

## Product datasheet for SC116754

### DENND2B (NM\_005418) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DENND2B (NM_005418) Human Untagged Clone
Tag:	Tag Free
Symbol:	DENND2B
Synonyms:	HTS1; p126; ST5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_005418 edited  
AGCGGGGGGTCGGGGTCGGGGCTGGGGCTGAGGACTGAGTCGAGCCAGCAGCCCAG  
GGCATCTGTCCACGCTGTGAGAGGAGCCTCTGGGCGTGGGGCTGGCCCTTAGAGGGCTAC  
TGCCTGTCTTAACCTTGCCTTTCACAGAAAACCACTGGAGGAGATACTCACAAAAATGAAG  
GGGAAGAACAGGAAACAGGAAGACATGAGATGAAGGAAACAGGAGATTCAACATGGATTT  
CACACCCTTTGGAGAGTTTCTTTCTTGGATAATTGAGGAGATGAGAGACTGCTTAGGCG  
CCACCACTAGTACCATGAGTCCCTGCACTGGTTAAAGCCATCGCCACAACCTGGACAGGC  
AGCAAGGGCTCTGGGTTTGCAGAGAGCCGAAATGACCATGACTGCCAACAAGAATTCCAG  
CATCACCCACGGAGCTGGTGGCACTAAAGCCCCTCGGGGACTCTGAGCAGGTCTCAGTC  
AGTCTCTCCACCTCCAGTCTCTCCCAAGGAGTCCCATCTACCCGCTCAGTGATAG  
TGAAACCTCAGCTGCAGGTACCCAGCCACTCCAGCTCCGGGTGCTCCTCAAGGACCG  
GCACCCCCAGCTCCTTACCCCAAGATCCTCAAGATCCCTCCCAAGATACTTCCCAACC  
CACCTGTCCCTTCAAGACCGCCAGCTTCGGTTATTTGGACAGAAGCCCTTCGGCGTGCAA  
GAGAGACGCCAAAAGGAAAGTGTCCAAGGCGCAGCCAGGATGTAGCAGGGGTGCTGTC  
CTGCCTCCCTTGGCCAGAGCAGCCATTCCCGGGCCAGCAGCTGGCCCCGGGGCGT  
CTTGCTGACCCGTACCGGTACCCGCGCCACAGCCTGGGCATCCGGGAGAAGATATCAGC  
ATGGGAAGGTGCGCGAGAGGCGTCGCCAGGATGAGCATGTGTGGAGAGAAGCGGGAGGG  
CTCTGGGAGCGAGTGGGCGCCAGTGGGGCTGCCCAAGCCTGGGCTGTCCAGCGTGGT  
GCCCTCCCTGCAGCTCTGAAAAGACCTTTGATTTCAAGGGCCTCCGGAGGATGAGCAG  
GACCTTCTCCGAGTGTCTACCCAGAGACTGAGGAGGAGGAGAGGCGCTCCCTGTCCG  
GGACTCTTTTACCGGCTGGAGAAACGGCTGGGCGGAGTGAGCCAGCGCCTTCTCAG  
GGGCGATGGCAGCAGGAAGGAGAGCTCAGCAGTGTGAGCCGGATCCAGAAAATTGAACA  
GGTCTGAAAGGAGCAGCCGGCCGGGGCTCCCAAGCTCCCAAGCAGCTGCTACAGCGT  
GGACCGGGGAAAAGGAACACTGGAACCTTGGGCTCCTTGGAGGAGCCGGCAGGGGGCGC  
GAGTGTGAGCGTGGCAGCCGGCAGTCGGAGTGGTGGTGTGGGGGAGGCGGGGCC  
ACCCCAAGAGAGGGAAGGAGTGGTCCACTAAGCCGGGACCCCTGGAATAGCCCTAG  
CTCCAGCGGCTGCCATCGAAGAGTTCCTCGATCCCGCTGTGAACCCTGTCCCAAAACC



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CAAGCGCACCTTTGAATACGAGGCTGACAAGAACCCCAAGAGTAAGCCCAGTAATGGTCT  
