

## Product datasheet for **RC231411**

### **DENND1B (NM\_001195215) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DENND1B (NM_001195215) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DENND1B
Synonyms:	C1ORF18; C1orf218; FAM31B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC231411 representing NM\_001195215  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACTGCAGGACCAAGGCAAATCCAGACAGAACCTTTGACTTGGTGTGAAAGTGAAATGTCATGCCT  
 CTGAAAATGAAGATCCTGTGGTATTGTGAAAATCCCAGAGACTTTGGAGACCAGGAAATACTACAGAG  
 TGTGCCAAAGTTCTGTTTTCCCTTTGACGTTGAAAGGGTGTCTCAGAATCAAGTTGGACAGCACTTTACC  
 TTTGACTGACAGACATTGAAAGTAAACAGAGATTTGGATTCTGCAGACTGACGTGAGGAGCACAATTT  
 GTTTATGCATCCTTAGTTACCTCCCTGGTTTGAAGTGTATTACAAGCTTCTAAATACTCTTGAGATTA  
 CTTGGCTAAGGAACTGGAAAATGATTTGAATGAACTCTCAGATCACTGTATAACCAACCCAGTACCAAAG  
 GCAAATACTCCTGTAATTTGAGTGTGAACCAAGAGATATTTATGCCTGTGAGCAAGTTCTGAAAGATC  
 AGCCTGCTCTAGTACCGCATTCTACTTATTGCCCTGATGTAAGTGGACTCCCAACAATACCCGAGAG  
 TAGAAATCTTACAGAATATTTTGTGCCGTGGATGTGAACAACATGCTGCAGCTGTATGCCAGTATGCTG  
 CATGAAAGGCGCATCGTGATTATCTCGAGCAAATTAAGCACTTTAACTGCCTGTATCCATGGATCAGCTG  
 CTCTTCTATACCAATGTATTGGCAACACATATACATCCCAGTGCTTCTCCACACCTGCTGGACTACTG  
 CTGTGCCCAATGCCATACCTGATTGGAATACACTCCAGCCTCATAGAGAGAGTGAAAAACAATCATTG  
 GAAGATGTTGTTATGTTAAATGTTGATACAAAACACATTAGAATCACCATTTAGTGACTTGAACAACCTAC  
 CAAGTGATGTGGTCTCGGCCTTGAAAAATAAAGTGAAGAAGCAGTCTACAGCTACGGGTGATGGAGTAGC  
 TAGGGCCTTTCTAGAGCACAGGCTGCTTTGTTGGATCCTACAGAGATGCACTGAGATACAAAACCTGGT  
 GAGCCCACACTTTCTGTGAGGAGAGTTTTGTAAGCACCGCTCAAGCGTGTGAAACAGTTCCTGGAAA  
 CTGCCATTAACCTCCAGCTTTTTAAGCAGTTTTATCGATGGTTCGACTGGCAAACTAAATGCAGGAAGGGG  
 TTTCTCTGATGATTTGAAGAAGAGATCACTTCAGGTGGCTTTTGTGGAGGGAACCCGAGGTCATATCAA  
 CAATGGGTGCATACAGTCAAGAAAGGAGGTGCACTGTTCAACACAGCAATGACCAAGCAACCCCTGCTG  
 TACGGACAGCATATAAATTTGCAAAAAATCATGCAAAGCTGGGACTAAAGGAAGTGAAGAGTAAACTAAA  
 ACACAAGGAAAATGAAGAAGATTATGGGACCTGTTCTAGTTCTGTACAATATACACCAGTTTACAAATTA  
 CACAATGAAAAGGGAGGAAACTCAGAAAAGCGTAAGCTTGCTCAGGCACGCTTAAAAAGCCTCTTAAGA  
 GCCTTGATGGTGTCTATATGATGATGAAGATGATGATGACATTGAAAGAGCAAGCAAGTATCTTCTGA  
 AGATGGTGAAGAAGCTTCTGCTTATCTCTATGAGAGTATGACTCTGTTGAAACAAGAGTGAAGACTCCT  
 TACTCAGGTGAAATGGACTTACTAGGAGAGATTCTTGATACATTGAGCACACACAGCTCAGATCAGGGGA  
 AGCTGGCAGCTGCAAAGAGCTTGGATTTCTTTAGATCAATGGATGACATTGATTACAAAACCTACGAATAA  
 ATCTAATGCTCCTAGTGAGAATAACCTGGCTTCTCTGTGGTGGTTCTGGTGACCAAGCAGAGTGGAAAT  
 CTTGGGCAAGACGATAGTGCCCTCCATGGCAAACACCTCCCTCCATCTCCTAGGAAGCGGGTTTCTCTA  
 GTGGTTTGACAGATTCTCTGTTTATCCTGAAAGAGGAAAACAGTAACAAGCACCTCGGTGCTGACAAATGT  
 GAGTGACCCTACTTCAGGACTGGATTTCCAACCTCACTTCCCCTGAAGTTTCCAGACTGATAAAGGAAAA  
 ACAGAAAAGAGGGAAACACTAAGCCAGATTTAGATGATCTGCTTATACCCGGTCTTGGGCGGCATTTCAT  
 CGACTTTTGTTCCTTGGGAGAAAAGGAAAGCAAGCAAGACTTCAAGAATATTGGACTGCTCCA  
 TGAAGTAGTGTCATTATGTCATATGACATCTGACTTCCAACAAAGCTTGAACATTTAGACAAAAACACA  
 AATGAAAACCAAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231411 representing NM\_001195215  
Red=Cloning site Green=Tags(s)

