

Product datasheet for **RG219440**

DENND5B (NM_144973) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DENND5B (NM_144973) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DENND5B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219440 representing NM_144973 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCGGGAGCTGCGCGGCGCCCGGGCTCGGGCTCCTCCCCGGCCGCTGCCGCTTCGCGCACT
ACTTCGTGCTGTGCGGGATCGACGCGGACAGCGGGCTGGAGCCTGACGAGCTGGCGGGCGAAAATTTGA
CCAGAGTCCTTTGAGAAGAACATTCAAATCCAAAGTTCTCGCCCACTATCCTCAGAATATAGAATGGAAC
CCTTTTGATCAAGATGCGGTGAACATGTTGTGCATGCCTAAAGGGCTATCTTTCAGGACACAAACGGACA
ATAAAGACCCCGAGTTTCACTCATTTATAATTACCAGGGAAGATGGTTCTCGCACCTATGGTTTTGTCT
CACTTTTTATGAAGAAGTTACAAGTAAGCAAAATCTGCACAGCAATGCAGACACTTTACCAGATGCACAAC
GCTGAGCATTACAGCAGTGTGTATGCTTCATCTTCTGCAGTATGGACTCATTGGCAAGTAGTCTTGATG
AAGGAGATACAACCTCCCTTTTGAAGTCCAGCGATACAACCTCCTATGATATTAGCAGAGACACCCTGTA
TGTTTCAAAAAGTATATGCTTGATCACACCGTTACCATTATGCAGGCCTGCAAGAAATTCCTTATCCAG
CTTTACAAGGCTGTTACCTCACAGCAGCCACCACCCTGCCACTGAAAGCTATATCCACAATATCTTT
ATGAAGTACCCCTCCACCTCCAGGGAGGTCACTGAAATTTTATGGTGTATGAACCTGTCATCTGCCA
GAGGCCTGGGCCAGTGAACCTCCCTCTCTGATTACCCCTTCGGGAGGCATTTGAGCTCCTGGGATTA
GAGAACCTGGTGCAGGTGTTACCTGTGTCTTTAGAGATGCAAATCCTCTCTACTCACAAGATTATC
AACGCCTGATGACTGTGGCAGAAGGCATACCACACTTTTGTTCCTTTCAATGGCAACATGTTTATGT
GCCCATTTACCTGCTTCTCTGCTACATTTTCTTGATGCTCCTGTCCCTATCTGATGGGCCTTCAGTCA
AAAGAAGGAAGTACCGTTCTAAACTAGAACTTCTCAAGAGGCTAATTTGTGTTTTGTGGACATTGACA
ACCATTTTATTGAGTTGCTGAAGAATTCACAGTTCCTCAATAAAGTGAGTTTATCCAAGAACTCTC
TGAGGTTCTTGTTCAATTTGGGATCCCTCTGAGGCGAGCCTACATTGCAGTGAGAGTACCAGCAAACCTG
AAGAATATGGTTCTGAAAGACTTGGTCAATGACAAAAAGAACGGCAATGTCTGTACTAATAACATCAGCA
TGTATGAGTACTGAAGGCAATGAAACCATAGCCCGCTTGACAGGCTCTGGCCAAGCGTACTGGTGTGGC
TGTGAAAAAATGGACCTCTCTGCTTCTCTGGGTGAAAAAGACAAGGATTTAAACTGCATTGTGAAGAG
GCAGAATAAGGACTACCACTCAATGTACAGCTCCGAGAGGTCTTTGCTAACCGTTTTACACAGATGT
TTGCAGATTACGAAGCATTTGTCAATTCAGACTGCCAGGACATGGAATCCTGGCTGACCAACCGGGAACA



[View online »](#)

