TCAGAGAGAGGAACTCAGTAAGGTTACTTCCAACCTGGGAAAGATGATCTTGAAAGAAGA
GATGGAAAAGTCATTGCCGATCCGAAGGAAAACCCGCTCTCTGCCTGACCCGACACCCTT
CCATACCTCCTTGACCAGGGAACGTCTAAATCTTCTCTCTCCCCGCTATGGCAGGAC
CACCTGAGCCGGCTACAGTCCACAGAGTTCAGCCATCAGGGAGTGAGACTGGAAGCCC
AGGCCTGCAGATCTATCCCTATGAAATGCTAGTGGTGACCAACAAGGGGGCAACCAAGCT
GCCACCGGGGTGGATCGGATGCGGCTTGAGAGGCATCTGTCTGCCGAGGACTTCTCAAG
GGTATTTGCCATGTCCCTGAAGAGTTTGGCAAGCTGGCTCTGTGGAAGCGGAATGAGCT
CAAGAAGAAGGCCTCTCTTCTGATGGCCCCACCTGCTCCGGGACGGCCCCCTTACCC
CTGCTGCTCAGGGTTTTTCCCCGGCGGTTGGGAGGGGCAGGAGGTGGGGTGGAAATAG
GGTGGGCTCCTTCTCAGGTAGAGTGGGGGGCCAAAACCTCTGCAGTCCCCGGCAGTGA
GCTATGGACTTTCTTCCCTCACAAAGGCTGGGGGCTCTGCTCTCGTCCCTGGCCCTC
CCTGCACAGGGCAAAGCCAGTCTGGGCTCTGGCACACAGATTTCATGTTTGGCCCTCTC
CCTGCCCTCACCCAGAGGGTGAGGAGGAATGAGGGGCATTGGTGGTTAGGCCGTTGG
CTGCTTGAACAGCTGGAGGGAAGATGCAGGGGTGGGAAGCGGCCAGGCAGAAAGAGCTC
CAGGCTCTTGTGTCGCCACCCAGCCCTCCCATACTCACTCCTGACAGCTTCTCCTGCACT
GCAGCTTCTGCTCCTCTGACTCTAGTGGGAACAGGCCCCAGCTCAGCCTCCGGCAGGGA
GGTCAACCCTCCACTTACAGTTGCCCTGACCTCCGCTCGCAAACCCCGAGCTTCCAAGCC
TTTTGCTCCAGCCTGCGGCTTCCCCAGAAGCCTGGGCTTAGGGTGGAGATGCCGCTAC
ACACGATCCTGGCCCTCCACCTGCCTCCAGGCCACGAAATGGGAATTCAGCACTAAGCC
AGGCACCGGGCAGAAGCTGGGCCCTCCGCTCCCTTGGATGGGGTCAAGAGGCCAGGCT
GGCACATTTTGGAGTGTCTGGCTACCAGCTCTCACCTACACCCACGACCCCCCACAC
ACTATGCTCTCTCAAGAATGTAATTTATTGGGGCCCCCAGCTGCTTTCCTCACCTGCC
CCTGCCCTACCTTACACCCAGCTTACTTCTTCCAGTCCACGTGTGTATATAATGAT
ATCTATATTTTTGCCAGGTCTGGGATTGCTCCTGCCAGACCTGACATCCCTTTCCA
CTGTGTGTGTGACCATGTGGGGAGGGGGACTCTGCTTGGAAATAAAAGGTTGCATTGG
GTCCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC052805 unedited GTCAAATATTTGTATACGACTACTATAGGCGGACCGGAATTCGCACGAGGGTGACCTT GTGGGAAAGGAGCCAAGAACGGGGCGTCGGGGGGCCTGGGACCCCCCTGCCTGAGAGAT ACAGGAATCCTGGCCCCGTGTTGTGGACACAAGCGCCATCCTCAAGGTCTGAGAACTC CTGAACTCCAAGCCTGGAGAGTCACCGCCGAGGGATGAGGACGCGCCAGCCCGGGGA ACGCGCCAGCTGCTTTCGCGGCCCAAGCGCGCAGTGCCAGCAGCCGCGCCGAGCCTGA CACGCTGTCCTCTCCCTCGCGCACAGGGCTCTGCGAGTGACCCGCGGGCGAGCTCCGT GCTGCATGGAACGGCTGCAGAAGCAACCACTTACCTCCCCGGGAGCGTGAGCCCCCTCC GAGATTCCAGTGTGCTGCTCTCCCTCCAGCATCGTGGCCAAGATGGACAATCAGGTGC TGGGCTACAAGGACCTGGCTGCCATCCCCAAGGACAAGGCCATCCTGGACATCGAGCGGC CCGACCTCATGATCTACGAGCCTCACTTACTTATTCCCTCCTGGAACACGTGGAGCTGC CTCGCAGCCGCGAGCGCTCGCTGTACCCAAATCCACATCCCCCCCACCATCCCCAGAGG TGTGGCGGACAGCCGGTCGCTGGAATCATCTCTCAGGCCTCGGCCCCAGAACCCTG GAACCCCGGACAGCCTGCCCATTTCCACCACCCTGAGACCTCCCGCCAGATTCCA CATCTACAAGAAGCCTCCCATCTATAAGCAGAGAGAGTCCGTGGGAGGCAGCCCTCAGAC CAGGCACTCATCGAGATCTCATCATCGAGTCATCCAGTTTCCTGCAGCCACCCCCAG ACCCAACAGCCAGCCAAATCGAAACCGCTACTGGCCATGCCCCA
Restriction Sites:	Please inquire
ACCN:	BC052805
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none"> 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:	BC052805.1 , AAH52805.1
RefSeq Size:	2579 bp
Locus ID:	2039
Cytogenetics:	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]