

Product datasheet for **RN202425**

Dennd5a (NM_001107546) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dennd5a (NM_001107546) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dennd5a
Synonyms:	Rab6ip1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN202425 representing NM_001107546 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAGCGGCGGCGGCGGAGGGGCTCGGCCCCAGTCGCTTCGCCGACTATTTGTCATCTGCGGGC
TGGACACCGAGACCGGTTGGAGCCGACGAGCTGTCGGCATTATGCCAGTACATTCAGGCTTCTAAAGC
CAGGGATGGTCCAGCCCTTTCATTTCAAGTACGACTGAAGGAGAAAATTTGAGCAGACGCCATTGAGA
CGAACATTCAAGTCTAAGTCTTGGCCGATACCTGAGAATGTAGACTGGAATCCGTTTGACCAGGATG
CAGTGGGAATGCTGTGCATGCCCAAAGGGCTGGCATTCAAGACCCAGGCTGATCCAGGGAGCCACAGTT
CCATGCCTTTATTATCACAAGGGAGGATGGCTCTCGGACATTTGGGTTTGCCCTTACCTTTTATGAAGAA
GTTACCAGCAAGCAGATCTGCAGTGAATGCAGACCTCTACCACATGCACAACGCTGAGTATGATGTCC
TTCATGTCTCACTTGCTGATGGTGGAGACCAGAGTGGCATGGAAGACGGTGAAGGCATTCTGGGACCAA
GCTGCAGCGCTTCAACTCCTATGACATTAGCAGGGACACACTCTATGTTTCTAAATGCATCTGTCTCATC
ACACCCATGTCTTTCATGAAGGCATGTCGGAGTGTGCTGCAGCAGCTCCACCAGGCAGTCACGTCACCTC
AGCCCCCTCTCGCCCTCGAGAGCTACATATACAATGTAAGTCTATGAGGTGCCACTTCCACCTCCTGG
CCGCTCCCTGAAGTTTCTGGGGTCTATGGGCCAATAATCTGCCAGAGACCAAGTACCAATGAGCTTCTCT
CTATTTGATTTCCCTGTCAAAGAGGTCTTTGAACTGCTTGGGGTGGAGAATGTGTTTCAGCTTTTACTT
GTGCCCTTCTGGAGTTTCAAATACTGCTCTACTCACAGCATTACCAGAGACTGATGACCGTGGCGGAGAC
AATTACAGCTCTGATGTTTCTTTCCAATGGCAGCATGTCTATGTCCCCATTCTCCAGCTTCTCTCCTG
CATTTCTTAGACGCTCCTGTTCCGTACCTGATGGGTTGCACTCCAACGCTTGGATGACCGCTCAAAGT
TGGAGCTGCCTCAGGAGGCTAACCTCTGCTTTGTGGATGTTGACAACCACTTCATTGAGTTGCCAGAGGA
CTTGCTCAATTTCTAACAACCTGGAGTTTGTCCAGGAGGTCTCTGAGATCCTCATGGCCTTCGGCGTT
CCCCCTGAAGGGAACCTCACTGCAGCGAAAGTCTTGAAGCTGAAGAGGATCCGAGCCTCCGAGCTTG
TGTCTGACAAGAAGAACGGGAACATTGCGGGCTCCCTTTGCATTCTATGAGCTCTCAAGGAAAATGA
AACGATCGCTCGGTTGCAAGCTTTGGTCAAGAGGACTGGAGTGAGTTGGAAAACTGGAAGTTCGTGAA



