

Product datasheet for **MC221470**

Dennd1b (NM_001166501) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dennd1b (NM_001166501) 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: >MC221470 representing NM_001166501
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATG**GACCGCAGGACCAGGAAAA**TCAGAAAGAACTTTTGACTTGGTATTGAAAGTGAAGTGT**CATGCCT**
 CTGAAAATGAAGATCCTGAGGTATTGTGAAATTTCCAGAGGACTTTGGAGACCAGGAAGTTCTGCAGAG
 CGTGCCCAAGTTCTGTTTTCCCTTCGATGTGAAAGGGTGTCTCAGAATCAAGTTGGACAGCACTTTACC
 TTCGTCCTGACAGACATGAAAGTAAGCAGCGATTTGGTTCTGCAGGCTCACATCTGGAGGCAGAAATTT
 GTTTATGTATTCTTAGTTACTTGCCATGGTTTGAAGTATATTATAAACTTCTAAATACTCTGGCAGATTA
 CTTGGCCAAGGAACTGGAAGAGGATTTGAATGAACTCTTAAATCACTCTATAACCAACCCAGTACCAAAG
 GCAAACACTCCTGTCACTTGAGTGTCACTCCTGTTTATCACACCTGACATAACTGGACTCCCAACGA
 TACCGGAGAGTAGAACTGACCGAGTACTTTGTTGCCGTGGATGTCAACAACATGCTGCGACTGTACGC
 CAGCATGCTGCATGAGAGCGCATCATTATTACCTCGAGCAAATTAAGCACTTTAACTGCCTGTCTCCAT
 GGATCGCTGCGCTACTCTACCCGATGTACTGGCAACACATATATATCCCGTGGTTCCTCCACACCTGC
 TGGACTACTGCTGTGCCCAATGCCATACCTGATTGGAATACACTCCAGTCTCATAGAGAGAGTGAAAAA
 TAAATCATTGGAAGATGTGGTTGTGTTAAATGTTGACACAAACACGTTAGAATCACCATTTAATGACTTG
 AGCAGCCTGCCAGTGATGTGGTCTCGGCCTTGAAAAAAGCTGAAGAAGCAGTCCACAGCTACGGGAG
 ATGGAGTGGCTCGGGCTTTCTGAGGGCTCAGGCGGCTTTGTTGGCTCCTACCGAGATGCTCTGAGATA
 CAAGCCTGGCGAGCCATCACCTTCTGTGAGGAGAGCTTTGTAAGCACCGCTCAAGCGTGATGAAACAG
 TTCTGGAGACTGCAGTTAACCTCAGCTCTTTAAGCAGTTTATTGATGGTCACTGGCAAAGCTTAACG
 CAGGAAGAGGTTTCTCTGATATCTTCAAGAAGAGATCACTTCGGTGGCTTCTGTGGAGGGAGCCCGAG
 GTCATATCAGCAGTGGGTGATACAGTCAAGAAAGGAGGTGCATTGTTCAACACAGCAGTGACCAAAGCA
 ACTCCCGCTGTGCGGACTGCATACAAATTTGCAAAGAGTCAAGCCAGACTGGGACTAAAGGAGGTGAAGA
 GCAGGCTGAAACACAAGGACAATGAGGAAGAGTATGGGACCTGTTCTGGTTTGGTGCAGTATACACCAGT
 GTACACTTTACACAATGAAAAGGGAGAGAACAGAGAGAAGCACAAGCTTTCCAGACACACTTGAAAAGG
 CCTCATAAGAGCCTAGATGGTACCCTGTATGATGATGATGATGATGACGATGACATTGAACGGGCAAGCA
 AGATATCTTCTGAAGACGGGGAAGAAACCCGTGCTTATTTCTACGAAAGCGATGACTCCGTTGAAGCCCA
 GGTGAAGGCTCCTTACTCAGGGGAGATGGACTTACTGGGTGAGATCCTGGACACGCTGAGCACGCACAGC
 TCTGATCAAGGAAAGCTGGCGCCTGCCAAGAGCCTGGATTTCTCAGATCCATGGATGACATTGATTACA
 AGCCTACGAACAAGTCCAACGCTCCAGTGAGAATAACCTGGCCCTGCTGTGTGCTTCTGGAGACCAGGG
 AGAGTGGAAATCTCGGGCAGGACGACAGCGCCCTCCATGGCAGGCAACTCCCTCCATCCCAAGGAAACGC
 GTTTCCTCTGGTGGGCTGACAGAGTCTCTGTTATCCTGAAAGAGGAGAGCAGGGAGAAGCCCCTCTGTG
 CTGACAGCGTAAGTGGCCCTACTGTGGTGGGAAAGCCAGCTCCGACTTCAGGACTGCGTTCCAGCCTGC
 TGCTCCTGAAGCTTCCCAACAGAGAGAGGAAGAGCAGAAGTGAAGCAAACACCAGGTGAGGCTCCACTT
 CAGTCAGAGGATCTGTGGTGGCCGGCCCGGGAGCCGCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
 GCAAAGAGGACACGAAGCCTTCAAAGGATGTCGGACTTCTCCAAGAAGTGTGTCATTGTGTGCATGTC
 ATGTGACTTCCAACAAGATTTAAACATTTCAAGAAGAGCAGAAGTGGAAACCAACT**TAG**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001166501
Insert Size: 2301 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:	<ol style="list-style-type: none">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_001166501.1 , NP_001159973.1
RefSeq Size:	8206 bp
RefSeq ORF:	2301 bp
Locus ID:	329260
UniProt ID:	Q3U1T9
Cytogenetics:	1 E4
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>