

## Product datasheet for SC304873

### DENND1A (NM\_020946) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DENND1A (NM_020946) Human Untagged Clone
Tag:	Tag Free
Symbol:	DENND1A
Synonyms:	FAM31A; KIAA1608
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304873 representing NM_020946 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCTCCAGGATCAAGCAGAATCCAGAGACCACATTTGAAGTATATGTTGAAGTGGCCTATCCCAGGA  
CAGGTGGCACTCTTCAGATCCTGAGGTGCAGAGGCAATCCCGGAGGACTACAGTGACCAGGAAGTTCT  
ACAGACTTTGACCAAGTTTTGTTCCCTTCTATGTGGACAGCCTCACAGTTAGCCAAGTTGCCAGAAC  
TTCACATTCGTGCTCACTGACATTGACAGCAAACAGAGATTCGGTTCTGCCGCTATCTTCAGGAGCGA  
AGAGCTGCTTCTGTATCTTAAGCTATCTCCCTGGTTCGAGGTATTTATAAGCTGCTTAACATCCTGGC  
AGATTACACGACAAAAAGACAGGAAAATCAGTGAATGAGCTTCTGAAACTCTGCACAACTTCCCATC  
CCTGACCCAGGAGTGTCTGTCCATCTCAGCGTGCACTTATTTTACTGTGCCTGATACCAGAGAACTTC  
CCAGCATACCTGAGAATAGAAATCTGACAGAATATTTTGTGGCTGTGGATGTTAAACAATGTTGCATCT  
GTACGCCAGTATGCTGTACGAACGCCGGATACTCATCATTTGCAGCAAACCTCAGCACTCTGACTGCCTGC  
ATCCACGGGTCTGCGCGCATGCTCTACCCATGTACTGGCAGCACGTGTACATCCCGTGTGCCGCCG  
ATCTGCTGGACTACTGCTGTGCTCCCATGCCCTACCTCATAGGAATCCATTTAAGTTTAAAGGAGAAAGT  
CAGAAACATGGCCCTGGATGATGCTGTGATCCTGAATGTGGACACCAACCCCTGAAAACCCCTTCGAT  
GACCTCCAGAGCCTCCAAACGACGTGATCTCTCCCTGAAGAACAGGCTGAAAAAGGTCTCCACAACCA  
CTGGGGATGGTGTGGCCAGAGCGTTCCTCAAGGCCAGGCTGCTTCTTCGGTAGCTACCGAAACGCTCT  
GAAAATCGAGCCGAGGAGCCGATCACTTTCTGTGAGGAAGCCTTCGTGTCCCACTACCGCTCCGGAGCC  
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TTCTCAATTCGGCGAAGGTTTCAGTGATGTTTTGAAGAGGAAATCAACATGGGCGAGTACGCTGGCAG  
TGACAACTGTACCATCAGTGGCTCTCCACTGTCCGAAAGGAAGTGGAGCAATTCTGAATACTGTAAG  
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AGGTGAAAACCGCTTGAAGCAAAGGACATTGCCGAGAATGGCTGCCCCCCACCCAGAAAGAGCAGCT  
GCCAAAGACTGCACCGTCCCACTGGTGGAGGCCAAGGACCCCAAGCTCCGAGAAGACCGCGGCCAATC



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ACAGTCCACTTTGGACAGGTGCGCCACCTCGTCCACATGTTGTTAAGAGACAAAGAGCAACATCGCAG  
 TGAAGGCCGGAGGACGTCTGTGCCGAGCCCTGAGCAGCCGACGCGTATCGGACACTCAGGGAGTCAGA  
 CAGCGCGGAAGGCGACGAGGCGAGAGTCCAGAGCAGCAAGTGCAGGAGTCCACAGGCCCTGTCCCAGCT  
 CCCCTGACCCGGGCTGCCAGCATCGACCTTCTGGAAGACGTCTTCAGCAACCTGGACATGGAGGCCGAC  
 TGCAGCCACTGGCCAGGCCAAGAGCTTAGAGGACCTTCGTGCCCCAAAGACCTGAGGGAGCAGCCAGG  
 GACCTTTGACTATCAGAGGCTGGATCTGGGCGGGAGTGAGAGGAGCCGCGGGGTGACAGTGGCCTTGAAG  
 CTTACCCACCGTACAACAAGCTCTGGAGCCTGGGCCAGGACGACATGGCCATCCCCAGCAAGCCCCCAG  
 CTGCCTCCCCTGAGAAGCCCTCGGCCCTGCTCGGGAACCTCCCTGGCCCTGCCTCGAAGGCCCCAGAACC  
 GGACAGCATCCTGAACCCAGTGACAAGGAGGAGTGCCACCCCTACTCTGGGAGCATCACCATCCCC  
 CGGCCCAAGGCAGGAAGACCCAGAGCTGGGCATCGTGCCTCCACCGCCATTCCCCGCCCGGCAAGC  
 TCCAGGCTGCCGGCGCCGACTTGGTGACGTCTCAGAGCGGTCAGACGGATCGGGACAGGCGAGCTGC  
 CCTGAGTCCAGGGCTCCTGCCTGGTGTGTCCCCAAGGCCCACTGAACTGCTCCAGCCGCTCAGCCCT  
 GGCCCCGGGGCTGCAGGCAGGACGAGTACGCCCTGCTCGCCCTCCTGGACCCGCTCAGCACAGCCTGGT  
 CAGGCAGCACCCCTCCCGTACGCCCCGCCACCCGAATGTAGCCACCCATTACCCCCAATTCAGCTT  
 CCCCCCTGCAGGGACACCCACCCATTCCACAGCCACCACTCAACCCCTTTGTCCATCCATGCCAGCA  
 GCCCACCCACCCCTGCCCTGGTCTCCACACCAGCCGGGCTTTTCGGGGCCCTCCAGCTTCCCTGGGGC  
 CGGCTTTTGGCTCCGGCCTCCTGCTGTCCAGTGTGGCTTCTGTGCCCTCACAGGTCTCAGCCAACT  
 CTCCGCCCTCTCCATGCCAACCTCTTTGGCCAGATGCCATGGGCACCCACAGAGCCCTACAGCCG  
 CTGGGTCCCCAGCAGTTGCCCGTCGAGGATCCGAACGTTGCCCTGGCCCGCTCAAGTGCCAGGGCTG  
 CTGAGACCAAGCAGGGGCTGGCCCTGAGGCTGGAGACCCCGCTTCTGCCTCCAGGCCCCCTCAAGG  
 CCTGGAGCAACTGCAGCCCTGCTCCTCAACAGGCCAGAGACCCCTTTGAGGATTTGTTACAGAAA  
 ACCAAGCAAGACGTGAGCCCGAGTCCGGCCCTGGCCCCGGCCCCAGACTCGGTGGAGCAGCTCAGGAAGC  
 AGTGGGAGACCTTCGAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_020946
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_020946.1](#), [NP\\_065997.1](#)

RefSeq Size: 5041 bp

RefSeq ORF: 3030 bp

Locus ID: 57706

UniProt ID: [Q8TEH3](#)

Cytogenetics: 9q33.3

**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 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, connectins link RAB35 activation with the clathrin machinery (Marat and McPherson, 2010 [PubMed 20154091]).[supplied by OMIM, Nov 2010]  
Transcript Variant: This variant (1) encodes isoform 1.