

## Product datasheet for RC220073

### DENND2A (NM\_015689) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DENND2A (NM_015689) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DENND2A
Synonyms:	FAM31D; KIAA1277
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220073 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATATGTTTCAGCTTGGATATGATCATCAGTGACCCAGCTGCAGAAGCCAGCAGGGCTGGGAAGAAGC  
AGCTCAGAGGTGTTTCAGAACCCCTGCCATCTGCCAGAGCCAGACCCCGCACAAAGTCCCTCAACATAAA  
GGACAAGATATCAGAATGGGAAGGGAAGAAAGAGGTGCCACTCCTGCACCCAGCAGGAGAGCAGACGGA  
CAGGAGGATTATCTGCCGCTCTACGGTGGAGAGGAGGAGTGTGATGGGGTGAGAACTCAGGTACAG  
AGGCTAAGAATGGAATGAGGCCAGGAACAGAGAGCACAGAGAAGGAGAGGAATAAAGGAGCAGTGAACGT  
CGGGGGACAGGACCCAGAGCCGGGGCAAGACCTAAGCCAGCCAGAACGGGAAGTGGATCCTAGCTGGGGC  
CGAGGCCGAGAGCCAAGACTTGGCAAGCTACGCTTTCAGAACGATCACCTCTCCGTGCTGAAGCAGGTCA  
AGAAACTCGAGCAGGCTTTGAAGGATGGGTCCGGCAGGGCTGGATCCCCAGTTACCAGGGACTTGTACTC  
CCCACACTGCCCTCCTGACAAGGCAGAGGCAGGGTCCACCCTTCTGAGAACCTGGGAGGCGGGAGTGGC  
TCAGAAGTCAGCCAGAGGGTCCACCCCTCGGACCTGGAAGGCAGGGAGCCACCCCTGAGCTTGTGGAGG  
ACAGGAAAGGTTTCATGCAGAAGGCCCTGGGACCGGAGCCTTGAACGTGTATAGGGGCTCGGAGGGTTC  
CCCCACAAAGCCCTTCATCAACCCTCTGCCAAAACCCCGGAGAAGCTTCAAACATGCCGGAGAAGGGGAC  
AAAGATGGGAAGCCTGGCATCGGCTTCAGGAAAGAGAAAAGAAATCTGCCTCCTCGCCCTCTACCTC  
CCCCGCTCTGCCCTCCTCTCCCCACCTTCTCTGTGAACAGAAGACTGTGGACCGGGAGACAGAAATC  
CAGTGCAGACCACAGAAAGTCTATGAGTTTGAAGATTTACTGCAGTCTTCTCTGAGAGCAGCAGGGTG  
GACTGGTACGCGCAGACTAAGCTGGGGCTGACACGCACCTTATCGGAGGAGAAGCTCTATGAAGACATTC  
TAGATCCGCAATGAAGGAGAACCCTTATGAGGACATCGAGTTACATGGTCGCTGCCTGGGAAAGAAGTG  
TGTCTTGAATTTTCTGCTTCTCCACCTTCCATCCCTGACACACTACCAAGCAGTCATTGTCCAAA  
CCTGCTTTTTTCCGACAAAATTCAGAGAGGAGGAACTTCAAGCTGCTGGACACTAGGAAGCTGAGTCGGG  
ATGGAAGTGGTCCCCTTCCAAAATCAGCCCTCCCTCCACTCCCAGCAGCCCTGATGACATTTTCTTTAA  
CCTTGGAGACCCACAGAACGGCAGGAAGAAGAGAAAGATACCCAAGCTGGTGTTCGAATCAACGCCATT



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TATGAGGTCCGGAGAGGAAAGAAACGGGTGAAGAGGCTGTCCCAGTCAATGGAGAGCAACTCAGGAAAAG  
 TGACAGATGAGAACAGTGAAGTCTGACAGTGACACAGAGGAGAAGCTGAAAGCTCAGCCAGCGCCTGGT  
 CAACGTGAAGTCCCGGCTGAAGCAGGCGCTCGGTACCCATCACTTGCCCGGAACTCATCGAGTACCAG  
 GAGAGGCAGCTCTTCGAGTACTTTGTGGTTGTGTCTTTGCACAAGAAGCAGGCCGGGGCTGCCTACGTGC  
 CAGAACTACCCAACAGTTCCTCTGAAGTTGAAAGGCTTTTCAAGTTCATGAGAGAAGCTGAGGACCA  
 ACTGAAGGCCATCCCCAGTTCGTTTTCCCGATGCCAAGGATTGGGTTCTGTCCAGCAGTTACCAGT  
 GAAACATTCTCGTTTGTCTTAACTGGAGAAGATGGGAGCAGAAGGTTTCGGTTACTGCCGAAGACTGCTGC  
 CTGGAGGCAAAGGGAAGCGCCTTCTGAAGTTTACTGCATTGTGAGCCGCTGGGATGCTTCAGCCTCTT  
 TTCAAGGATCTTGGATGAGGTGGAAAAAGACGAGGCATCTCTCCTGCCCTGGTTCAGCCACTCATGAGA  
 AGTGTCTGGAAGCCCTTTCCAGCCCTGGGCAAACCATCCTTGTCAAGAACTTCTGCCAGGTTTCAG  
 GAACTGAGGTGATCGAACTGTGCCGCCCTGGACTCCCGGCTCGAGCACGTGGACTTTGAGTCTCTCTT  
 CTCCTCCCTCAGCGTCCGCCACCTGGTCTGTGTGTTTGCCTCCCTGCTTCTGGAGAGGAGGTCATCTT  
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 CTGCTCAACAGCCGGTTCCTCAGACAGATGGACGATGAGGACTCCATCCTGCCCCGGAAGCTTCAGGTGG  
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 GCACGGTCCAGAGTCCAGCCCTTGAACGAGGTGGTGTCTGAAGCCTTTGTCGGCTTCTTCTGAGGATT  
 GTGGGACACTACTCTTTGTTCTGACGTGGGGCAGCGTGAGGAGAGAACCCTGCAGCGGGAGGCCCTTC  
 GCAAAGCTGTCTCTCCAAGAGCCTCCGCCACTTCTGGAGGTCCTCATGGAGACTCAGATGTTTCGGGG  
 CTTTCATCCAGGAGCGGGAGCTGCCCGGCGAGGATGCCAAAGGTCGTTTGGAGTCCGAGCCCAAGAGTAT  
 CTGAAACACTCCCCAGTGGAGAGCACAGCGGTGTCAATAAGTTCCTGAAGGGACTAGGCAATAAAATGA  
 AATTTCTCCACAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC220073 protein sequence  
 Red=Cloning site Green=Tags(s)

