

Product datasheet for **RC207881**

DENND1A (NM_024820) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DENND1A (NM_024820) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DENND1A
Synonyms:	FAM31A; KIAA1608
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207881 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGGCTCCAGGATCAAGCAGAATCCAGAGACCACATTTGAAGTATATGTTGAAGTGGCCTATCCCAGGA
 CAGGTGGCACTCTTTCAGATCCTGAGGTGCAGAGGCAATTCCTGGAGGACTACAGTGACCAGGAAGTTCT
 ACAGACTTTGACCAAGTTTTGTTCCCTTCTATGTGGACAGCCTCACAGTTAGCCAAGTTGGCCAGAAC
 TTCACATTCGTGCTCACTGACATTGACAGCAAACAGAGATTCGGGTTCTGCCGCTTATCTTCAGGAGCGA
 AGAGCTGCTTCTGTATCTTAAGCTATCTCCCTGGTTCGAGGTATTTATAAGCTGCTTAACATCTGGC
 AGATTACACGACAAAAGACAGGAAATCAGTGAATGAGCTTCTTAACTCTGCACAACTTCCCATC
 CCTGACCCAGGAGTGTCTGTCCATCTCAGCGTGCATTCTATTTTACTGTGCCTGATACCAGAGAACTTC
 CCAGCATACCTGAGAATAGAAATCTGACAGAATATTTTGTGGCTGTGGATGTTAAACAATGTTGCATCT
 GTACGCCAGTATGCTGTACGAACGCCGGATACTCATCATTTGCAGCAAACTCAGCACTCTGACTGCCTGC
 ATCCACGGGTCTGCGGCGATGCTCTACCCCATGTACTGGCAGCACGTGTACATCCCGTGTGCCGCCGC
 ATCTGCTGGACTACTGCTGTGCTCCCATGCCCTACCTCATAGGAATCCATTTAAGTTTAATGGAGAAAGT
 CAGAAACATGGCCCTGGATGATGTCGTGATCCTGAATGTGGACACCAACACCCTGGAAACCCCTTCGAT
 GACCTCCAGAGCCTCCAAACGACGTGATCTTCCCTGAAGAACAGGCTGAAAAAGGTCTCCACAACCA
 CTGGGGATGGTGTGGCCAGAGCGTTCTCAAGGCCAGGCTGCTTCTTCGGTAGCTACCGAAACGCTCT
 GAAATCGAGCCGAGGAGCCGATCACTTTCTGTGAGGAAGCCTTCGTGTCCACTACCGCTCCGGAGCC
 ATGAGGCAGTTCCTGCAGAACGCCACACAGCTGCAGCTCTCAAGCAGTTTATTGATGGTCGATTAGATC
 TTCTCAATTCGGCGAAGGTTTCAGTGATGTTTTGAAGAGGAAATCAACATGGCGAGTACGCTGGCAG
 TGACAAACTGTACCATCAGTGGCTCTCCACTGTCCGAAAGGAAGTGGAGCAATTCGAATCTGTAAAG
 ACCAAAGCAAATCCGGCCATGAAGACTGTCTACAAGTTCGCAAAAGATCATGCAAAAATGGGAATAAAAG
 AGGTGAAAAACCGCTTGAAGCAAAGGACATTGCCGAGAATGGCTGCGCCCCACCCAGAGAGCAGCT
 GCCAAAGACTGCACCGTCCCACTGGTGGAGGCCAAGGACCCCAAGCTCCGAGAAGACCGCGGCCAATC
 ACAGTCCACTTTGGACAGGTGCGCCACCTCGTCCACATGTTGTTAAGAGACCAAGAGCAACATCGCAG
 TGAAGGCCGAGGACGTCTGTGCCGAGCCTGAGCAAAACACCATTGCAACACCAGCTACACTCCACAT
 CCTACAGAAAAGCATTACCCATTTGCGGCCAAGTTCGACGAGAGGCTGGACCTTTCATCACAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207881 protein sequence
 Red=Cloning site Green=Tags(s)

MGSRIKQNPETTFEVYVEVAYPRTGGTLDPEVQRQFPEDYSDQEVLTQTKFCFPFYVDSLTVSQVGQN
 FTFVLTDIDSKQRFGFCRLSSGAKSCFCLSYLPWFVEFYKLLNILADYTTRQENQWNELLETLHKLPI
 PDPGVSVHLSVHSYFTVPDRELPSIPENRNLTEYFVAVDVNNMLHLYASMLYERRILIIICSKLSTLTAC
 IHGSAAMLYPMYQHVYIPVLPPLLIDYCCAPMPYLIGIHLMEKVRNMLDDVVILNVDNTNLETPFD
 DLQSLPNDVISSLKNRLKKVSTTTGDGVARAFLKAQAFFGSYRNALKIEPEEITFCCEAFVSHYRSGA
 MRQFLQATQLQLFKQFIDGRLLNSGEGFSDVFEEEINMGEYAGSKLYHQWLSTVRKSGAILNTVK
 TKANPAMKTVYKFAKDHAHMKIYKVNRLKQKDIAENGCAPTPEEQLPKTAPSPLVEAKDPKLRDRRPI
 TVHFGQVRPPRHVVKRPKSNIAVEGRRTSVPSPEQNTIATPATLHILQKSITHFAAKFPTRGWTSSSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6516_a11.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_024820

ORF Size: 1677 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024820.3](#)

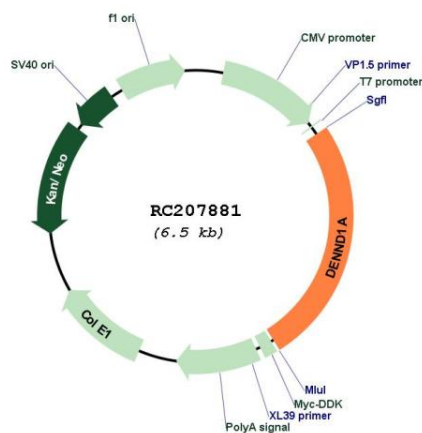
RefSeq Size: 2166 bp

RefSeq ORF: 1680 bp

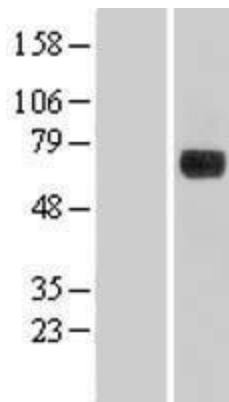
Locus ID: 57706

UniProt ID:	<u>Q8TEH3</u>
Cytogenetics:	9q33.3
Domains:	DENN, dDENN, uDENN
MW:	63.4 kDa
Gene Summary:	Clathrin (see MIM 118955)-mediated endocytosis is a major mechanism for internalization of proteins and lipids. Members of the connectdenn family, such as DENND1A, 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, connectdenns link RAB35 activation with the clathrin machinery (Marat and McPherson, 2010 [PubMed 20154091]).[supplied by OMIM, Nov 2010]

Product images:



Circular map for RC207881



Western blot validation of overexpression lysate (Cat# [LY411041]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207881 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).