

Product datasheet for **RG204659**

DENND10 (NM_207009) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	DENND10
Synonyms:	FAM45A
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204659 representing NM_207009
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCGGCCGAGGTGGCGGACACTCAGCTGATGCTTGGAGTCGGGCTGATCGAAAAGGACACAAATG
GAGAAGTTCTGTGGGTGTGGTGTATCCTTCCACGACAGCCACATTAAGGAACCTGCTGCTGAGAAAATG
CTGCCTTACAGATGAAAACAACTTCTCCATCCCTTTGTCTTTGGTCAGTACAGAAGAACATGGTTTTAT
ATCACAACAATTGAAGTTCCAGATTCTCCATTTTGAAAAAGGTGACTCATTTTCTATTGTCCTGACCG
CCAAAGATTTTAAACCAGAGAAGTATGCTGCCTTCACTAGGATATTGTGTAGAATGTACCTGAAACATGG
GAGCCCAAGTTAAATGATGGAGAGTTATATTGCAGTTCTCACAAGGGGATATGCCAGAGTGAAGAAAAC
GGCTCTTTCCTTAGTAAGGATTTTGATGCCGAAAGGCCTACCTGGCTGGCTCCATCAAAGACATTGTAT
CTCAGTTTGAATGAAACTGTTATCTTACACACAGCACTGATGCTAAAGAAAAGAATTGTGGTGTATCA
CCCCAAGATAGAAGCGGTCCAGGAGTTCAACAGGACTCTGCCTGCCCTGGTGTGGCACCACAGGACTGG
ACCATCCTTCACTTTACGTGCACCTCAACGCCGATGAGCTGGAAGCCCTGCAGATGTGCACAGGTTACG
TCGCTGGATTTGTAGACTTGGAGGTGAGCAACAGACCAGACCTCTATGATGTGTTTGTGAATCTGGCAGA
GAGTGAGATTACCATTTGCTCCCTTGCAAAGAGGCCATGGCAATGGGCAAACTGCACAAAGAAATGGGT
CAGCTAATTGTTCAAGTCTGCAGAAAGATCCAGAGAAATCAGAGAGCCAGTTATACAGGATATTGCTCTAA
AAACAAGAGAAATCTTTACCACTAGCACCATTTTCAAGTTTTCGGCTGATGGAGAAAAGAGAGTCTCT
TAATTTGGAGGCGCTAAAGCAAAAACGATTTCCACCAGCAACAGAAAACCTCTTTATCATCTAGCAGCA
GCCGAACAAATGCTGAAAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



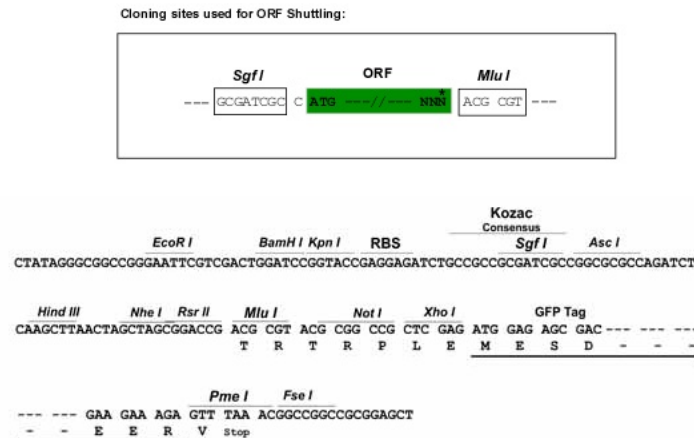
Protein Sequence: >RG204659 representing NM_207009
Red=Cloning site Green=Tags(s)

MAAAEVADTQLMLGVGLIEKDTNGEVLWVWCYPSTTATLRNLLLRKCCLTDENKLLHPFVFGQYRRTWFY
ITTIEVPDSSILKKVTHFSIVLTAKDFNPEKYAAFTRILCRMYLKHGSPVKMMESYIAVLTKGICQSEEN
GSFLSKDFDARKAYLAGSIKDIVSQFGMETVILHTALMLKKRIVVYHPKIEAVQEFTRTLPALVWHRQDW
TILHSYVHLNADELEALQMCTGYVAGFVDLEVSNRPDLYDFVNLAESEITIAPLAKEAMAMGKLHKEMG
QLIVQSAEDPEKSESHVIQDIALKTREIFTNLAPFSEVSADGEKRVNLLEALKQKRFPPATENFLYLHAA
AEQMLKI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207009

ORF Size: 1071 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_207009.2](#), [NP_996892.1](#)

RefSeq Size: 2192 bp

RefSeq ORF: 1074 bp

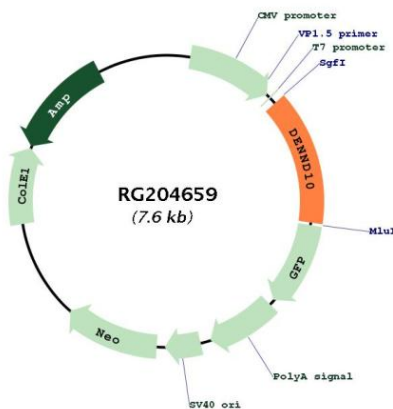
Locus ID: 404636

UniProt ID: [Q8TCE6](#)

Cytogenetics: 10q26.11

Gene Summary: Guanine nucleotide exchange factor (GEF) regulating homeostasis of late endocytic pathway, including endosomal positioning, maturation and secretion, possibly through activating Rab proteins such as RAB27A and RAB27B. Seems to promote the exchange of GDP to GTP, converting inactive GDP-bound RAB27A and RAB27B into their active GTP-bound form. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204659