

Product datasheet for RC219440

DENND5B (NM_144973) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DENND5B (NM_144973) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DENND5B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219440 representing NM_144973 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

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 CCAGAGTCCTTTGAGAAGAACATTCAAATCCAAAGTTCTCGCCCACTATCCTCAGAATATAGAATGGAAC
 CCTTTTGATCAAGATGCGGTGAACATGTTGTGCATGCCAAAGGGCTATCTTTCAGGACACAAACGGACA
 ATAAAGACCCCGAGTTTCACTCATTTATAATTACCAGGGAAGATGGTTCTCGCACCTATGGTTTTGTCT
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 GCTGAGCATTACAGCAGTGTGTATGCTTCATCTTCTGCAGTATGGACTCATTGGCAAGTAGTCTTGATG
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 GCCCATTTACCTGCTTCTCTGCTACATTTTCTTGATGCTCCTGTCCCTATCTGATGGGCCTTCAGTCA
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GATGCAGAACTTTGACAAAGCTTCCTTTCTGTCTGACCAGCCTGAGCCTTACCTGCCATTTCTTTACGCTTCATTGAAACACAGATGTTTGCCACCTTTATTGATAATAAAATTATGTCTCAGTGGGAAGAGAAAGATCCTTTGCTTCGGGTCTTTGACACTCGGATTGATAAGATAAGGCTGTATAATGTAAGGGCACCCACCTTGCGGACATCTATATATCAGAAATGCAGCACTTTAAAGAAGCAGCCCAATCAATTGAGCAGAGACTGATGAAAATGGATCACACTGCAATCCACCCACATCTACTTGATATGAAAATTGGTCAAGGCAAAATATGAGCAGGGGTCTTTCCAAAGTTACAGTCCGATGTCTTGGCAACAGGACCAACCAGTAACAATCGCTGGGTAAGTCGGAGTGCCACTGCACAGCGCAGGAAAGAACGCCTTCGCCAGCATTCTGAGCATGTTGGGCTGGACAACGACTTGAGGGAGAAATATATGCAAGAGGCACGAAGTTTAGGAAAAAACCTGAGGCAACCCAACTGTCAGACCTCTCTCCTGCAGTTATTGCACAGACCAACTGTAAATTCGTAGAAGGCTTATTAAGAAGATGTAGAATGAAGACAAAGCGCATGTTGGTGGAGAAGATGGGACATGAAGCGGTGGAACCTGGCCATGGAGAAGCAAAATCACCAGCCTGGAGGAGAACACCTTGATCGCCAGCCTTTGTGACCTGCTGGAGAGGATATGGAGCCATGGCTTGCAGGTCAAGCAGGGGAAGTCGGCTTTGTGGTCACATTTAATTCATTTTCAGGACAGAGAAGAGAAACAAGAGCACCTTGCAAGATCACCAGTTGCCCTCGGACCAGAAAGAAGAAATCTGACTCAGGAGTTATGTTGCCACGCTCAGGGTCTCTCTTATTAGGACATGAGGCATATTCAAAACATGAGTGAGATCAAGACTGATGTTGACGAGCTCGGGCTGGATAAGACTGTCTCTAGAAAAGAAGCTCTGTCCAGCATCTTAAGCAGTTGCTTCTAACCAACCACTCACCAAGAAGCTTTATAAGCGATATGCTTTTCTACGTTGCCAAGAAGAAAGAGAGCAGTTTCTTTACCACCTTCTTTCTCTCAATGCTGTGGACTATTTCTGCTTACCAGTGTGTTACCACTATCATGATTCCGTATAGGTCAGTGATCATCCCAATCAAAAAGCTGAGCAATGCAATAATCATACAAACCTTGATCTGTGTATCAGGAGAGCTGGGAGACACAGGAGTAATGCAGATTCACCAAAACCTCCTCGAAATGACCTTTGAGTGCCAGAACTTGGGAAGCTGACCACTGTTGAGATTGGTCACGATAACTCAGGACTGTTAGCCAAATGGCTAGTGGATTGTGTCATGGTCAGAAATGAAATCACAGGACATACATACAGATTCCCATGTGGCGGGTGGCTGGGAAAGGCATTGATGATGGGAGCCTGGAGAGAATTCTTATTGGAGAGTTGATGACATCAGCATCAGATGAAGATCTAGTAAAGCAGTGTGCGACTCCACCCAGCAGAAGTCACCCACCACGGCTAGGAGATTGAGCATCACTTCACTGACAGGAAAAACAACCAACCAATGCTGGGCAGATACAAGAAGGAATTGAGAAGCTGTGAACAATATTGTGAAACATTTTCATAAACCTGAAAAAGAGAGAGGAAGCCTCACCGTGTTGCTGTGTGGAGAAAATGGCCTGGTTGCAGCCCTTGAGCAAGTTTTCCACCATGGGTTCAAATCTGCCCGCATCTTTACAAGAATGTCTTCATCTGGGACTTCATAGAGAAAGTGGTTGCTTATTTTGAAACAACGACCAATTCTAGATAATGAAGATGATGTCCTTATTCAGAAATCATCCTGCAAAACCTTCTGCCACTACGTAATGCTATTAATACTGCACCCAGGAACATTGGGAAGGATGGCAAATTCAGATTTTAGTTTGCCTTGGAACAAAGGATCGCCTGCTCCACAGTGGATTCCATTGTTAGCTGAGTGTCTGCCATCACTCGAATGTATGAAGAGAGCGCTCTCCTGCGAGACCGCATGACTGTCAACTCCCTTATCCGAATTCTGCAGACCATTCAGGACTTCAACATAGTCCTAGAAGGATCACTCATCAAAGGAGTGGATGTG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219440 representing NM_144973
Red=Cloning site Green=Tags(s)

