

Product datasheet for RC224466

DIAPH2 (NM_007309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIAPH2 (NM_007309) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DIAPH2
Synonyms:	DIA; DIA2; DRF2; POF; POF2; POF2A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC224466 representing NM_007309 Red=Cloning site Blue=ORF Green=Tags(s)

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GCCGCGATCGCC

ATGGAGCAGCCCGGGCGGGCGTCTGGGAGCGGGAGGCGGCAGCGAGGAACCCGGTGGGGCCGGAGCA
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CTCAAGCAGAGCTTCAAAAAGAGATGAGAAAATCAAAGAACTTGAAGCAGAAATCCAGCAACTTCGAAC
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Protein Sequence:

>RC224466 representing NM_007309
 Red=Cloning site Green=Tags(s)

MEQPGAAASGAGGGSEEPGGGRSNKRSAGNRAANEEETKNKPKLNIQIKTLADDVRDRITSFRKSTVKKE
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 AICIVGEENILDKLLGAIITTAERNRERFSPIVEGLENQEALQLQVACMQFINALVTSPEYELDFRIHLR
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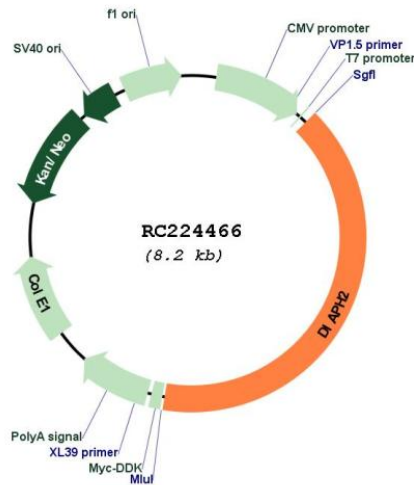
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_007309

ORF Size: 3288 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:	<u>NM_007309.3, NP_009293.1</u>
RefSeq Size:	3782 bp
RefSeq ORF:	3291 bp
Locus ID:	1730
UniProt ID:	<u>O60879</u>
Cytogenetics:	Xq21.33
Domains:	FH2
Protein Families:	Druggable Genome
Protein Pathways:	Regulation of actin cytoskeleton
MW:	124.8 kDa
Gene Summary:	The product of this gene belongs to the diaphanous subfamily of the formin homology family of proteins. This gene may play a role in the development and normal function of the ovaries. Defects in this gene have been linked to premature ovarian failure 2. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]