 ACCTCCTTACCCACACCTGCTGCTCCACCTCCCTTGCCCTCCACCCAGCCCGCCAGT  
 CACCCGGAGACCAAGAAGGACATGCGTGGTCACCGCAAGTCCCAGAGCAGAAAACTCTT  
 TGAGTTTGAGGATGCATCCAGTCTCCAGTCCCTGTACCCCTCTTCTCCACTGAGAATGG  
 TACTGAGAACCAACCAAGTTTGGATCCAAAAGCACTTTAGAAGAAAAATGCCTATGAAGA  
 TATTGTGGGAGATCTGCCAAGGAGAATCCATATGAGGATGTGGACTTAAAGAGCCGAAG  
 AGCAGGACGAAAAATCCCAGCAACTGTCTGAGAACTCCTTGGACTCTTTCACAGGATGTG  
 GAGTCTCAGGACAGGAAGTACAACAGCCCGCCACACAGCTTTCCCTGAAACCCAAACAG  
 CCAAGTCCCTGCGCAGTGGAACTGGTCAAGAAAGGAGCCACCGGCTGCCACGATTACC  
 CAAGAGGCACAGCCATGACGACATGCTGCTGCTGGCTCAGCTGAGTCTGCCGTCTCACC  
 CTCCAGCCTCAATGAAGACAGCCTCAGCACCACCAGCGAGCTGCTGTCCAGCCGCGGGC  
 CCGCCGATTCCCAAGCTTGTCCAAAGAACTAACTCCATCTACAATGCCAAGAGAGGAAA  
 GAAGAGATTA AAAAGTTGTCTATGTCCAGCATTGAAACAGCATCACTGAGAGATGAAAA  
 CAGTGAGAGCGAGAGCGACTCTGATGACAGGTTCAAAGCCACACACAGCGCCTGGTCCA  
 CATCCAGTCGATGCTGAAGCGCGCCCCAGCTATCGCACGCTGGAGCTGGAGCTGCTGGA  
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 GGAAGATGGCGGCAGACGCTTTGGCTACTGCAGGCGCTTACTGCCAAGTGGGAAAGGGCC  
 CCGGTTGCCAGAGGTGTACTGTGTATCAGCCGCTTGGCTGCTTCGGCTTGTTCCTCAA  
 GGTCTAGATGAGGTGGAGCGCCGGCGTGGGATCTCCGCTGCATTGGTCTATCCTTTTCA  
 TGAAGATCTCATGGAGTCGCCCTTCCAGCCCAAGGAAAGCCATCAAAGTGAAGACATT  
 CCTGCCAGGTGCTGGCAATGAGGTGTTAGAGCTGCGGCGGCCATGGACTCAAGGCTGGA  
 GCACGTGGACTTTGAGTGCTTTTTACCTGCCTCAGTGTGCGCCAGCTCATCCGAATCTT  
 TGCTCACTGCTGCTGGAGCGCCGGTCATTTTTGTGGCAGATAAGCTCAGTACCCTCTC  
 CAGCTGCTCCACGCGGTGGTGGCTTGTCTACCCCTTCTCCTGGCAGCACACCTTCAT  
 TCCTGTCTCCCGGCTCCATGATTGACATCGTCTGCTGTCCACCCCTTCTGCTGGTGG  
 CCTGCTCTCCAGTCCCTCCCAAACTGAAGGAGCTGCCTGTGGAGGAGGCGCTGATGGT  
 GAATCTGGGATCTGACCGATTTCATCCGACAGATGGACGACGAAGACAGTGTACCTAG  
 GAAGTTACAGGCAGCTCTGGAGCAGGCTCTGGAGAGGAAGAATGAGCTGATCTCCAGGA  
 CTCTGACAGCGACTCCGACGATGAATGTAATACCCTCAATGGGCTGGTGTGCGAGGTGTT  
 TATCCGGTTCTTTGTGGAGACCGTTGGGCACTACTCCCTCTTTCTGACACAGAGTGAGAA  
 GGGAGAGAGGGCCTTTCAGCGAGAGGCCTTCCGCAAACTGTGGCCTCCAAAAGCATCCG  
 CCGCTTTCTTGAGGTTTTATGGAGTCTCAGATGTTTGTGGCTTCAATCAAGACAGGGA  
 GCTAAGAAAGTGTGCGGCAAGGGCCTTTTTGAGCAGCGAGTGGAGCAGTACTTAGAAGA  
 ACTCCAGACACTGAGCAGAGTGAATGAATAAGTTTCTCCGAGGTTTGGGCAACAAAAT  