MDCRTKANPDRTFDLVLKVKCHASENEDPVVLWKFPEDFGDQEILQSVPKFCFPFDVERVSQNQVGQHF  
FVLTDIESKQRFQFCRLTSGGTICLCILSYLPWFVEVYKLLNTLADYLAKELENDLNETLRSLYNHPVPK  
ANTPVNLSVNQEIFIACEQVLKDQPALVPHSYFIAPDVTGLPTIPESRNLTEYFVAVDVNNMLQLYASML  
HERRIVIISSKSLTLTACIHGSAALLYPMYWQHIIYIPVLPPhLLDYCCAPMPYLIGIHSSLIERVKNKSL  
EDVVMLNVDNTLESPFSDLNLPDVSALKNKLLKQSTATGDGVARAFLRAQAALFGSYRDALRYKPG  
EPITFCEESFVKHRSSVMKQFLETAINLQLFKQFIDGRLAKLNAGRGFSDVFEEETSGGFCGGNPRSYQ  
QWVHTVKKGGALFNTAMTKATPAVRTAYKFAKNHAKLGLKEVSKLKHKENEEDYGTSSSVQYTPVYKL  
HNEKGGNSEKRKLAQARLKRPLKSLDGALYDEDDDDIERASKLSEEDGEASAYLYESDDSVETRVKTP  
YSGEMDLLGEILDTLSTHSSDQGLAAAKSLDFFRSMDDIDYKPTNKSNAPENNLAFLCGGSGDQAEWN  
LGQDSDALHGKHLPPSPRKRVS SGLTDSLFI LKEENS NKHLGADNVSDPTSGLDLDFQLTSPEVSQTDKGG  
TEKRETL S QISDDL LIPGLGRHSSTFVPWEKEGKEAKETSEDIGLLHEVVS LCHMTSDFQQSLNISDKNT  
NGNQ T

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001195215

**ORF Size:** 2325 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).

**Reconstitution Method:**

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:** [NM\\_001195215.2](#)

**RefSeq ORF:** 2328 bp

**Locus ID:** 163486

**UniProt ID:** [Q6P3S1](#)

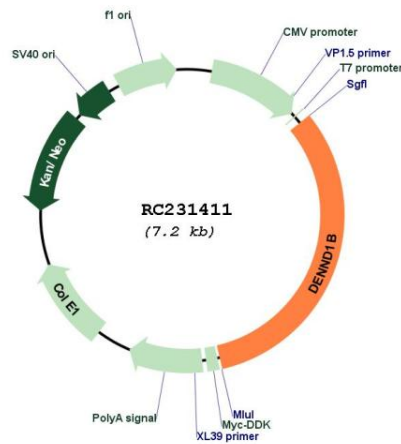
**Cytogenetics:** 1q31.3

**Protein Families:** Transmembrane

**MW:** 87 kDa

**Gene Summary:** Clathrin (see MIM 118955)-mediated endocytosis is a major mechanism for internalization of proteins and lipids. Members of the connectin 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, connectinns link RAB35 activation with the clathrin machinery (Marat and McPherson, 2010 [PubMed 20154091]).[supplied by OMIM, Nov 2010]

### Product images:



Circular map for RC231411