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Product datasheet for RG226374

DOCK9 (NM_001130049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DOCK9 (NM_001130049) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DOCK9
Synonyms:	ZIZ1; ZIZIMIN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG226374 representing NM_001130049
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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ATGTCGCAGCCGCCGCTGCTCCCCGCCTCGGCGGAGACTCGGAAGTTCACCCGGGCGCTGAGTAAGCCGG
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GCTGAGCCATATATGAAAAGTTCAGACTCTTCTAAGGTGGCCCAGAAGGTGCTGAAGAATGCCAAGCAGG
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AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226374 representing NM_001130049
Red=Cloning site Green=Tags(s)

MSQPPLLPASAETRKFTRALSKPGTAAELRQSVSEVVRGSVLLAKPKLIEPLDYENVIVQKKTQILNDCL
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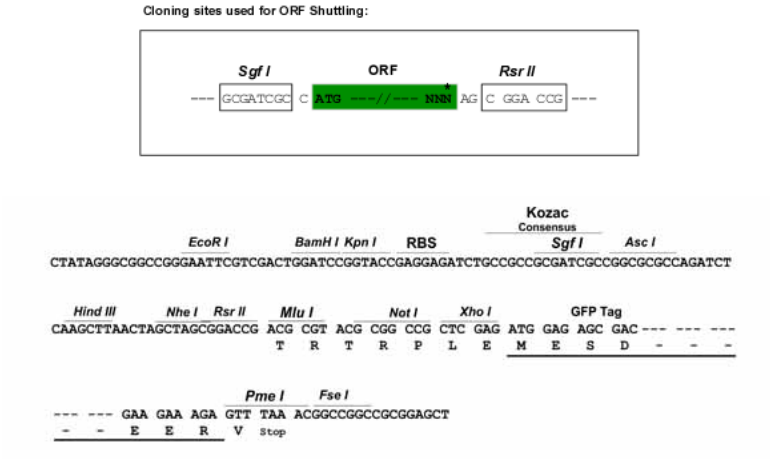
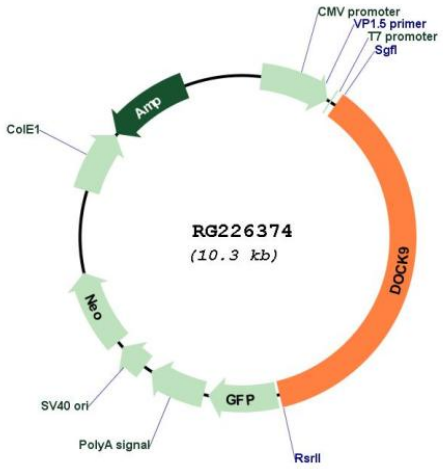
SGPTRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001130049
ORF Size:	3762 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_001130049.2
RefSeq Size:	3994 bp
RefSeq ORF:	3765 bp
Locus ID:	23348
UniProt ID:	Q9BZ29

Cytogenetics:	13q32.3
Gene Summary:	Guanine nucleotide-exchange factor (GEF) that activates CDC42 by exchanging bound GDP for free GTP. Overexpression induces filopodia formation.[UniProtKB/Swiss-Prot Function]