

Product datasheet for **SC123195**

DENND1B (NM_144977) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DENND1B (NM_144977) Human Untagged Clone
Tag:	Tag Free
Symbol:	DENND1B
Synonyms:	C1ORF18; C1orf218; FAM31B
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF:

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>OriGene sequence for NM_144977 edited
GGTGGGGCCGGACGGACAGCCCCACCCGACATGTAACCATGGACTGCAGGACCAAGGC
AAATCCAGACAGAACCTTTGACTTGGTGTGAAAGTGAATGTCATGCCTCTGAAATGA
AGAGGACAGTCCAGCTTATCTGCCGAGGATCCCCCTGGAAAAGTACGCCGATTCGCATT
TTGCATTAAGAACTGGAAAACCTTCTGTCCGGTCTGGCGTAGCGCCTCCCGTGTCCGG
GGTAGACCTTGTACCGGCTGAAACCGCATAGCTCGACCTTCATGGCGGCAGCTCCACGGG
AGGAGAAAAGATGGCCCCAACCTGTATTTTCGAATCCTGTGGTATTGTGGAAATCCCAG
AGGACTTTGGAGACCAGGAAATACTACAGAGTGTGCCAAAGTTCTGTTTTCCCTTTGACG
TTGAAAGGGTGTCTCAGAAATCAAGTTGGACAGCACTTTACCTTTGACTGACAGACATTG
AAAGTAAACAGAGATTTGGATTCTGCAGACTGACGTGAGGAGGCACAATTTGTTTATGCA
TCCTTAGTTACCTTCCCTGGTTTGAAGTGTATTACAAGCTTCTAAATACTTGCAGATT
ACTTGGCTAAGGAACTGGAAAATGATTTGAATGAAACTCTCAGATCACTGTATAACCACC
CAGTACCAAAGGCAAATACTCCTGTAATTTGAGTGTGCATTCTACTTCATTGCCCTG
ATGTAAGTGGACTCCCAACAATACCCGAGAGTAGAAATCTTACAGAATATTTTGTGCCG
TGGATGTGAACAACATGTGCAGCTGTATGCCAGTATGCTGCATGAAAGGCGCATCGTGA
TTATCTCGAGCAAATTAAGCACTTAACTGCCTGTATCCATGGATCAGCTGCTCTCTAT
ACCCAATGTATTGGCAACACATATACATCCCAGTGCTTCCCTCCACACCTGCTGGACTACT
GCTGTGCCCAATGCCATACCTGATTGGAATACACTCCAGCCTCATAGAGAGAGTAAAA
ACAAATCATTGGAAGATGTTGTTATGTTAAATGTTGATACAAACACATTAGAATCACCAT
TTAGTGACTTGAACAACCTACCAAGTGTGTGGTCTCGGCCTTAAAAATAAACTGAAGA
AGCAGTCTACAGTACGGGTGATGGAGTAGCTAGGGCCTTCTTAGAGCACAGGCTGCTT
TGTTTGGATACTACAGAGATGCACTGAGATACAAACCTGGTGAGCCCATCACTTTCTGTG
AGGAGAGTTTTGTAAAGCACCGCTCAAGCGTGATGAAACAGTTCCTGGAACTGCCATTA
ACCTCCAGCTTTTTAAGCAGTTTTATCGATGGTCTGACTGGCAAACTAAATGCAGGAAGGG
GTTTCTCTGATGTATTTGAAAGAGAGATCACTCAGGTGGCTTTTGTGGAGGTAAAGACA
AGTTACAATATGATTATCCATTTTCTCAATAACAATTTTCTTGGTCTTTGCACTTGTGTC
TGATAAACCTATTTCAAAACAACTAATGATTTCCCTCAAATATGTAATGTCTTAAAT
ACATTTTTCATCTTATAAAAGCTATGGAATTAGCTTATTTTGCCTGATACCTGTTACTCA
AGGCATTAAGTTGGCCTCCTGAATTGGCAGCTGTTGGCCTCGATAATCTCTTAATATTGC
TGGAAATTAGTAATACAGAAATCCAGTCAACTCATATCTTCTGTCTTTCCTTCTGAATA
GTAGTATTCTCTGCTAGAAAACCTACTAGTATGTTTATTACTGAGTATGAATTTAAGAAC
TGAGGTTATGATTGGTAATACAATCCAAAAAGAAGGGTCTGAACACCAAATTTCTTATA
CATATTTAAGTAACTGTATTATTATTATACAGATGCTTTACCTTTTGGACTTTATAGAT
