

Product datasheet for **RG218527**

DENND2B (NM_005418) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DENND2B (NM_005418) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DENND2B
Synonyms:	HTS1; p126; ST5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218527 representing NM_005418 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCATGACTGCCAACAGAATTCCAGCATCACCCACGGAGCTGGTGGCACTAAAGCCCCTCGGGGA
CTCTGAGCAGGTCTCAGTCAGTCTCTCCACCTCCAGTTCTCTCCCAACCAAGGAGTCCCCTACCCGCT
CAGTGATAGTGAAACCTCAGCCTGCAGGTACCCAGCCACTCCAGCTCCCGGTGCTCCTCAAGGACCGG
CACCCCCAGCTCCTTACCCCAAGATCCTCAAGATCCCTCCCAAGATACTTCCCAACCCACTGTCCCT
TCAAGACCGCCAGCTTCGGTTATTTGGACAGAAGCCCTTCGGCGTGCAAGAGAGACGCCAAAAGGAAAG
TGTCCAAGGCGCAGCCCAGGATGTAGCAGGGGTGCTGCCTGCCTCCCTTGCACAGACAGCCATTC
CCGGGGCCAGCAGCTGGCCCCGGGGCGTCTTGCTGACCCGTACCGGTACCCGCGCCACAGCCTGGGCA
TCCGGGAGAAGATATCAGCATGGGAAGGTGCGCGAGAGGCGTGCAGGATGAGCATGTGTGGAGAGAA
GCGGGAGGGCTCTGGGAGCGAGTGGCGGCCAGTGAGGGCTGCCAGCCTGGGCTGTCCAGCGTGGTG
CCGTCCCCTGCAGCTCTGAAAAGACCTTTGATTTCAAGGGCCTCCGAGGATGAGCAGGACCTTCTCCG
AGTGTTCCTACCCAGAGACTGAGGAGGAGGAGAGGCGCTCCCTGTCGGGACTCTTTCTACCGGTGGA
GAAACGGCTGGGCCGGAGTGAGCCAGCGCCTTCTCAGGGGCGATGGCAGCAGGAAGGAGAGCTCAGCA
GTGCTGAGCCGGATCCAGAAAATTGAACAGGTCTGAAGGAGCAGCCGGGCGGGGCTCCCCAGCTCC
CCAGCAGCTGCTACAGCGTGGACCGGGGAAAAGGAAGACTGGAACCTTGGGCTCCTTGGAGGAGCCGGC
AGGGGGCCGAGTGTGAGCGCTGGCAGCCGGGCGTGGAGTGGTGGTGTGCGGGGAGGCGGGCCCA
CCCCAGAGAGGGAAGGAGTGGTTCCTAAGCCGGGACCCTGGAATAGCCCTAGCTCCCAGCGGC
TGCCATCGAAGAGTTCCCTCGATCCCGCTGTGAACCTGTCCCAAAACCAAGCGCACCTTTGAATACGA
GGCTGACAAGAACCCCAAGAGTAAGCCAGTAATGGTCTACCTCCTTACCCACACTGTGCTCCACT
CCCTTGCCTCCACCCAGCCCCGCGAGTACCCGGAGACCAAGAAGGACATGCGTGGTACCGCAAGT
CCCAGAGCAGAAAATCCTTTGAGTTTGGAGTGCATCCAGTCTCCAGTCCCTGTACCCTCTTCTCCAC
TGAGAATGGTACTGAGAACCAACCAAGTTGGATCCAAAAGCACTTTAGAAGAAAATGCCTATGAAGAT



[View online »](#)

