

Product datasheet for **MC220549**

Dennd1b (NM_181347) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dennd1b (NM_181347) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dennd1b
Synonyms:	4632404N19Rik; 4930467M19Rik; 6820401H01Rik; F730008N07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220549 representing NM_181347
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAAGTAAGCAGCGATTGGGTTCTGCAGGCTCACATCTGGAGGCAGAATTTGTTTATGTATTCTTA
 GTTACTTGCCATGGTTTGAAGTATATTATAAACTTCTAAATACTCTGGCAGATTACTTGCCAAGGAACT
 GGAAGAGGATTTGAATGAACTCTTAAATCACTCTATAACCAACCCAGTACCAAAGGCAAACTCCTGTC
 AACTTGAGTGTGCACTCCTGTTTCATCACACCTGACATAACTGGACTCCCAACGATACCGGAGAGTAGAA
 ACCTGACCGAGTACTTTGTTGCCGTGGATGTCAACAACATGCTGCGACTGTACGCCAGCATGCTGCATGA
 GAGGCGCATCATTATTACCTCGAGCAAATTAAGCACTTAACTGCCTGTCTCCATGGATCGGCTGCGCTA
 CTCTACCCGATGACTGGCAACACATATATATCCCGTGTCTCCACACCTGCTGGACTACTGCTGTG
 CCCCAATGCCATACCTGATTGGAATACACTCCAGTCTCATAGAGAGAGTAAAAATAAATCATTGAAGA
 TGTGGTGTGTTAAATGTTGACACAAACACGTTAGAATACCATTTAATGACTTGAGCAGCCTGCCAGT
 GATGTGGTCTCGCCTTGAAAAATAAGCTGAAGAAGCAGTCCACAGCTACGGGAGATGGAGTGGCTCGGG
 CCTTTCTGAGGGCTCAGGCGGCTTTGTTGGCTCCTACCGAGATGCTCTGAGATACAAGCCTGGCGAGCC
 CATCACCTTCTGTGAGGAGAGCTTTGTAAGCACCGCTCAAGCGTGATGAAAACAGTTCTTGAGACTGCA
 GTTAACCTTCAGCTCTTTAAGCAGTTTATTGATGGTCGACTGGCAAAGCTTAACGCAGGAAGAGGTTTCT
 CTGATATCTTCGAAGAAGAGATCACTTCGGGTGGCTTCTGTGGAGGGAGCCCGAGGTATATCAGCAGTG
 GGTGTATACAGTCAAGAAAGGAGGTGCATTGTTCAACACAGCAGTGACCAAAGCAACTCCCGCTGTGCGG
 ACTGCATACAAATTTGCAAAGAGTCACGCCAGACTGGGACTAAAGGAGGTGAAGAGCAGGCTGAAACACA
 AGGACAATGAGGAAGAGTATGGGACCTGTTCTGGTTTGGTGCAGTATACACCAGTGTACACTTTACACAA
 TGAAAAGGGAGAGAACAGAGAGAAGCACAAAGCTTCCAGACACACTTGAAAAGGCCTCATAAGAGCCTA
 GATGGTACCCTGTATGATGATGATGATGATGACGATGACATTGAACGGGCAAGCAAGATATCTTGAAG
 ACGGGGAAGAAACCCGTGCTTATTTCTACGAAAGCGATGACTCCGTTGAAGCCAGGTGAAGGCTCCTTA
 CTCAGGGGAGATGGACTTACTGGGTGAGATCCTGGACACGCTGAGCACGCACAGCTCTGATCAAGGAAAG
 CTGGCGCTGCCAAGAGCCTGGATTTCTCAGATCCATGGATGACATTGATTACAAGCCTACGAACAAGT
 CCAACGCTCCCAGTGAGAATAACCTGGCCCTGCTGTGTGCTTCTGGAGACCAGGGAGAGTGAATCTCGG
 GCAGGACGACAGCGCCCTCCATGGCAGGCAACTCCCTCCATCCCAAGGAAACGCGTTTCTCTGGTGGG
 CTGACAGAGTCTCTGTTTATCCTGAAAGAGGAGAGCAGGGAGAAGCCCTCTGTGCTGACAGCGTAAAGT
 GCCCTACTGTGGTGGGAAAGCCAGCTCCGACTTCAGGACTGCGTTCCACGCTGCTGCTCCTGAAGCTTC
 CCAAACAGAGAGAGGAAGAGCAGAAGTGAAGCAAAACACAGGTGAGGCTCCACTTCAGTCAGAGGATCTG
 TCGGTGCCCGGCCCGGGAGCCGCAAGTCCGACTTTTGTCCCTGGGAGAAGGCTGGCAAAGAGGACACGA
 AGCCTTCAAAGGATGTCGGACTTCTCCAAGAAGTAGTGTATTGTGCATGTGACTTCCAACA
 AGATTTAAACATTTTCAAGAAAGCAGAAGTGGAAACCAAACTTAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_181347

Insert Size: 2076 bp

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).

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_181347.3](#), [NP_851992.1](#)

RefSeq Size: 8072 bp

RefSeq ORF: 2076 bp

Locus ID: 329260

UniProt ID: [Q3U1T9](#)

Cytogenetics: 1 E4

Gene Summary: Guanine nucleotide exchange factor (GEF) for RAB35 that acts as a regulator of T-cell receptor (TCR) internalization in TH2 cells. Acts by promoting the exchange of GDP to GTP, converting inactive GDP-bound RAB35 into its active GTP-bound form. Plays a role in clathrin-mediated endocytosis. Controls cytokine production in TH2 lymphocytes by controlling the rate of TCR internalization and routing to endosomes: acts by mediating clathrin-mediated endocytosis of TCR via its interaction with the adapter protein complex 2 (AP-2) and GEF activity. Dysregulation leads to impaired TCR down-modulation and recycling, affecting cytokine production in TH2 cells.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) represents use of an alternate promoter and 5' UTR and uses a downstream start codon, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.