

Product datasheet for **RC229214**

DENND1B (NM_144977) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DENND1B (NM_144977) 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:

>RC229214 representing NM_144977
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACTGCAGGACCAAGGCAAATCCAGACAGAACCTTTGACTTGGTGTGAAAGTGAAATGTCATGCCT
 CTGAAAAATGAAGATCCTGTGGTATTGTGAAAATCCCAGAGGACTTTGGAGACCAGGAAATACTACAGAG
 TGTGCCAAAGTTCTGTTTTCCCTTTGACGTTGAAAGGGTGTCTCAGAATCAAGTTGGACAGCACTTTACC
 TTTGACTGACAGACATTGAAAGTAAACAGAGATTTGGATTCTGCAGACTGACGTCAGGAGGCACAATTT
 GTTTATGCATCCTTAGTTACCTCCCTGGTTTGAAGTGTATTACAAGCTTCTAAATACTCTTGAGATTA
 CTTGGCTAAGGAACTGAAAAATGATTTGAATGAACTCTCAGATCACTGTATAACCACCCAGTACCAAAG
 GCAAATACTCCTGTAATTTGAGTGTGAACCAAGAGATATTTATGCCTGTGAGCAAGTTCTGAAAGATC
 AGCCTGCTCTAGTACCGCATTCTACTTCACTGCCCTGATGTAAGTGGACTCCCAACAATACCCGAGAG
 TAGAAATCTTACAGAATATTTTGTGCCGTGGATGTGAACAACATGCTGCAGCTGTATGCCAGTATGCTG
 CATGAAAGGCGCATCGTGATTATCTCGAGCAAATTAAGCACTTTAACTGCCTGTATCCATGGATCAGCTG
 CTCTTCTATACCAATGTATTGGCAACACATATACATCCCAGTGCTTCTCCACACCTGCTGGACTACTG
 CTGTGCCCAATGCCATACCTGATTGGAATACACTCCAGCCTCATAGAGAGAGTGAAAAACAATCATTG
 GAAGATGTTGTTATGTTAAATGTTGATACAAACACATTAGAATCACCATTTAGTGACTTGAACAACCTAC
 CAAGTGATGTGGTCTCGGCCTTGAAAAATAAAGTGAAGAAGCAGTCTACAGCTACGGGTGATGGAGTAGC
 TAGGGCCTTTCTAGAGCACAGGCTGCTTTGTTGGATCCTACAGAGATGCACTGAGATACAAACCTGGT
 GAGCCCATCACTTTCTGTGAGGAGATTTTGAAGCACCGCTCAAGCGTGATGAAACAGTTCCTGGAAA
 CTGCCATTAACCTCCAGCTTTTAAAGCAGTTTATCGATGGTCGACTGGCAAACTAAATGCAGGAAGGGG
 TTTCTCTGATGATTTGAAGAAGAGATCACTTCAGGTGGCTTTTGTGGAGGTAAGACAAGTTACAATAT
 GATTATCCATTTTCTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229214 representing NM_144977
 Red=Cloning site Green=Tags(s)

MDCRTKANPDRTFDLVLKVKCHASENEDPVVLWKFPEDFGDQEILQSVPKFCFPFDVERVSQNQVGGHFT
 FVLTDIKSKQRFGFCRLTSGGTICLCILSYLPWFVYVYKLLNLTADYLAKELENDLNETLRSLYNHPVPK
 ANTPVNLVSNQEIFIACEQVLKQDPALVPHSYFIAPDVTGLPTIPESRNLTEYFVAVDVNNMLQLYASML
 HERRIVIISSKSLSTLTACIHGSAALLYPMYWQHIYIPVLPPLLDDYCCAPMPYLIGIHSSLIERVKNKSL
 EDVVMLNVDNTLESFSDLNLPDVSALKNKLLKQSTATGDGVARAFLRAQAALFGSYRDALRYKPG
 EPITFCEESFVKHRSSVMKQFLETAINLQLFKQFIDGRLAKLNAGRGFSDVFEEEEITSGGFCGGKDKLQY
 DYPFSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_144977

ORF Size: 1278 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_144977.5](#)

RefSeq ORF: 1281 bp

Locus ID: 163486

UniProt ID: [Q6P3S1](#)

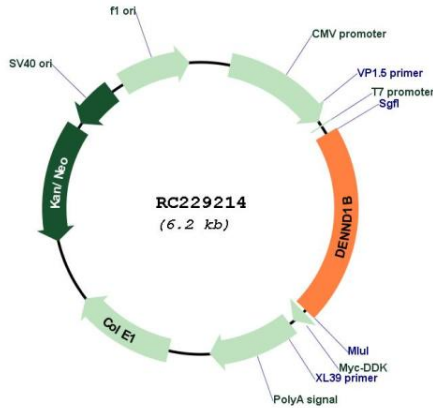
Cytogenetics: 1q31.3

Protein Families: Transmembrane

MW: 48.1 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 RC229214