GATGCAGAACTTTGACAAAGCTTCCTTTCTGTCTGACCAGCCTGAGCCTTACCTGCCATTTCTTTACGCTTCATTGAAACACAGATGTTTGCCACCTTTATTGATAATAAAATTATGTCTCAGTGGGAAGAGAAAGATCCTTTGCTTCGGGTCTTTGACACTCGGATTGATAAGATAAGGCTGTATAATGTAAGGGCACCCACCTTGCGGACATCTATATATCAGAAATGCAGCACTTTAAAGAAGCAGCCCAATCAATTGAGCAGAGACTGATGAAAATGGATCACACTGCAATCCACCCACATCTACTTGATATGAAAATTGGTCAAGGCAAAATATGAGCAGGGGTCTTTCCAAAGTTACAGTCCGATGTCTTGGCAACAGGACCAACCAGTAACAATCGCTGGGTAAGTCGGAGTGCCACTGCACAGCGCAGGAAAGAACGCCTTCGCCAGCATTCTGAGCATGTTGGGCTGGACAACGACTTGAGGGAGAAATATATGCAAGAGGCACGAAGTTTAGGAAAAAACCTGAGGCAACCCAACTGTCAGACCTCTCTCCTGCAGTTATTGCACAGACCAACTGTAAATTCGTAGAAGGCTTATTAAGAAGATGTAGAATGAAGACAAAGCGCATGTTGGTGGAGAAGATGGGACATGAAGCGGTGGAACCTGGCCATGGAGAAGCAAAATCACC GGCTGGAGGAGAACACCTTGATCGCCAGCCTTTGTGACCTGCTGGAGAGGATATGGAGCCATGGCTTGCAGGTCAAGCAGGGGAAGTCGGCTTTGTGGTCACATTTAATTCATTTTCAGGACAGAGAAGAGAAACAAGAGCACCTTGCAATCACCAGTTGCCCTCGGACCAGAAAGAGAAAATCTGACTCAGGAGTTATGTTGCCAACGCTCAGGGTCTCTCTTATTAGGACATGAGGCATATTCAAAACATGAGTGAGATCAAGACTGATGTTGACGAGCTCGGGCTGGATAAGACTGTCTCTAGAAAAGAGCTCTGTCCAGCATCTTAAGCAGTTGCTTTCTAACCAACCACTCACCAAGAAGCTTTATAAGCGATATGCTTTTCTACGTTGCCAAGAAGAAAGAGAGCAGTTTCTTTACCACCTTCTTTCTCTCAATGCTGTGGACTATTTCTGCTTACCAGTGTGTTACCACTATCATGATTCCGTATAGGTCAGTGATCATCCCAATCAAAAAGCTGAGCAATGCAATAATCATACAAACCTTGATCTGTGTATCAGGAGAGCTGGGAGACACAGGAGTAATGCAGATTCACCAAAACCTCCTCGAAATGACCTTTGAGTGCCAGAACTTGGGAAGCTGACCACTGTTGAGATTGGTCACGATAACTCAGGACTGTTAGCCAAATGGCTAGTGGATTGTGTCATGGTCAGAAATGAAATCACAGGACATACATACAGATTCCCATGTGGCGGGTGGCTGGGAAAGGCATTGATGATGGGAGCCTGGAGAGAATTCTTATTGGAGAGTTGATGACATCAGCATCAGATGAAGATCTAGTAAAGCAGTGTGCGACTCCACCCAGCAGAAGTCACCCACCACGGCTAGGAGATTGAGCATCACTTCACTGACAGGAAAAACAACAAACCAATGCTGGGCAGATACAAGAAGGAATTGAGAAAGCTGTGAACAATATTGTGAAACATTTTCATAAACCTGAAAAAGAGAGAGGAAGCCTCACCGTGTTGCTGTGTGGAGAAAATGGCCTGGTTGCAGCCCTTGAGCAAGTTTTCCACCATGGGTTCAAATCTGCCCGCATCTTTACAAGAATGTCTTCATCTGGGACTTCATAGAGAAAGTGGTTGCTTATTTTGAAACAACGACCA GATTCTAGATAATGAAGATGATGTCCTTATTCAGAAATCATCCTGCAAAACCTTCTGCCACTACGTAATGCTATTAATACTGCACCCAGGAACATTGGGAAGGATGGCAAATTCAGATTTTAGTTTGCCTTGGAACAA GGGATCGCCTGCTCCACAGTGGATTCCATTGTTAGCTGAGTGTCTGCCATCACTCGAATGTATGAAGAGAGCGCTCTCTGCGAGACCGCATGACTGTCAACTCCCTTATCCGAATTCTGCAGACCATTCAGGACTTCACCATAGTCCTAGAAGGATCACTCATCAAGGAGTGGATGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219440 representing NM_144973
 Red=Cloning site Green=Tags(s)