 GAAGTTTCTCCACAAGAAGAATTAAGCCTCCTTCTCAGTAGCAGAGTCCAGTGCCTTGA  
 GAGCCTGAAGCCTGGGGAGAAGGCCAGCCTGGGACCCTCTGGGCTGCTGTGGCTCCTCT  
 GCCCCACAGATCCTATCCTCAAGCCAGCCACCTCTGCCTTCATCATATCCCAGGATA  
 CTGTTTGTAAATAATCTGCTGTAAGCTTTCTTAACTGTTTTTGTAAAGCAAGAGAA  
 TATGGCAATATTTGTATATTCCCAAGGGGCGGGTGTCTTCTGCTGCTGCCAGAGCATG  
 GATGAAGTTTCGCTGGTGTCTGACTGGCCAGTTTTGTGCAGCTGACTGTCTCAGCCA  
 AACCACTGATCTTCCCTGGAGGCCTTCGGCCTGCCTGCCTGCCTGAGGTCCCCGCT  
 GCCAGTCCCGGGCCTGGAGAGCAGATGCTGTCTGTTATGTACAGGAGGACCTTTTAAA  
 AAAATCAAGTTTCTATTTTTTGTGGTAGTCCGCATACCCATACCCTCTGTTTTTGAAG  
 GCAAAGGCCAATCAGTCCCATTGTAGCATGGCACCAGGCTTCTAGGCCTAGTCTCTC  
 ATTCTCCACCCCTCCGAGATGGTCAAGTGTGTCATGGGAAGCCACCCCAAGCTCTGCCA  
 GTGCTCTCTGGGCTGGCTCCAGTCAAGTGGTGGCCACGATGCGGTACAGGGCATCCCTC  
 CTCCATCTACGGGTGTTCTCAATAAACAATGTACAGTTGTTTGGGCAAAAAAAAAAAAA  
 AAA

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_005418
<b>Insert Size:</b>	4600 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to contain 2 SNPs compared with NM_005418.3.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005418.3</a> , <a href="#">NP_005409.3</a>
<b>RefSeq Size:</b>	4571 bp
<b>RefSeq ORF:</b>	3414 bp
<b>Locus ID:</b>	6764
<b>UniProt ID:</b>	<a href="#">P78524</a>
<b>Cytogenetics:</b>	11p15.4
<b>Domains:</b>	DENN, dDENN, uDENN
<b>Gene Summary:</b>	<p>This gene was identified by its ability to suppress the tumorigenicity of HeLa cells in nude mice. The protein encoded by this gene contains a C-terminal region that shares similarity with the Rab 3 family of small GTP binding proteins. This protein preferentially binds to the SH3 domain of c-Abl kinase, and acts as a regulator of MAPK1/ERK2 kinase, which may contribute to its ability to reduce the tumorigenic phenotype in cells. Three alternatively spliced transcript variants of this gene encoding distinct isoforms are identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1), also known as p126, represents the longest transcript and encodes the longer isoform (1).</p>