

Product datasheet for **RG234724**

DIAPH3 (NM_001258370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIAPH3 (NM_001258370) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG234724 representing NM_001258370
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGAGGAGAGGAGCCTTTCCTTATTGGCCAAAGCCGTGGATCCAGACACCCCAATATGATGACAG
 ATGTGGTTAAACTTCTCTGCGGTATGCATTGTAGGGGAAGAAAGCATCCTTGAAGAAGTTTTAGAAGC
 TTTAACTTCAGCTGGTGAAGAAAAAATTGACAGATTTTTTTGTATTGTGAAGGCTCCGGCACAAT
 TCAGTTCAACTGCAAGTAGCTTGTATGCAGCTCATCAATGCCCTGGTTACATCTCCTGATGATTTGGATT
 TCAGGCTTCACATCAGAAATGAATTTATGCGTTGTGGATTGAAAGAGATATTGCCAAATTTAAAATGCAT
 TAAGAATGATGGCCTGGATATCCAACCTAAAGTCTTTGATGAGCATAAAGAAGAAGATTTGTTTGGATT
 TCCCATCGCCTGAAGATATTAGAGCTGAACCTTGATGAAGCATATGATGTTTACAACATGGTGTGGAGCA
 CAGTTAAAGAACTAGAGCAGAGGGATTTTTATTTCTATTCTTCAGCATCTTTTGTGATTGCAATGA
 TTATTTTATAAGCAACAATACTTCAAATTAATTGATGAGTGTGTATCCCAGATTGTATTGCATAGAGAT
 GGAATGGATCCAGACTTCACATATCGAAAAAGACTAGATTTAGATTTAACCCAGTTTGTAGACATTTGCA
 TAGATCAAGCAAACTAGAAGAGTTTGAAGAGAAAGCATCAGAACCTTTACAAGAAATTTGAAAAAGATT
 TACCGACCACCAAGAACTCAGGCTGAATTGCAGAAAAAGAGGCAAAGATTAATGAGCTTCAAGCAGAG
 CTAACAAGCTTTAAGTCTCAGTTTGGTGCCTTGCAGCTGATTGTAATATTCCTTTGCCTCCCTCTAAAG
 AAGGTGGAACGGCCACTCAGCACTTCTCCTCCGCTCCACTGCCTTCTGGTGGAGGGGTGCCGCTCC
 ACCTCCTCCCCACCCTCCTCCACTCCAGGAATGCGGATGCCATTGAGTGGTCTGTGCCTCCACCA
 CCTCCCCTGGGATTCTTGGAGGACAAAATTCCTCCTCTACCAATCCTGCCATTTGGGTTGAAACCAA
 AGAAAGAATTTAAACCTGAAATCAGCATGAGAAGATTGAATTGGTTAAAGATCAGACCTCATGAAATGAC
 TGAAAACTGTTTCTGGATAAAAGTAAATGAAAATAAGTATGAAAACGTGGATTTGCTTTGTAACCTTGAG
 AATACATTTTGTGCAACAAAAAGAGAGAAGAGAAGGAAGATATTGAAGAGAAGAAATCGATTAAGA
 AAAAAATTAAGAACTTAAGTTTTAGATTCTAAAATTGCCAGAACCTTTCAATCTTCTGAGCTCTTT
 TCGGGTGCCATATGAGGAAATCAGAATGATGATATTGGAAGTAGATGAAACACGGTTGGCAGAGTCTATG
 ATTCAGAACTTAATAAGCATCTTCTGATCAAGAGCAATTAATTCATTGTCTCAGTTCAGAGTGAAT
 ATAGCAACTTATGTGAACCTGAGCAGTTTGTGGTTGTGATGAGCAATGTGAAGAGACTACGGCCACGGCT
 CAGTGCTATTCTTTAAGCTTCAGTTTGAAGAGCAGGTGAACAACATCAAACCTGACATCATGGCTGTC
 AGTACTGCCTGCGAAGAGATAAAGAAGAGCAAAAGCTTTAGCAAGTTGCTGGAACCTGTATTGCTAATGG
 GAAACTACATGAATGCTGGCTCCCGAATGCTCAAACCTTCGGATTTAACCTTAGCTCTCTGTAAACT
 AAAGGACACAAAATCAGCAGATCAGAAAACAACGCTACTTCATTTCTGGTAGAAATATGTGAAGAGAAG
 TACCCTGATATACTGAATTTTGTGGATGATTTGGAACCTTTAGACAAAGCTAGTAAAGGTTTGTGCCTTT
 TTAAGAAACATTTTATGGCTCTGATCTTCAGTGCTAAAAGACTGAAAATATACCTTTTATTTGTATGTA
 CTTTCCACTTCTCACAGTGTTCATACCCAATATCTCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234724 representing NM_001258370
 Red=Cloning site Green=Tags(s)

```
MSEERSLSLLAKAVDPRHPNMMTDVVKLLSAVCIVGEESILEEVLEALTSAGEEKKIDRFFCIVEGLRHN
SVQLQVACMQLINALVTPDDLDFRLHIRNEFMRCGLKEILPNLKCIKNDGLDIQLKVFDEHKEEDLFEL
SHRLEDIRAELDEAYDVYNNMVWSTVKETRAEGYFISILQHLLLRNDYFIRQQYFKLIDECVSQLVHRD
GMDPDFTYRKRLDLDTQFVDICIDQAKLEEFEEKASELYKKFEKEFTDHQETAELQKKEAKINELQAE
LQAFKSQFGALPADCNIPLPPSKEGGTGHSALEPPPPPLPSGGVPPPPPPPPPPPLPGMRMPFSGPVPPP
PPLGFLGGQNSPPLPILPFGLPKKEFKPEISMRRLNWLKIRPHEMTECFWIKVNNENKYENVDLLCKLE
NTFCCQKERREEEDIEEKKSIIKKIKELKFLDSKIAQNLISFLSSFRVPYEEIRMMILEVDETRLAESM
IQNLIKHLPDQEQNLNSLQFKSEYNLCEPEQFVVMSNVKRLRPRLSAILFKLQFEEQVNNIKPDIMAV
STACEEIKKSKFSKLELLELLMGNYMAGSRNAQTGFNLSSLCKLKDKTSADQKTTLLHFLVEICEEK
YPDILNFVDDLEPLDKASKGLCLFKKHFMAIFSAKRLKIIPFICMYFPLSHSVFIPNISF
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001258370

ORF Size: 2073 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_001258370.2](#)

RefSeq Size: 2300 bp

RefSeq ORF: 2076 bp

Locus ID: 81624

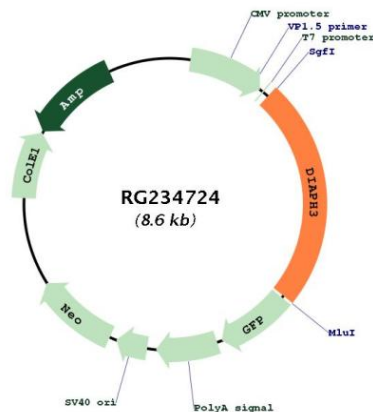
UniProt ID: [Q9NSV4](#)

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 RG234724