MSGSCAAPGPGSGSSPAACRFAHYFVLCGIDADSGLEPDELAGENFDQSPLRRTFKSKVLAHYPQNIewn
 PFDQDAVNMLCMPKGLSFRTQTDNKDPQFHSFIITREDGSRTYGFVLTfYEEVTSKQICTAMQTLyQMHN
 AEHYSSVYASSSCMSDSLASSLDEGDTTSLKLQRYNSYDISRDTLYVKSICLITPLPFMQACKKFLIQ
 LYKAVTSQQPPPLPLESYIHNILYEVPLPPGRSLKFYGVYEPVICQRPGPSELPLSDYPLREAFELLGL
 ENLVQVFTCVLLEMQILLYSQDYQRLMTVAEGITTLFFPQWQHVVYPILPASLLHFLDAPVPYLMGLQS
 KEGTDRSKLELPQEANLCFVDIDNHFIELPEEFQPFQPNKVDFIQELSEVLVQFGIPPEGSLHCSESTSKL
 KNMVLKDLVNDKKNVCTNNISMYELLKGNETIARLQALAKRTGVAVEKMDLSASLGEKDKDLKLHCEE
 AELRDYQLNVQLREVfANRFTQMFADYEAfVIQTAQDMESWLTNREQMQNFDKASFLSDQPEPYLPFLSR
 FIETQMFATfIDNKIMSQWEEKDPLLRFVDTRIDKIRLYNVRAPTLRTSIYQKCSTLKEAAQSIEQRLMK
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 GLEENTLIASLCDLLERIWSHGLQVQKGKSALWSHLIQFDREKQEHLaESPVALGPERRKSDSGVMLP
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 ASDEDLVKQCRTPPQKSPttARRLSITSLTGKNNKPNAGQIQEGIGEAVNNIVKHfHKPEKERGSLTVL
 LCGENGLVAALeqVFHHGfKSARIFhKNVFIWDFIEKVVAYfETTDQILDNEDDLVIQKSSCKTFCHYVN
 AINTAPRNIGDKGfQILVCLGTRDRLLPQWIPLLAECPAITRMYEESALLRDRMTVNSLIRILQTIQDF
 TIVLEGS LIKGVdV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8019_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

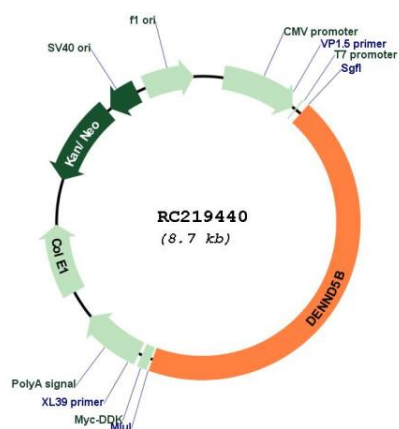


ACCN: NM_144973

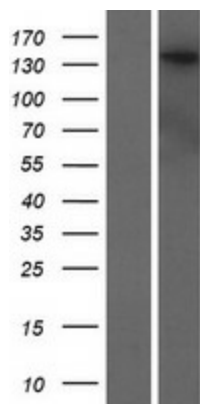
ORF Size: 3822 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_144973.4
RefSeq Size:	9409 bp
RefSeq ORF:	3825 bp
Locus ID:	160518
UniProt ID:	Q6ZUT9
Cytogenetics:	12p11.21
MW:	144.8 kDa
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 RC219440



Western blot validation of overexpression lysate (Cat# [LY408114]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219440 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).