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Product datasheet for RG215600

DENND2B (NM_139157) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DENND2B (NM_139157) 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)

View online »

ORF Nucleotide Sequence:

>RG215600 representing NM_139157
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCATGACTGCCAACAAGAATTCCAGCATCACCCACGGAGCTGGTGGCACTAAAGCCCCTCGGGGGA
CTCTGAGCAGAAAATCCTTTGAGTTTGAGGATGCATCCAGTCTCCAGTCCCTGTACCCCTCTTCTCCCAC
TGAGAATGGTACTGAGAACCAACCCAAGTTTGGATCCAAAAGCACTTTAGAAGAAAATGCCTATGAAGAT
ATTGTGGGAGATCTGCCCAAGGAGAATCCATATGAGGATGTGGACTTAAAGAGCCGAAGAGCAGGACGAA
AATCCCAGCAACTGTCTGAGAACTCCTTGGACTCTTTGCACAGGATGTGGAGTCCTCAGGACAGGAAGTA
CAACAGCCCGCCCACACAGCTTTCCCTGAAACCCAACAGCCAGTCCCTGCGCAGTGGGAACTGGTCAGAA
AGGAAGAGCCACCGGCTGCCACGATTACCCAAGAGGCACAGCCATGACGACATGCTGCTGCTGGCTCAGC
TGAGTCTGCCGTCCTCACCCTCCAGCCTCAATGAAGACAGCCTCAGCACCACCAGCGAGCTGCTGTCCAG
CCGCCGGGCCCGCCGCATTCCCAAGCTTGTCCAAAGAATTAACTCCATCTACAATGCCAAGAGAGGAAAG
AAGAGATTAAAAAAGTTGTCTATGTCCAGCATTGAAACAGCATCACTGAGAGATGAAAACAGTGAGAGCG
AGAGCGACTCTGATGACAGGTTCAAAGCCCACACACAGCGCCTGGTCCACATCCAGTCGATGCTGAAGCG
CGCCCCCAGCTATCGCACGCTGGAGCTGGAGCTGCTGGAGTGGCAGGAGCGGGAGCTTTTTGAGTACTTT
GTGGTGGTGTCCCTCAAGAAGAAGCCATCGCGAAACACCTACCTCCCCGAAGTCTCCTACCAGTTTCCCA
AGCTGGACCGACCCACCAAGCAGATGCGAGAGGCAGAGGAAAGGCTCAAAGCCATTCCCCAGTTTTGCTT
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GAAGATGGCAGCAGACGCTTTGGCTACTGCAGGCGCTTACTGCCAAGTGGGAAAGGGCCCCGGTTGCCAG
AGGTGTACTGTGTCATCAGCCGCCTTGGCTGCTTCGGCTTGTTTTCCAAGGTCCTAGATGAGGTGGAGCG
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CAAACTGAAGGAGCTGCCTGTGGAGGAGGCGCTGATGGTGAATCTGGGATCTGACCGATTCATCCGACAG
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GGAGAGAGGGCCTTTCAGCGAGAGGCCTTCCGCAAATCTGTGGCCTCCAAAAGCATCCGCCGCTTTCTTG
AGGTTTTTATGGAGTCTCAGATGTTTGCTGGCTTCATCCAAGACAGGGAGCTAAGAAAGTGTCGGGCAAA
GGGCCTTTTTGAGCAGCGAGTGGAGCAGTACTTAGAAGAACTCCCAGACACTGAGCAGAGTGGAATGAAT
AAGTTTCTCCGAGGTTTGGGCAACAAAATGAAGTTTCTCCACAAGAAGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

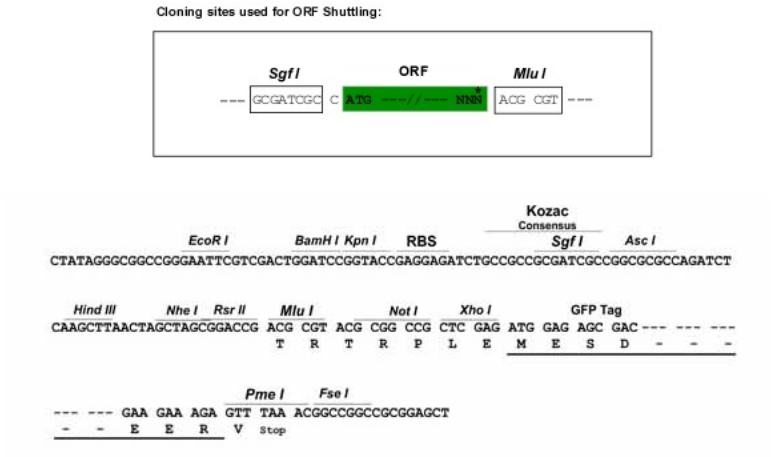
>RG215600 representing NM_139157
Red=Cloning site Green=Tags(s)

MTMTANKNSSITHGAGGTKAPRGTLSRKSFEFEDASSLQSLYPSSPTENGTENQPKFGSKSTLEENAYED
IVGDLPKENPYEDVDLKSRRAGRKSQQLSENSLDSLHRMWSPQDRKYNSPPTQLSLKPNSQSLRSGNWSE
RKSHRLPRLPKRHSHDDMLLLAQLSLPSSPSSLNEDSLSTTSELLSSRRARRIPKLVQRINSIYNAKRGK
KRLKKLSMSSIETASLRDENSESESDSDDRFKAHTQRLVHIQSMLKRAPSYRTLELELLEWQERELFEYF
VVVSLKKKPSRNTYLPEVSYQFPKLDRPTKQMREAEERLKAIPQFCFPDAKDWLPVSEYSSETFSFMLTG
EDGSRRFGYCRRLLPSGKGPRLPEVYCVISRLGCFGLFSKVLDEVERRRGISAALVYPFMRSLMESPFPA
PGKTIKVKTFLPGAGNEVLELRRPMDSRLEHVDFECLFTCLSVRQLIRIFASLLLERRVIFVADKLSTLS
SCSHAVVALLYPFSWQHTFIPVLPASMIDIVCCPTPFLVGLLSSSLPKLKELPVEEALMVNLGSDRFIRQ
MDDEDTLLPRKLQAALEQALERKNELISQDSDSDSDDECNTLNGLVSEVFIRFFVETVGHYSLFLTQSEK
GERAFQREAFRKSVASKSIRRFLEVFMESQMFAGFIQDRELRKCRAKGLFEQRVEQYLEELPDTEQSGMN
KFLRGLGNKMKFLHKKN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_139157

ORF Size: 2151 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_139157.3

RefSeq Size: 3039 bp

RefSeq ORF: 2154 bp

Locus ID: 6764

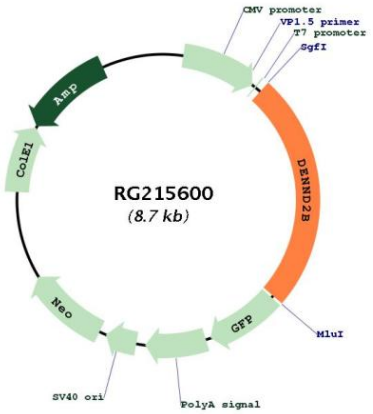
UniProt ID: P78524

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]

Product images:



Circular map for RG215600