

Product datasheet for **RG219011**

DENND2C (NM_198459) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DENND2C
Synonyms:	dJ1156J9.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG219011 representing NM_198459
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAAGTTGGTTTTCTCGTACTACTGTTTCAGACACTGTCAAGAAGCCACTGCAAAAACATCAAAACAA
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 CAGTATTTGAAAACAATTCCTGAGTCGGAGCCAGTGGGATGAATAGAATTTTGCAGGAGTCTTGAAGCA
 AATGAAATTTCTGCAAAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219011 representing NM_198459

Red=Cloning site Green=Tags(s)

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MEVGFSRTTVQTLRSCHKNIQKISQWEGRANGISNPEKWCPKDFGVRYNCHQEIRLKKNPPIAERKSKN
LDVTSRENVGLDINENTKSHDQSEENENKKHEYDDTHFFKNESESNWVCSRVEIESCKEDVLPETSLPP
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PKPRRTFRYLSSEGVTPYKERNCDKKYCENNSCAQSSSLASSQEPEPKKYGGKIRGRSKRKSFEFEDIQHF
RNRNSQTIREELGRNSGSALYYTQSEDNIIYEDIIYPTKENPYEDIPVQPLPMWRSPSAWKLPPAKSAFKA
PKLVLKIDDI FESKRGKKKVKLHSYTGKELPPTKGETSGNESDAEYLPKNRHKRLAQLQPSSKRNPYQT
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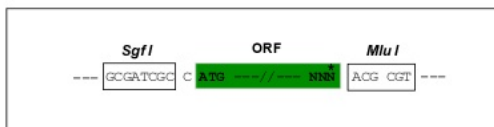
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoR I
BamH I *Kpn I*
RBS
Kozac Consensus
Sgf I
Asc I

CTATAGGGCGGCCGGGAATTCTGCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCATCGCCGGCGCCGCAGATCT

Hind III
Nhe I *Rsr II*
Mlu I
Not I
Xho I
GFP Tag

CAAGCTTAAC TAGTACGCGGACCG ACG CGT ACG CGG CGG CTC GAG ATG GAG ACG GAC --- --- ---
 T R T R P L E M E S D - - -

Pme I
Fse I

--- --- GAA GAA AGA GTT TAA ACGCGCGCCGCGGAGCT
 - - - E E R V Stop

ACCN: NM_198459

ORF Size: 2613 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_198459.2](#), [NP_940861.2](#)

RefSeq Size: 4745 bp

RefSeq ORF: 2616 bp

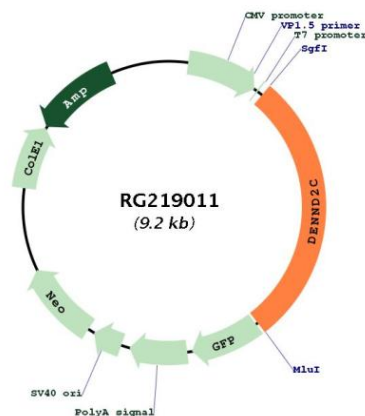
Locus ID: 163259

UniProt ID: [Q68D51](#)

Cytogenetics: 1p13.2

Gene Summary: Guanine nucleotide exchange factor (GEF) which may activate RAB9A and RAB9B. 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 RG219011