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GATCCAGTAGCAATAAAGATTTCAAAGTTCAGTGTGATGAAGAAGAACTCAGGATTTACCAGCTAAACA
TTCAGATCCGGGAAGTTTTTGCCAATCGCTTTACCCAGATGTTTGCTGATTATGAAGTGTGTGCATCCA
GCCCAGCCAGGATAAGGAGTCTGGCTCAGCAACAGGGAGCAGATGCAGAACTTTGATAAAGCGTCCTTT
CTGTGAGATCAGCCTGAGCCCTACCTGCCCTTCTCTCAAGATTCCTAGAGACCCAGATGTTTGCATCTT
TTATTGACAACAAGATCATGTGTACGATGATGACGATAAAGACCCTGTCTCCGGGTCTTTGACTCAAG
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ACTGTGGATGAAGCAGAAAAAGCAATTGAGCTACGTCTGGCAAAATTTGACCACACTGCAGTTACCCCTC
ATCTTCTTGACATGAAAAATTGGACAAGGAAAAATGAACCTGGCTTTTTCCCTAAGCTACAATCAGATGT
ACTTTGACCCGGGCCAGCCAGCAACAAGTGACAAAAAGGAATGCCCTGCCAGTGAGGCGGAAAGAC
CGGCAGAAGCAGCACACGGAACACTTGCCTTAGACAATGACCAGAGGGAGAAGTACATCCAGGAAGCCA
GGAATATGGGCAGTACCATCCGTCAGCCCAAACTGTCCAACTGTCTCCCTCGGTCAATGCCAGACCAA
CTGGAAGTTTGTAGAAGGCTGTGAAGGAATGCCGAAACAAGACCAAGAGGATGCTGGTAGAGAAGATG
GGTCGAGAGGCAGTGGAGCTGGGCATGGGAAGTGAACATCACCGGTGTGAAGAGAATACTTTGATTG
CCAGCCTCTGTGACCTTCTGAAAGGATCTGGAGCCACGGGCTACAAGTAAAACAGGGGAAGTCAGCTTT
GTGGTCTCATTTGTACATTATCAGGAAAACCGGCAGAGAAAACCTCACATCAGGAAGCCTCAGTACCTCA
GGAATACTTCTTGATTGAGAACGAGAAAGTCTGACGCCAGTGCTGTATGTCTCCCTGAGGGTCTCCT
TAATCCAGGATATGAGGCACATTCAGAATATTGGGGAATCAAGACTGATGTGGGAAAGGCCAGAGCATG
GGTGCGACTGTCCATGGAGAAGAAGCTACTCTCCAGACATCTGAAGCAGCTTCTTTCAGACCATGAGCTC
ACCAAGAAGCTGTACAAGCGTTATGCCTTCTGCGCTGCGATGACGAGAAGGAGCAGTTCCTCTATCACC
TGCTCTCCTTCAACGCAGTGGACTACTTCTGCTTCAACATGTCTTCACAACCATCTGATCCCATACCA
CATTTTGATTGTACCAAGCAAGAAGCTGGGGGGCTCCATGTTACCGCCAATCCATGGATCTGTATATCA
GGAGAAGTGGGTGAAACACAGATCCTGCAGATCCCCAGGAATGTGCTAGAGATGACTTTTGAGTGCCAGA
ACCTGGGAAGCTCACAAGTGTCCAGATTGGCCACGATAAATCTGGGCTGTATGCCAAATGGCTTGGA
ATATGTGATGGTCAGGAATGAGATCACAGGACATACCTACAAGTTTCCATGTGGCCGATGGCTGGGCAAG
GGTATGGATGATGGAAGCCTGGAGCGTGTGCTTGTGGGAGCTGCTCACGTCCCTACCCGAGGTAGACG
AGAGGCCTTGTGGACTCCACCACTGCAGCAGTCCCCAGCGTCATCCGGAGACTTGTGACCATCTCACC
CAACAATAAGCCCAAGCTGAACACAGGGCAGATCCAGGAATCCATCGGGAGGCGGTCAATGGCATTGTG
AAGCACTTCCATAAACCTGAGAAAGAGCGTGGCAGTCTGACGCTGTTGCTTTGTGGAGAGTGTGGTCTCG
TTTCAGCACTGGAGCAAGCTTTCAGCATGGATTTAAATCACCCCGGCTCTTCAAAAATGTCTTCATTTG
GGACTTCTCGGAAAGCACAAACCTATTATGAGACGTTAGAGCAGAATGATGTAGTCCCAGAGGAAAAAC
TGGCACACACGGGCCCGCAACTTCTGCCGATTTGTACCCGAGTCAACAACACGCCTCGGAACATCGGCA
AGGACGGCAAATTTAGATGCTGGTGTGCTGGGAGCCAGAGATCACCTCCTGCACCACTGGATAGCCTT
GCTGGCCGACTGTCCCATCACTGCACACATGTATGAGGATGTGGCACTGATCAAGGACCACACGCTCGTC
AATTCTTTGATCCGAGTGTGACAGCCCTGCAAGAATTCAACATCACACTGGACACCTCCCTTGTGAAGG
GCATTGACATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001107546

Insert Size:

3864 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_001107546.2](#), [NP_001101016.2](#)

RefSeq Size: 4928 bp

RefSeq ORF: 3864 bp

Locus ID: 308942

UniProt ID: [G3V7Q0](#)

Cytogenetics: 1q33

Gene Summary: Guanine nucleotide exchange factor (GEF) which may activate RAB6A and RAB39A and/or RAB39B. Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form (By similarity). Involved in the negative regulation of neurite outgrowth (PubMed:27866705).[UniProtKB/Swiss-Prot Function]