ATTTGGGAGATCTGCCAAGGAGAATCCATATGAGGATGTGGACTTAAAGAGCCGAAGAGCAGGACGAA
 AATCCCAGCAACTGTCTGAGAACTCCTTGGACTCTTTCACACAGGATGTGGAGTCCTCAGGACAGGAAGTA
 CAACAGCCCGCCACACAGCTTCCCTGAAACCAACAGCCAGTCCCTGCGCAGTGGAACTGGTCAGAA
 AGGAAGAGCCACCGGCTGCCACGATTACCAAGAGGCACAGCCATGACGACATGCTGCTGGCTCAGC
 TGAGTCTGCCGTCTCACCTCCAGCCTCAATGAAGACAGCCTCAGCACCACCAGCGAGCTGCTGTCCAG
 CCGCCGGGCGCCGCTTCCCAAGCTTGTCCAAGAATTAATCCATCTACAATGCCAAGAGAGGAAAG
 AAGAGATTAATAAAGTTGTCTATGTCCAGACTTGAACAGCATCACTGAGAGATGAAAACAGTGGAGCG
 AGAGCGACTCTGATGACAGGTTCAAAGCCACACACAGCGCTGTCCACATCCAGTCGATGCTGAAGCG
 CGCCCCAGCTATCGCACGCTGGAGCTGGAGCTGCTGGAGTGGCAGGAGCGGGAGCTTTTTGAGTACTTT
 GTGGTGTGTCCCTCAAGAAGAAGCCATCGCGAAACACCTACCTCCCCGAAGTCTCTACCAGTTTCCCA
 AGCTGGACCGACCACCAAGCAGATGCGAGAGGCAGAGGAAAGGCTCAAAGCCATTTCCAGTTTGTCT
 CCCTGATGCCAAGGACTGGCTTCTGTGCAGAGTATAGCAGTGGAGCTTTTCTTTCATGCTGACTGGG
 GAAGATGCGCAGCAGACGCTTTGGCTACTGCAGGCGTACTGCCAAGTGGGAAAGGGCCCGGTTGCCAG
 AGGTGACTGTGCATCAGCCGCTTGGCTGCTTCGGCTTGTTCCTCAAGTCTAGATGAGGTGGAGCG
 CCGGCGTGGGATCTCGCTGCATTGGTCTATCCTTTTCATGAGAAGTCTCATGGAGTGCCTTCCCAGCC
 CCAGGGAAGACCATCAAAGTGAAGACATTCCTGCCAGGTGCTGGCAATGAGGTGTAGAGCTGCGGCGGC
 CCATGGACTCAAGGCTGGAGCAGTGGACTTTGAGTGCCTTTTTACCTGCCTCAGTGTGCCAGGCTCAT
 CCGAATCTTTCCTCACTGCTGCTGGAGCGCGGGTCATTTTGTGGCAGATAAGCTCAGTACCCTCTCC
 AGCTGCTCCCACGCGGTGGTGGCCTTGTCTACCCCTTCTCTGGCAGCACACCTTATTCTGTCTCC
 CGGCTCCATGATTGACATCGTCTGCTGTCCACCCCTTCTCTGGTTGGCTGCTCTCCAGCTCCCTCCC
 CAACTGAAGGAGCTGCCTGTGGAGGAGCGCTGATGGTGAATCTGGGATCTGACCGATTATCCGACAG
 ATGGACGACGAAGACACGTTGTTACCTAGGAAGTTACAGGCAGCTCTGGAGCAGGCTCTGGAGAGGAAGA
 ATGAGCTGATCTCCAGGACTCTGACAGGACTCCGACGATGAATGTAATACCCTCAATGGGCTGGTGTG
 GGAGGTGTTTATCCGTTCTTTGTGGAGACCGTTGGGCACTACTCCCTCTTTCTGACACAGAGTGAAGA
 GGAGAGAGGGCTTTTCAGCGAGAGGCTTCCGCAATCTGTGGCCTCCTCAAAGCATCCGCGCTTTCTTG
 AGGTTTTTATGGAGTCTCAGATGTTTGGCTTTCATCCAAGACAGGAGCTAAGAAAGTGTGGGCAAA
 GGGCTTTTTGAGCAGCGAGTGGAGCAGTACTTAGAAGAATCCAGACACTGAGCAGAGTGAATGAAT
 AAGTTTCTCCGAGTTTGGGCAACAAAATGAAGTTTCTCCACAAGAAGAAT