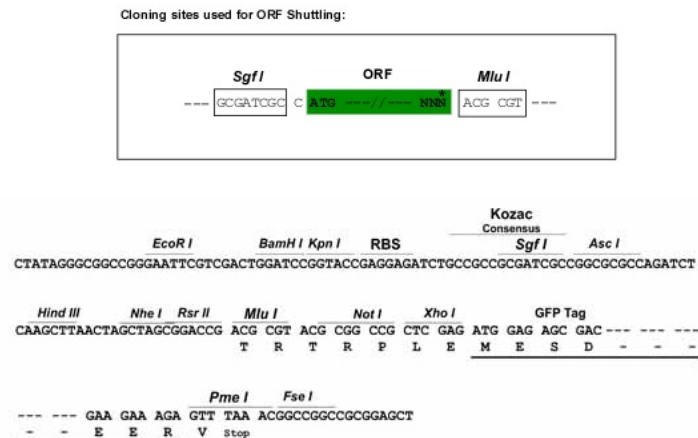
MSGSCAAPGPGSGSSPAACRFAHYFVLCGIDADSGLEPDELAGENFDQSPLRRTFKSKVLAHYPQNIewn
 PFDQDAVNMLCMPKGLSFRTQTDNKPQFHSFIITREDGSRTYGFVLTfYEEVTSKQICTAMQTLyQMHn
 AEHYSSVYASSSCMSDSLASSLDEGDTTSLKLQRYNSYDISRDTLYVSKSICLITPLPFMQACKKFLIQ
 LYKAVTSQQPPPLPLESYIHNILYEVPLPPGRSLKFYGVYEPVICQRPGPSELPLSDYPLREAFELLGL
 ENLVQVFTCVLLEMQILLYSQDYQRLMTVAEGITTLLFPFQWQHVVYPILPASLLHFLDAPVPYLMGLQS
 KEGTDRSKLELPQEANLCFVDIDNHFIELPEEFQFPNKVDFIQELSEVLVQFGIPPEGSLHCSESTSKL
 KNMVLKDLVNDKKNVCTNNISMYELLKGNETIARLQALAKRTGVAVEKMDLSASLGEKDKDLKLHCEE
 AELRDYQLNVQLREVfANRFTQMFADYEAfVIQTAQDMESWLtnREQMQNFDKASFLSDQPEPYLPFLSR
 FIETQMFATfIDNKIMSQWEEKDPLLRFVDTRIDKIRLynVRAPTLRTSIYQKCSTLKEAAQSIEQRLMK
 MDHTAIHPHLLDMKIGQGKYEQGFfPKLQSDVLATGPTSNNRWVSRsATAQRRKERLRQHSEHVGLDNDL
 REKYMqEARSLGKNLRQPKLSDLSPAVIAQTNCKFVEGLLKECRMKTKRMLVEKMGHEAVELGHGEANIT
 GLEENTLIASLCDLLERIWSHGLQVQKGSALWSHLIQfQDREEKQEHLaESPVALGPERRKSDSGVMLP
 TLRVSLIQDMRHIQNMSEIKTDVGRARAWIRLSLEKKLLSQHLKQLLSNQPLTKKLYKRYAFLRCEEERE
 QFLYHLLSLNAVDFCFTSVFTTIMIPYRSVIIPIKKLSNAIITSNPWICVSGELGDTGVMQIPKNLLEM
 TFECQNLGKLTTVQIGHDNSGLLAKWLVDcVMVRNEITGHtyRFPCGRWLKGKIDDGSLERILIGELMTS
 ASDEdLVKQCRTPPQKSPttARRLSITSLTGKNNKPNAGQIQEGIGEAyNNIVKHfHKPEKERGSLTVL
 LCGENGLVAALeqVFHHGfKSARIFHKNVFIWDFIEKVVAYfETTDQILDNEDDLIQKSSCKTFCHyVN
 AINTAPRNIGKDGKFQILVCLGTRDLLPQWIPLLAECpAITRMYEESALLRDRMTVNSLIRILQTIQDF
 TIVLEGSlikGVDV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

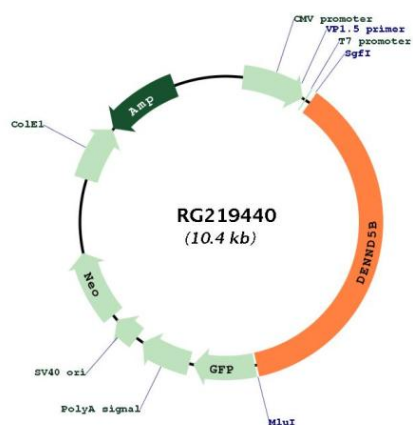


ACCN: NM_144973

ORF Size: 3822 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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.
RefSeq:	NM_144973.4
RefSeq Size:	9409 bp
RefSeq ORF:	3825 bp
Locus ID:	160518
UniProt ID:	Q6ZUT9
Cytogenetics:	12p11.21
Gene Summary:	Guanine nucleotide exchange factor (GEF) which may activate RAB39A and/or RAB39B. 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 RG219440