

Product datasheet for **RG205246**

DIAPH3 (NM_030932) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIAPH3 (NM_030932) 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)



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ORF Nucleotide Sequence:

>RG205246 representing NM_030932
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGAGGAGAGGAGCCTTTCCTTATTGGTCAAAGCCGTGGATCCAGACACCCCAATATGATGACAG
 ATGTGGTTAAACTTCTCTCGCGTATGCATTGTAGGGGAAGAAAGCATCCTTGAAGAAGTTTTAGAAGC
 TTTAACTTCAGCTGGTGAAGAAAAAAATTTGACAGATTTTTTTGTATTGTGAAGGCTCCGGCACAAT
 TCAGTTCAACTGCAAGTAGCTTGTATGCAGCTCATCAATGCCCTGGTTACATCTCCTGATGATTTGGATT
 TCAGGCTTCACATCAGAAATGAATTTATGCGTTGTGGATTGAAAGAGATATTGCCAAATTTAAAATGCAT
 TAAGAATGATGGCCTGGATATCCAATTAAGTCTTTGATGAGCATAAAGAAGAAGATTTGTTTGGAGTTA
 TCCCATCGCCTGAAGATATTAGAGCTGAACCTGATGAAGCATATGATGTTTACAACATGGTGTGGAGCA
 CAGTTAAAGAACTAGAGCAGAGGGATTTTTATTCTATTCTTCAGCATCTGTTGCTGATTGAAATGA
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 TACCGACCACCAAGAACTCAGGCTGAATTGCAGAAAAAGAGGCAAAGATTAATGAGCTTCAAGCAGAG
 CTACAAGCTTTAAGTCTCAGTTTGGTGCCTTGCAGCTGATTGTAATATTCCTTGCCTCCCTCTAAAG
 AAGGTGGAAGTGGCCACTCAGCACTTCTCCTCCGCTCCACTGCCTTCTGGTGGAGGGGTGCCGCTCC
 ACCTCCTCCCCACCCTCCTCCTCCAGGAATGCGGATGCCATTGAGTGGTCTGTGCCTCCACCA
 CCTCCCCTGGGATTCTTGGAGGACAAAATTCCTCCTCTACCAATCCTGCCATTTGGTTGAAACCAA
 AGAAAGAATTTAAACCTGAAATCAGCATGAGAAGATTGAATTTGGTTAAAGATCAGACCTCATGAAATGAC
 TGAAAACTGTTTCTGGATAAAAGTAAATGAAAATAGTATGAAAACGTGGATTTGCTTTGTAACCTTGAG
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 ATAGCAACTTATGTGAACCTGAGCAGTTTGTGGTTGTGATGAGCAATGTGAAGAGACTACGGCCACGGCT
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 AGCAATAAAGGAGAATATCAAAAAAGAGAAGCAGAGGAAAAAGAAAAACGTGTCAGAATAGCTAAAGAA
 TTAGCAGAGCGAGAAAGACTCGAACGCCAACAAAAGAAAAAGCGTTTATTAGAAATGAAGACTGAGGGTG
 ATGAGACAGGAGTGTGATAATCTGCTGGAGGCTTGCAGTCCGGGGCTGCCTTCCGCGACAGAAGAAA
 AAGGACACCGATGCCAAAAGATGTTGCGCAGAGTCTCAGTCCAATGTCTCAGAGGCTGTTCTGAAAGTT
 TGAACCATGGTAATAAACCGTATTTA

ACCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >RG205246 representing NM_030932
 Red=Cloning site Green=Tags(s)

MSEERSLSLLVKAVDPRHPNMMTDVVKLLSAVCIVGEESILEEVLEALTSAGEEKKIDRFFCIVEGLRHN
 SVQLQVACMQLINALVTSPDDLDFRLHIRNEFMRCGLKEILPNLKCIKNDGLDIQLKVFDEHKEEDLFEL
 SHRLEDIRAELDEAYDVYNMVWSTVKETRAEGYFISILQHLLLRNDYFIRQQYFKLIDECVVSQIVLHRD
 GMDPDFTYRKRLDLDTQFVDICIDQAKLEEFEEKASELYKKFEKEFTDHQETAELQKKEAKINELQAE
 LQAFKSQFGALPADCNIPLPPSKEGGTGHSALPPPPPLPSGGGVPPPPPPPPPPPLPGMRMPFSGPVPPP
 PPLGFLGGQNSPPLPILPFLKPKKEFKPEISMRRLNWLKIRPHEMTECFWIKVVENKYENVDLLCKLE
 NTFCCQKERREEEDIEEKSIKKIKELKFLDSKIAQNL SIFLSSFRVPYEEIRMMILEVDETRLAESM
 IQNLIKHLPDQEQNLNSLQFKSEYNLCEPEQFVVMSNVKRLRPRLSAILFKLQFEEQVNNIKPDIMAV
 STACEEIKKSKSFSKLELVLLMGNYMAGSRNAQTGFNLSLCKLKDTKSADQKTTLLHFLVEICEEK
 YPDILNFVDDLEPLDKASKVSVETLEKNLRQMGRQLQLEKELETFPPPEDLHDKFVTKMSRFVISAKEQ
 YETLSKLHENMEKLYQSIIGYYAIDVKKVSVEDFLDLNFRFTTFMQAIKENIKKREAEKEKRVRIAKE
 LAERERLERQKKRLLLEMKTEGDETGVMNLLLEALQSGAAFDRRRKRTMPKDVRSLSLSPMSQRPVLKV
 CNHGKPYL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_030932

ORF Size: 2547 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_030932.3](#), [NP_112194.2](#)

RefSeq Size: 2745 bp

RefSeq ORF: 2550 bp

Locus ID: 81624

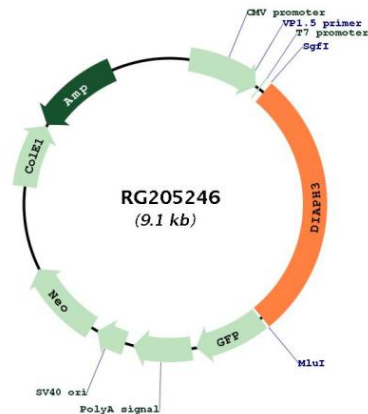
UniProt ID: [Q9NSV4](#)

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]

Product images:



Circular map for RG205246