MDMFLSDMIISDPAEASRAGKKQLRGVQNPCPSARARPRHKSLSLNKDKISEWEGKKEVPTAPSRRADG  
 QEDYLPSSSTVERRSSDVRTQVTEAKNGMRPGTESTEKERNKGAVNVGGQDPEPGQDLSQPEREVDPSWG  
 RGREPRLGKLRQNDHLSVLKQVKLEQALKDGSAGLDPQLPGTCYSPHCPPDKAEAGSTLPENLGGGSG  
 SEVSQRVHPSDLEGREPTPELVEDRKGSCRRPWDRSLENVYRGSEGSPTKPFINPLPKPRRTFKHAGEGD  
 KDGKPGIGFRKEKRNLPLPSLPPPLPSSPPSSVNRRLWTGRQKSSADHRKSYEFEDLLQSSSESSRV  
 DWYAQTKLGLTRTLSEENVYEDILDPPMKENPYEDIELHGRCLGKKCVLNFPASPTSSIPDTLTKQSLSK  
 PAFFRQNSERRNFKLLDTRKLSRDGTGSPSKISPPSTPSSPDDIFFNLGDPQNGRKKRIPKLVLRINAI  
 YEVRGKGRVRLSQSMESNSGKVTDENESDSDTEEKLAHSQRLVNVKSRLKQAPRYPSLARELIEYQ  
 ERQLFEYFVVVSLHKKQAGAAAYPELTQQFPLKLEERSFKFMREAEDQLKAIPQFCFPAKDWVPVQFTS  
 ETFSFVLTGEDGSRFFGYCRRLLPGGKGRKPEVYCIVSRLGCFSLFSRILDEVEKRRGISPALVQPLMR  
 SVM EAPFPALGKILVKNFLPGSGTEVIELCRPLDSRLEHVDFESLSSLSVRHLVCFASLLLERRVIF  
 IADKLSILSKCCHAMVALIYPFAWQHTYIPVLPAMVDIVCSPTPFLIGLLSSSLPLLRELPLEEVLVVD  
 LVNSRFLRQMDDEDSILPRKLQVALEHILEQRNELACEQDEGPLDGRHGPESSPLNEVVSEAFVRFVVEI  
 VGHYSFLTSGEREERTLQREAFRKAVSSKSLRHFLVFMETQMFIRGFIQERELRRQDAKGLFEVRAQEY  
 LETLPSGEHSGVNFKFLKGLGNMKMFLHKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6607\\_h01.zip](https://cdn.origene.com/chromatograms/mk6607_h01.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_015689

**ORF Size:** 3027 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\\_015689.1](#)

**RefSeq Size:** 3485 bp

**RefSeq ORF:** 3030 bp

**Locus ID:** 27147

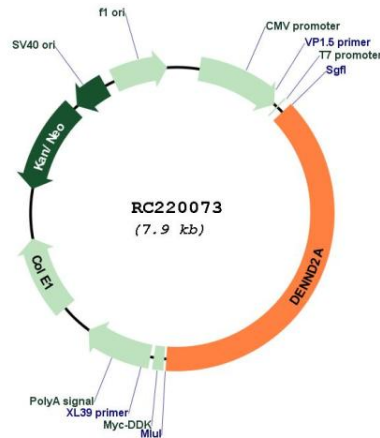
UniProt ID: [Q9ULE3](#)

Cytogenetics: 7q34

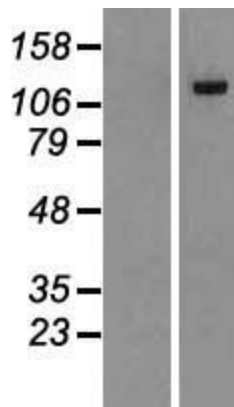
MW: 113.9 kDa

Gene Summary: Guanine nucleotide exchange factor (GEF) which may activate RAB9A and RAB9B. Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form. May play a role in late endosomes back to trans-Golgi network/TGN transport.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC220073



Western blot validation of overexpression lysate (Cat# [LY414383]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220073 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).