

Product datasheet for **RG202653**

DENND2D (NM_024901) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DENND2D
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202653 representing NM_024901
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGGACAAGTGGTAGGCCGGGTGTTCAAGGCTCTTCCAACGCCGACTGCTTCAACTCCGAGCAGGAC
CACCCAGGACAATTCAGGGGAAGCTTTAAAGGAACCAGAAAGGGCCAGGAGCACTCTTTGCCCAACTT
TGCTGGGGGGCAGCACTCTTTGAATACCTTCTTGTTGTTTCTCTCAAAAAGAAGCGTTTCAGAGGATGAT
TACGAGCCTATAATCACCTACCAATTTCCCAAGCGGAGAACCTGCTTCGGGGTCAGCAGGAGGAGGAGG
AGCGGCTGCTCAAAGCTATCCCTTGTTCTGCTTCCAGATGGGAATGAGTGGGCATCACTACCCAGGTA
TCCAGGGAGACCTTCTCCTTGTTCTGACCAATGTGGATGGGAGCAGAAAGATTGGATACTGCAGGCGC
CTCTTGCTGCCGGCCCTGGCCCTCGCCTTCCCAAAGTGTACTGCATCATCAGCTGCATCGGCTGCTTCG
GCTTGTCTCCAAGATCCTGGATGAAGTGGAGAAGAGACATCAGATCTCCATGGCTGTCATCTACCCGTT
CATGCAGGGCCTCCGAGAGGCAGCCTTCCCTGCTCCTGGGAAGACTGTCACTCTCAAGAGCTTCATCCCC
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CTCTATTGCACTGTCTCAGTTTTGAACAGATACTTCAGATCTTTGCCTCTGCCGTGCTGGAGAGAAAAAT
CATCTTCTGGCGGAAGGTCTCAGCACCTTGCTCTCAGTGCATCCATGCTGCTGCCGCACTGCTCTACCCC
TTCAGCTGGGCGCACACCTACATCCCTGTTGCTCCTGAGAGCCTTCTGGCCACCGTCTGCTGCCCAACCC
CCTTCATGGTTGGAGTACAAATGCGCTTCCAGCAGGAGGTATGGACAGCCCTATGGAAGAGGTCTGCT
GGTCAATCTTTGTGAAGGAACCTTCTTAATGTCGGTTGGTGATGAAAAAGACATCCTGCCACCGAAGCTT
CAGGATGACATCTTAGACTCTCTTGCTCAGGGGATCAATGAGTTAAAGACTGCAGAACAAATCAACGAGC
ATGTTTCAGGCCCTTTGTGCAAGTTCTTTGTCAAGATTGTGGGCCATTATGCTTCTATATCAAGCGGGA
GGCAATGGCAAGGCCACTTCCAAGAAAGATCCTTCTGTAAGGCTCTGACCTCCAAGACCAACCGCGGA
TTTGTGAAGAAGTTTGTGAAGACACAGCTCTTCTCACTTTTCATCCAGGAAGCCGAGAAGAGCAAGAATC
CTCCTGCAGGCTATTTCCAACAGAAAACTTGAATATGAGGAACAGAAAGAAACAGAAAGAAACCAAGGGA
AAAACTGTGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



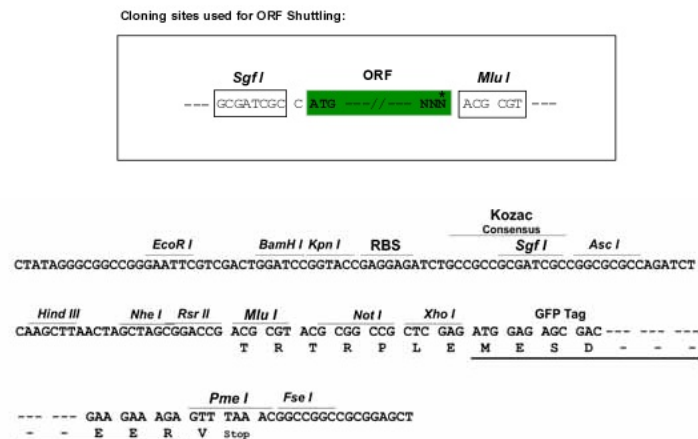
Protein Sequence: >RG202653 representing NM_024901
Red=Cloning site Green=Tags(s)

MEGQVVGVRVFLFQRRLLQLRAGPPQDNSGEALKEPERAQEHSLPNFAGGQHFFEYLLVVSLLKKRSEDD
YEPIITYQFPKRENLLRGQQEEEEERLLKAIPLCFDPGNEWASL TEYPRETF SFVL TNVDGSRKIGYCRR
LLPAGPGPRLPKVYCIISCIGCGFLFSKILDEVEKRHQISMAVIYPFMQGLREAAFPAGKTVTLKSFIP
DSGTEFISL TRPLDSHLEHVD FSSLLHCL SFEQILQIFASAVLERKII FLAEGLSL SQCIAHAAAALLYP
FSWAHTYIPVVPESLLATVCCPTPFMVGVMRFQQEVMDSPMEEVLLVNLCEGTF LMSVGD EKDILPPKL
QDDILD SLGQGINELKTAEQINEHVS GPFVQFFVKIVGHYASYIKREANGQGHFQERSFCKALT SKTNRR
FVKFVKTKLFLSLFIQEAESKNPPAGYFQQKILEYEEQKQKKPREKTVK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024901

ORF Size: 1413 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024901.5](#)

RefSeq Size: 2062 bp

RefSeq ORF: 1416 bp

Locus ID: 79961

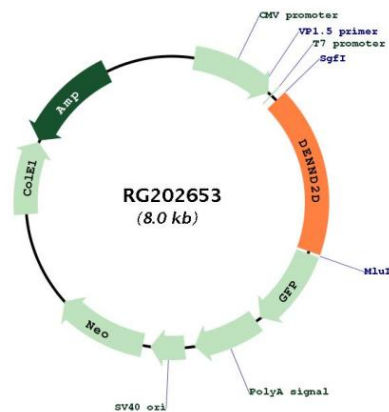
UniProt ID: [Q9H6A0](#)

Cytogenetics: 1p13.3-p13.2

Domains: DENN, dDENN, uDENN

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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202653