

## Product datasheet for MC204420

### Dennd1a (NM\_146122) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dennd1a (NM_146122) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dennd1a
Synonyms:	603044619Rik; connecdenn
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC027786

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GCGCCCGCCGGCTGGAGCGAGTACTTTAACCCCGGGAGGCGACAGCAGTGCGGCGCCGGGGAGCGAG
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GAATCAGACAGCGCAGAAGGTGATGAGACCGAGAGTCCAGAGCAGCTAGTTCGAGAACCCCTGGGGACCTA  
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 TCTTGAATTTGATTCCTTTCAATAAACCAAGGTAACACAGAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_146122
- Insert Size:** 3051 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:** [BC027786](#), [AAH27786](#)

**RefSeq Size:** 4331 bp

**RefSeq ORF:** 3051 bp

**Locus ID:** 227801

**UniProt ID:** [Q8K382](#)

**Cytogenetics:** 2 B

**Gene Summary:** Guanine nucleotide exchange factor (GEF) regulating clathrin-mediated endocytosis through RAB35 activation. Promotes the exchange of GDP to GTP, converting inactive GDP-bound RAB35 into its active GTP-bound form. Regulates clathrin-mediated endocytosis of synaptic vesicles and mediates exit from early endosomes (PubMed:17182770, PubMed:20159556). Binds phosphatidylinositol-phosphates (PtdInsPs), with some preference for PtdIns(3)P (PubMed:20159556).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' end compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter 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.