

Product datasheet for RC221432

DIAPH3 (NM_001042517) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIAPH3 (NM_001042517) 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)
ORF Nucleotide Sequence:	>RC221432 representing NM_001042517 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC221432 representing NM_001042517
 Red=Cloning site Green=Tags(s)

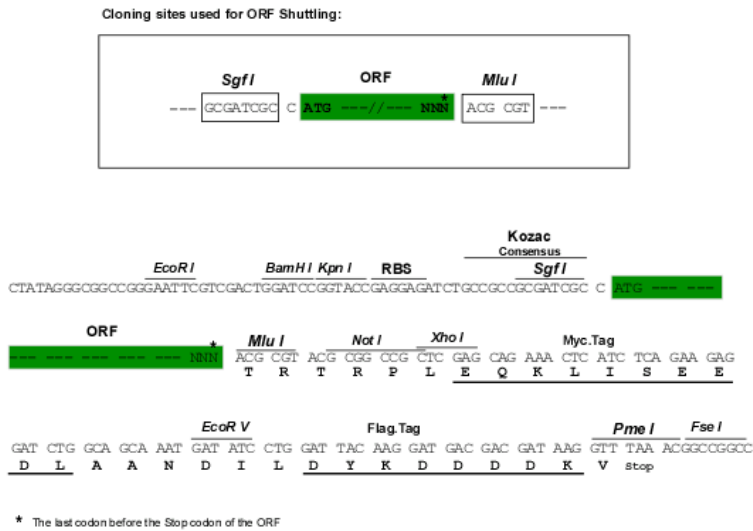
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RAL
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Chromatograms: https://cdn.origene.com/chromatograms/mg4021_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

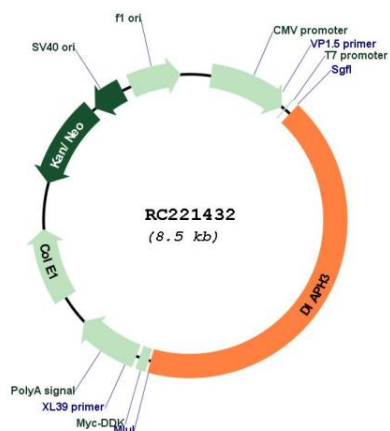


ACCN: NM_001042517

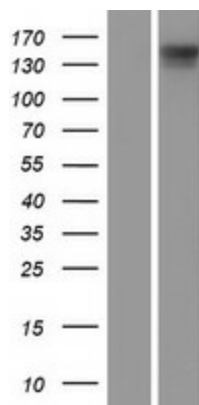
ORF Size: 3579 bp

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:	<ol style="list-style-type: none"> 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_001042517.1 , NP_001035982.1
RefSeq Size:	4812 bp
RefSeq ORF:	3582 bp
Locus ID:	81624
UniProt ID:	Q9NSV4
Cytogenetics:	13q21.2
Protein Pathways:	Regulation of actin cytoskeleton
MW:	136.7 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 RC221432



Western blot validation of overexpression lysate (Cat# [LY420955]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221432 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).