

Product datasheet for **RC215600**

DENND2B (NM_139157) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DENND2B (NM_139157) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DENND2B
Synonyms:	HTS1; p126; ST5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC215600 representing NM_139157
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCATGACTGCCAACAGAATTCCAGCATCACCCACGGAGCTGGTGGCACTAAAGCCCCTCGGGGA
 CTCTGAGCAGAAAATCCTTTGAGTTTGGAGATGCATCCAGTCTCCAGTCCCTGTACCCCTTCTCCCAC
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 CAACAGCCCGCCACACAGCTTTCCTGAAACCAACAGCCAGTCCCTGCGCAGTGGAACTGGTCAGAA
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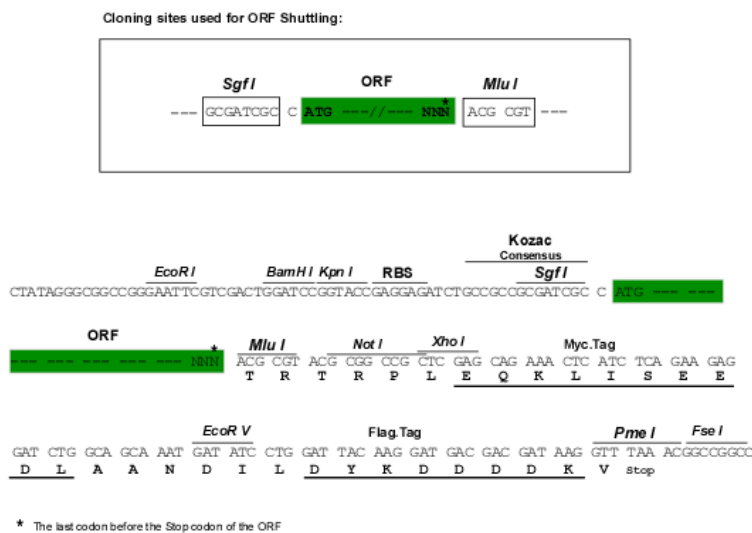
Protein Sequence: >RC215600 representing NM_139157
Red=Cloning site Green=Tags(s)

MTMTANKNSSITHGAGGTKAPRGTLSRKSFEFEDASSLQSLYPSSPTENGTENQPKFGSKSTLEENAYED
 IVGDLPKENPYEDVDLKSRRAGRKSQQLSENLSLHRMWSPOQRKYNPPTQLSLKPNSSQLRSGNWSE
 RKSHRLPRLPKRHSDDMLLLAQLSLPSSPSSLNEDSLSTSELLSSRRARRIPKLVQRINSIYNAKRGK
 KRLKLLSMSSIETASLRDENSESESDSDDRFKAHTQRLVHIQSMKRAPSYRTLELELELWQERELFEYF
 VVVSLLKKKPSRNTYLPEVSYQFPKLDPRTKQMRKAEERLKAIPQFCFPAKDWLVPSEYSSETFSFMLTG
 EDGSRRFGYCRLLPSGKGPRLPEVYCVISRLGCFGLFSKVLDEVERRRGI SAALVYPFMRSLMESPFPA
 PGKTIKVKTFPLGAGNEVLELRPMDSRLEHVDFECLFTCLSVRQLIRIFASLLERRVIFVADKLSTLS
 SCSHAVVALLYPFSWQHTFIPVLPASMDIVCCPTPFLVGLLSSSLPKLKELPVEEALMVNLGSDRFIRQ
 MDDEDTLLPRKLQAALQALERKNELISQSDSDSDDECNTLNGLVSEVIRFFVETVGHYSLFLTQSEK
 GERAQREAFRKSVAASKIRRFLEVFMSQMFAGFIQDRELKCRACKGLFEORVEQYLEELPDTEQSGMN
 KFLRGLGNKMKFLHKKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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](#)

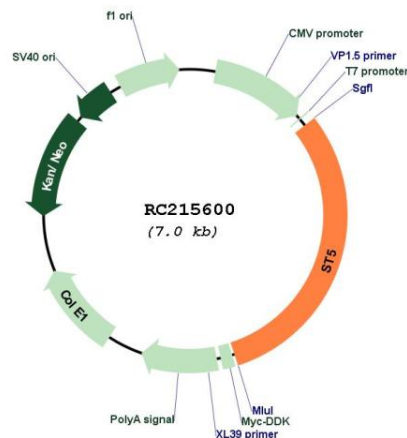
Cytogenetics: 11p15.4

Domains: DENN, dDENN, uDENN

MW: 81.9 kDa

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 RC215600