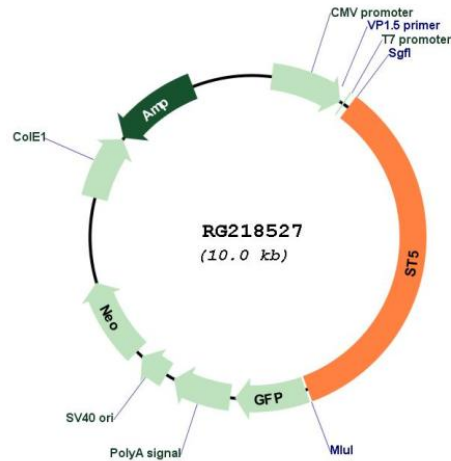
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218527 representing NM_005418
 Red=Cloning site Green=Tags(s)

MTMTANKNSSITHGAGGTKAPRGLSRSQSVSPPPVLSPPRSPYIPLSDSETSACRYPSHSSSRVLLKDR
 HPPAPSPQNPQDPSPTSPPTCPFKTASFGYLDSPSACKRDAQKESVQAAQDVAGVAACLPLAQSTPF
 PGPAAGPRGVLTRTGTRAHSLGIREKISAWEGRREASPRMSMCGEKREGSGSEWAASEGCPSLGCPSV
 PSPCSSEKTFDFKGLRRMSRTFSECSYPETEEEGEALPVRDSFYRLEKRLGRSEPSAFLRGHGRKESSA
 VLSRIQKIEQVLKEQPGRGLPQLPSSCYSDRGRKKTGLGSLEEPAGGASVSAGSRAVGVAGVAGEAGP
 PPEREGSGSTKPGTPGNSSPQLPSKSSLDPAVNPVPPKPKRTFEYEADKNPKSKPSNGLPPSPTAAPP
 PLPSTPAPPVTRRPKDMRGHRKSQSRKSFEDASSLQSLYPSPTENGTENQPKFGSKSTLEENAYED
 IVGDLPKENPYEDVDLKSRRAGRKSQQLSENLSLHRMWSQDRKYNPPTQLSLKPNSSQLRSGNWE
 RKSHRLLPRLPKRHSHDDMLLLAQLSLPSSPSSLNEDSLTTSSELLSSRRARRIPKLVQRINSIYNAKRGK
 KRLKLSMSSIETASLRDENSESESDSDRFKAHTQRLVHIQSMKRAPSYRTLELELLEWQERELFEYF
 VVSLKKKPSRNTYLPVSYQFPKLDKQREAEERLKAIPQFCFPAKDWPVSEYSSETFSFMLTG
 EDGSRRFGYCRLLPSGKGPRLPEVYCVISRLGCFGLFSKVLDEVERRRGI SAALVYPMRSLMESPPFA
 PKTIKVKTFPLPGAGNEVLELRPMDSRLEHVDFECLFTCLSVRQLIRIFASLLERRVIFVADKLSLTS
 SCSHAVVALLYPFSWQHTFIPVLPASMDIVCCPTPFLVGLLSSSLPKLKELPVEALMVNLGSDRFIRQ
 MDEDLTLPRKLQAALQALERKNELISQSDSDSDDECNTLNLVSEVFI RFFVETVGHYSLFLTQSEK
 GERAQREAFRKSVAASKSIRRFLEVFMSQMFAGFIQDRELKCRKAGLFEQRVEQYLEELPDTEQSGMN
 KFLRGLGNKMKFLHKKK

TRTRPLE - GFP Tag - V

Plasmid Map:


ACCN: NM_005418

ORF Size: 3411 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.

RefSeq: [NM_005418.4](#)

RefSeq Size: 4571 bp

RefSeq ORF: 3414 bp

Locus ID: 6764

UniProt ID: [P78524](#)

Cytogenetics: 11p15.4

Domains: DENN, dDENN, uDENN

Gene Summary: 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]