

## Product datasheet for **RG235187**

### DIAPH3 (NM\_001258367) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DIAPH3 (NM_001258367) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DIAPH3
Synonyms:	AN; AUNA1; DIA2; diap3; DRF3; mDia2; NSDAN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235187 representing NM_001258367 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACGGCACCAGCCGCGCTGCACCACCCGGCCCAAGGCTCAGCCGCTGGGACTCCCTACCCTTCT  
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ATTAATGAGCTTCAAGCAGAGCTACAAGCTTTTAAAGTCTCAGTTTGGTGCCTTGCCAGCTGATTGTAATA  
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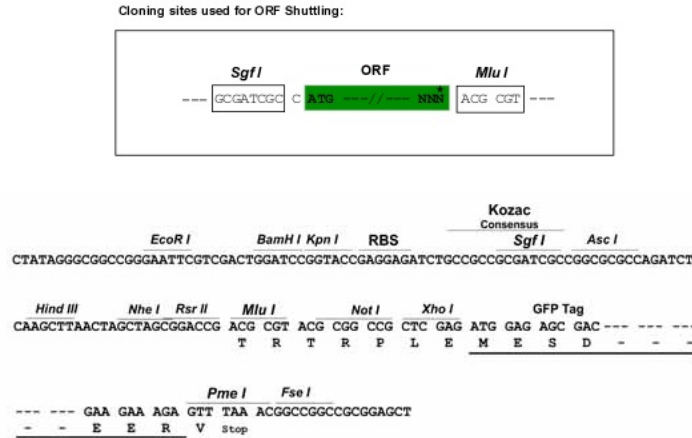
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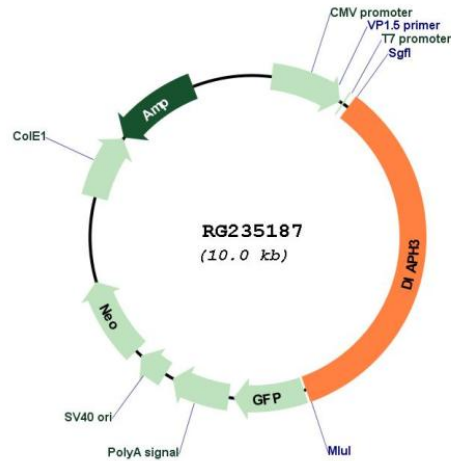
Protein Sequence: >RG235187 representing NM\_001258367  
 Red=Cloning site Green=Tags(s)

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 SADERLVTCLSLRVSLTSPVSWVESFGHEGLGLLLDILEKLSGKIQEKVVKKNQHVKIQCLKALMNT  
 QYGLERIMSEERSLSLLAKAVDPRHPNMMDVVKLLSAVCIVGEESILEEVLEALTSAGEEKKIDRFFCI  
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 KPDIMAVSTACEEIKKSKSFKLLELVLLMGNMAGSRNAQTFGNLSSLCKLKDTKSADQKTTLLHFL  
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 VISAKEQYETLSKLHENMEKLYQSIIGYYAIDVKKVSVEFLDLNFRFTTFMQAIKENIKKREAEKEEK  
 RVRIAKELAEERLERQQKKRLLLEMKTEGDETVMDNLEALQSGAAFRDRRKRTPMPKDVRSLSMPS  
 QRPVLKVCNHNQKVQLTEGSRSHYNINCSTRTPVAKELNYNLDTHSTGRIKAAEKKEACNVESNRKK  
 ETELLGSFSKNESVPEVEALLARLRAL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI  
 Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001258367

**ORF Size:** 3441 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\\_001258367.2](#)

**RefSeq Size:** 4674 bp

**RefSeq ORF:** 3444 bp

**Locus ID:** 81624

**UniProt ID:** [Q9NSV4](#)

**Cytogenetics:** 13q21.2

**Protein Pathways:** Regulation of actin cytoskeleton

**Gene Summary:** This gene encodes a member of the diaphanous subfamily of the formin family. Members of this family are involved in actin remodeling and regulate cell movement and adhesion. Mutations in this gene are associated with autosomal dominant auditory neuropathy 1. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]