

Product datasheet for **RG216318**

DIAPH1 (NM_005219) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIAPH1 (NM_005219) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DIAPH1
Synonyms:	DFNA1; DIA1; DRF1; hDIA1; LFHL1; SCBMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216318 representing NM_005219 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RG216318 representing NM_005219
 Red=Cloning site Green=Tags(s)

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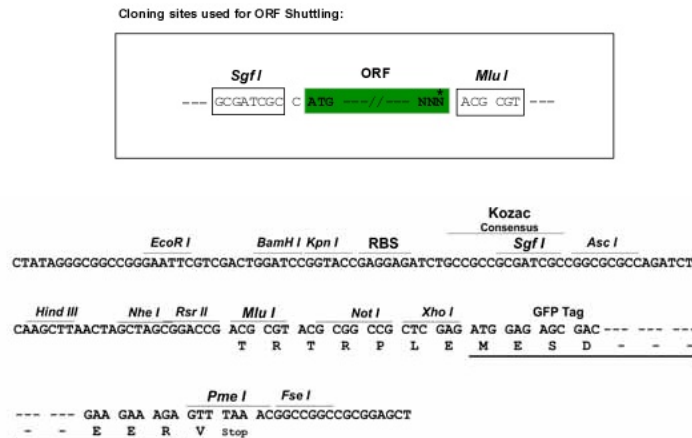
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TRTRPLE - GFP Tag - V

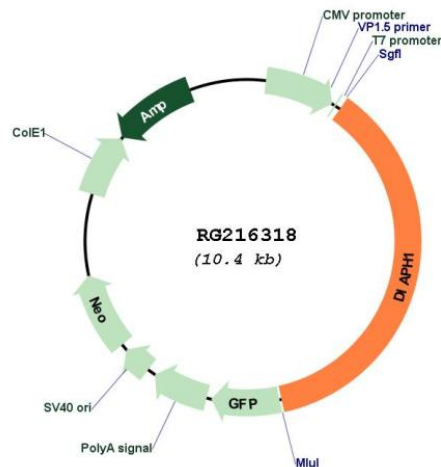
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_005219

ORF Size: 3816 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_005219.5](#)

RefSeq Size: 5745 bp

RefSeq ORF: 3819 bp

Locus ID: 1729

UniProt ID: [O60610](#)

Cytogenetics: 5q31.3

Domains:	FH2
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Focal adhesion, Regulation of actin cytoskeleton
Gene Summary:	<p>This gene is a homolog of the <i>Drosophila</i> diaphanous gene, and has been linked to autosomal dominant, fully penetrant, nonsyndromic sensorineural progressive low-frequency hearing loss. Actin polymerization involves proteins known to interact with diaphanous protein in <i>Drosophila</i> and mouse. It has therefore been speculated that this gene may have a role in the regulation of actin polymerization in hair cells of the inner ear. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p>