CACTGCAGCATTAAAGAAAGTTTCCAGTTTACCATTCCATAAGTACAATTAATCCTTCTAG
TGTAATGTTCAAATACTGTTATAATTATCTAGGCAATTAATAATTTACAAACTGATATT
TTTGCACGATTGTAGTGGTGTATAGTCTTGACTTGACAGAGCATTTTGGCTTGAGTCCTTGA
AATGTCGTGTTTCAATCATTATTTGCTGAGTGCTTACAATGTATTAGGCACTGTTCTAAAT
ATTAAGTGTACTAAATAAACAAAAATCCTTGATTCTGAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_144977 unedited GGTTGACACAACTGGCATTGTTAGCGCCACATACTTGATAGGGCGGCAAGCACAACTT CGTATAGCATACATTATACTAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGT CGAGAGCGGGGTGGGGCCGGACGGACAGCCCCACCCGACATGTAACCATGGACTGCAG GACCAAGGCAAATCCAGACAGAACCTTTGACTTGGTGTGAAAGTGAAATGTCATGCCTC TGAAAATGAAGAGGACAGTGGGCTTATCTGCCGAGGATCCCCCTGAAAAGTACGCCG ATTCGCATTTTGCATTAAGAAACTGGAAAACCTTTCCTGTCGGTCTGGCGTAGCGCTCC CGTGTCGGGGTAGACCTTGTACCGCTGAAACCGCATAGCTCGACCTTCATGGCCGCGAG CTCCACGGGAGGAGAAAAGATGGCCCCAACCTGTATTTTGAATCCTGTGGTATTGTGGA AATTCCCAGAGGACTTTGGAGACCAGGAAATACTACAGAGTGTGCCAAAGTTCTGTTTTT CCTTTGACGTTGAAAGGGTGTCTCAGAATCAAGTTGGACAGCACTTTACCTTTGACTGA CAGACATTGAAAGTAAACAGAGATTTGGATTCTGCAGACTGACGTCAGGAGGCACAATTT GTTTATGCATCCTTAGTTACCTCCCTGGTTTGAAGTGTATTACAAGCTTCTAAATACTC TTGAGATTACTTGGCTAAGGAACTGGAAAATGATTTGAATGAACTCTCAGATCACTGT ATAACCCAGTACCAAAGGCAAATACTCCTGTAATTTGAGTGTGCATTCTACTTCA TTGCCCTGATGTAAGTGGACTCCCAACATACCCGAGAGTAGAAATCTTACAGAATATTT TGTTGCCG
Restriction Sites:	Please inquire
ACCN:	NM_144977
Insert Size:	2213 bp
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:	<u>NM_144977.1</u> , <u>NP_659414.1</u>
RefSeq Size:	2380 bp
RefSeq ORF:	1191 bp
Locus ID:	163486
UniProt ID:	<u>Q6P3S1</u>
Cytogenetics:	1q31.3
Protein Families:	Transmembrane

Gene Summary:

Clathrin (see MIM 118955)-mediated endocytosis is a major mechanism for internalization of proteins and lipids. Members of the connecdenn family, such as DENND1B, function as guanine nucleotide exchange factors (GEFs) for the early endosomal small GTPase RAB35 (MIM 604199) and bind to clathrin and clathrin adaptor protein-2 (AP2; see MIM 601024). Thus, connecdenns link RAB35 activation with the clathrin machinery (Marat and McPherson, 2010 [PubMed 20154091]).[supplied by OMIM, Nov 2010]

Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR, compared to variant 3. The resulting isoform (2) has a distinct C-terminus and is shorter than isoform 3.