

## Product datasheet for RC235171

### DIAPH3 (NM\_001258369) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DIAPH3 (NM_001258369) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DIAPH3
Synonyms:	AN; AUNA1; DIA2; diap3; DRF3; mDia2; NSDAN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235171 representing NM_001258369 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACGGCACCAGCCGCGGCTGCACCACCCGGCCCAAGGCTCAGCCGCTGGGACTCCCTACCCTTCT  
CAGCCTCTCTCCGCGGCTGCCGGAAAGCAAGATGCCGCGCAGGAAGGGCCCCAACACCCTCCGCCGCC  
CAGTGGCCCCGAGGAGCCTGGGGAGAAGCGCCCAAGTTTCATTTAAATATTAGGACACTGACGGATGAT  
ATGCTGGACAAATTTGCCAGCATAAGAATTCAGGGAGCAAGAAAGAGAGACCTCCACTTCCCAACCTGA  
AGACTGCATTTGCAAGCAGTGATTGCTCAGCAGCACCTTTAGAGATGATGGAGAACCTTCCAAAGCCACT  
GTCAGAGAATGAACTCTTAGAACTTTTTGAAAAATGATGGAAGATATGAATTTAAATGAAGATAAAAAAG  
GCACCATTCGGGAAAAGGACTTCAGTATCAAAAAAGAAATGGTATGCAGTACATTAATACTGCTTCTA  
AGACAGGAAGTCTTAAGAGAAGCCGACAGATCTCACCTCAGGAATTCATTCATGAGCTGAAAAATGGGTC  
TGCAGATGAGAGACTTGTACATGCCTGGAGTCTCTCCGAGTGTCTTTGACCAGCAATCCTGTGAGTTGG  
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TCCAAGAAAAAGTTGTAAGAAAAATCAACATAAAGTCATACAGTGTCTAAAAGCCCTGATGAATACGCA  
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CACCCCAATATGATGACAGATGTGGTTAAACTTCTCTGCGGTATGCATTGTAGGGGAAGAAAGCATCC  
TTGAAGAAGTTTTAGAAGCTTTAACTTCAGCTGGTGAAGAAAAAAAATTGACAGATTTTTTTGATTGT  
GGAAGGCCTCCGGCACAATTCAGTTCAACTGCAAGTAGCTTGTATGCAGCTCATCAATGCCTGTTTACA  
TCTCTGATGATTTGGATTTTCAAGCTTCACATCAGAAATGAATTTATGCGTTGTGGATTGAAAGAGATAT  
TGCCAAATTTAAATGCATTAAGAATGATGGCCTGGATATCCAATTAAGTCTTTGATGAGCATAAAGA  
AGAAGATTTGTTGAGTTATCCCATCGCCTTGAAGATATTAGAGCTGAACCTGATGAAGCATATGATGTT  
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TTTTGCTGATTCGAAATGATTATTTTATAAGGCAACAATACTTCAAATTAATTGATGAGTGTGATCCCA  
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CAGTTTGTAGACATTTGCATAGATCAAGCAAACTAGAAGAGTTTGAAGAGAAAGCATCAGAACCTTACA



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AGAAATTTGAAAAAGAGTTTACCGACCACCAAGAACTCAGGCTGAATTGCAGAAAAAGAGGCAAAGAT  
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 TGTCAGAATAGCTAAAGAATTAGCAGAGCGAGAAGACTCGAACGCCAACAAAAGAAAAGCGTTTTATTA  
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 CCTTCCGCGACAGAAGAAAAGGACACCGATGCCAAAAGATGTTTCGCGAGAGTCTCAGTCCAATGTCTCA  
 GAGGCTGTTCTGAAAGTTGTAAACATGGTAATAAACCGTATTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC235171 representing NM\_001258369  
 Red=Cloning site Green=Tags(s)

MERHQPRLLHHPAQGSAAGTPYPSSASLRGCRSKMPPRRKGPQHPPPPSGPEEPGEKRPKFHLNIRTLTDD  
 MLDKFASIRIPGSKKERPLPNLKTAFASDDCSAAPLEMENFPKPLSENELLELFEKMMEDMNLNEDKK  
 APLREKDFSIKKEMVMQYINTASKTGSLKRSRQISPOEFIHCLKMGSADERLVTCLSLRVSLTSPVSW  
 VESFGHEGLGLLLDILEKLSGKIQEKVVKKNQHKVVIQCLKALMNTQYGLERIMSEERSLSLLAKAVDPR  
 HPNMMTDVVKLLSAVCI VGEESILEEVLEALTSAGEEKKIDRFFCIVEGLRHNSVQLQVACMQLINALVT  
 SPDDLDFRLHIRNEFMRCGLKEILPNLKCICKNDGLDIQLKVFDEHKEEDLFELSHREDIRAELDEAYDV  
 YNMVWSTVKETRAEGYFISILQHLLLIRNDYFIRQQYFKLIDECVSQIVLHRDGMDFTYRKRDLDLT  
 QFVDICIDQAKLEEFEEKASELYKFEKEFTDHQETAELQKKEAKINELQAEQAFKSQFGALPADCNI  
 PLPPSKEGGTGHSA LPPPPPLPSGGGVPPPPPPPPPPPLPGMRMPFSGPVPPPPPLGFLGGQNSPPLPIL  
 PFGLKPKKEFKPEISMRRNLWLKIRPHEMTEFCWIKVNNENKYENVDLLCKLENTFCCQQKERREEDIE  
 EKKSIIKKIKELKFLDSKIAQNL SIFLSSFRVPYEEIRMMILEVDETRLAESMIQNL IKHLPDQEQLNSL  
 SQFKSEYNSLCEPEQFVVVMSNVKRLRPRLSAILFKLQFEEQVNNIKPDIMAVSTACEEIKKSKSF SKLL  
 ELVLLMGNYMNAGSRNAQTFGFNLSSLCKLKDTSADQKTTLLHFLVEICEEKYPDILNFVDDLEPLDKA  
 SKVSVTELEKNLRQMGRQLQQLEKELETFPPEDLHDKFVTKMSRFVISAKEYETLSKLHENMEKLYQS  
 IIGYYAIDVKKVSVEFDLTDLNNFRTTFMQAIKENIKKREAEKEKRVRIAKELAERERLERQQKKRLL  
 EMKTEGDETGVMNDLLEALQSGAAFRDRRKRTPMPKDVRQSLSPMSQRPVVKVCNHNKPYL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001258369.1, NP_001245298.1</u>
<b>RefSeq Size:</b>	3564 bp
<b>RefSeq ORF:</b>	3339 bp
<b>Locus ID:</b>	81624
<b>UniProt ID:</b>	<u>Q9NSV4</u>
<b>Cytogenetics:</b>	13q21.2
<b>Protein Pathways:</b>	Regulation of actin cytoskeleton
<b>MW:</b>	128.3 kDa
<b>Gene Summary:</b>	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]