

Product datasheet for **RC234724**

DIAPH3 (NM_001258370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIAPH3 (NM_001258370) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DIAPH3
Synonyms:	AN; AUNA1; DIA2; diap3; DRF3; mDia2; NSDAN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC234724 representing NM_001258370
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGAGGAGAGGAGCCTTTCCTTATTGGCCAAAGCCGTGGATCCAGACACCCCAATATGATGACAG
 ATGTGGTTAAACTTCTCTCGCGTATGCATTGTAGGGGAAGAAAGCATCCTTGAAGAAGTTTTAGAAGC
 TTTAACTTCAGCTGGTGAAGAAAAAATTGACAGATTTTTTTGTATTGTGAAGGCTCCGGCACAAT
 TCAGTTCAACTGCAAGTAGCTTGTATGCAGCTCATCAATGCCCTGGTTACATCTCCTGATGATTTGGATT
 TCAGGCTTCACATCAGAAATGAATTTATGCGTTGTGGATTGAAAGAGATATTGCCAAATTTAAAATGCAT
 TAAGAATGATGGCCTGGATATCCAATTAAGTCTTTGATGAGCATAAAGAAGAAGATTTGTTTGGATT
 TCCCATCGCCTGAAGATATTAGAGCTGAACCTTGATGAAGCATATGATGTTTACAACATGGTGTGGAGCA
 CAGTTAAAGAACTAGAGCAGAGGGATTTTTATTTCTATTCTTCAGCATCTTTTGTGATTGCAATGA
 TTATTTTATAAGCAACAATACTTCAAATTAATTGATGAGTGTGTATCCCAGATTGATTGCATAGAGAT
 GGAATGGATCCAGACTTCACATATCGAAAAAGACTAGATTTAGATTTAACCCAGTTTGTAGACATTTGCA
 TAGATCAAGCAAACTAGAAGAGTTTGAAGAGAAAGCATCAGAATTTACAAGAAATTTGAAAAAGATT
 TACCGACCACCAAGAACTCAGGCTGAATTGCAGAAAAAGAGGCAAAGATTAATGAGCTTCAAGCAGAG
 CTAACAAGCTTTAAGTCTCAGTTTGGTGCCTTGCAGCTGATTGTAATATTCCTTTGCCTCCCTCTAAAG
 AAGGTGGAAGTGGCCACTCAGCACTTCTCCTCCGCTCCACTGCCTTCTGGTGGAGGGTGGCCCTCC
 ACCTCCTCCCCACCCTCCTCCTCCAGGAATGCGGATGCCATTGAGTGGTCTGTGCCTCCACCA
 CCTCCCCTGGGATTCTTGGAGGACAAAATCTCCTCCTACCAATCCTGCCATTTGGGTTGAAACCAA
 AGAAAGAATTTAACTGAAATCAGCATGAGAAGATTGAATGGTTAAAGATCAGACCTCATGAAATGAC
 TGAAGAACTGTTTCTGGATAAAGTAAATGAAAATGAAATGAAATGAAAACGTGGATTTGCTTTGAACTTGAG
 AATACATTTTGTGCAACAAAAAGAGAGAAGAGAAGAGGAAGATATTGAAGAGAAGAAATCGATTAAGA
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 ATTCAGAACTTAATAAGCATCTTCTGATCAAGAGCAATTAATTCATTGTCTCAGTTCAGAGTGAAT
 ATAGCAACTTATGTGAACCTGAGCAGTTTGTGGTTGTGATGAGCAATGTGAAGAGACTACGGCCACGGCT
 CAGTGCTATTCTTTAAGCTTCAGTTTGAAGAGCAGGTGAACAACATCAAACCTGACATCATGGCTGTC
 AGTACTGCCTGCGAAGAGATAAAGAAGAGCAAAAGCTTTAGCAAGTTGCTGGAATTTGATTGCTAATGG
 GAAACTACATGAATGCTGGCTCCCGAATGCTCAAACCTTCGGATTTAACCTTAGCTCTCTGTAAACT
 AAAGGACACAAAATCAGCAGATCAGAAAAACAACGCTACTTCATTTCTGGTAGAAATATGTGAAGAGAAG
 TACCCTGATATACTGAATTTTGTGGATGATTTGGAACCTTTAGACAAAGCTAGTAAAGGTTTGTGCCTTT
 TTAAGAAACATTTATGGCTCTGATCTTCAGTGCTAAAAGACTGAAAATATACCTTTTATTTGTATGTA
 CTTTCCACTTCTCACAGTGTTCATACCCAATATCTCATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234724 representing NM_001258370
Red=Cloning site Green=Tags(s)

MSEERSLSLLAKAVDPRHPNMMDVVKLLSAVCIVGEESILEEVLEALTSAGEEKKIDRFFCIVEGLRHN
 SVQLQVACMQLINALVTPDDLDFRLHIRNEFMRCGLKEILPNLKCICKNDGLDIQLKVFDEHKEEDLFEL
 SHRLDIRAELDEAYDVYNNMVWSTVKETRAEGYFISILQHLLLRNDYFIRQQYFKLIDECVSQIVLHRD
 GMDPDFTYRKRLDLDTQFVDICIDQAKLEEFEEKASELYKKFEKEFTDHQETAELQKKEAKINELQAE
 LQAFKSQFGALPADCNIPPLPSKEGGTGHSALEPPPPPLPSGGGVPPPPPPPPPPPLPGMRMPFSGPVPPP
 PPLGFLGGQNSPPLPILPFGLPKKFKPEISMRRLNWLKIRPHEMTENCFWIKVNNENKYENVDLLCKLE
 NTFCCQKERREEEDIEEKKSIIKKIKELKFLDSKIAQNLISFLSSFRVPYEEIRMMILEVDETRLAESM
 IQNLIKHLPDQEQNLNSLQFKSEYNLCEPEQFVVMSNVKRLRPRLSAILFKLQFEEQVNNIKPDIMAV
 STACEEIKKSKFSKLELVLMLGNYMAGSRNAQTGFNLSSLCKLKDTKSADQKTTLLHFLVEICEEK
 YPDILNFVDDLEPLDKASKGLCLFKKHFMALIFSAKRLKIIPFICMYFPLSHSVFIPNISF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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](#)

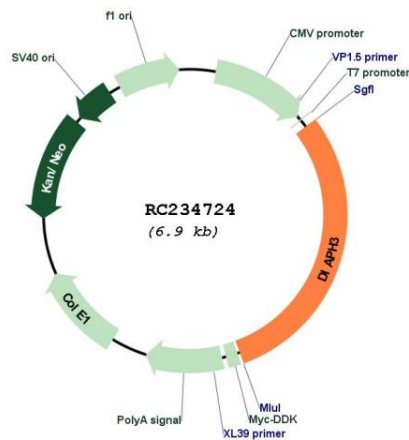
Cytogenetics: 13q21.2

Protein Pathways: Regulation of actin cytoskeleton

MW: 79.9 kDa

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 RC234724