

## Product datasheet for **RG240219**

### DOCK1 (NM\_001290223) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | DOCK1 (NM_001290223) Human Tagged ORF Clone                                    |
| Tag:                      | TurboGFP   |
| Symbol:                   | DOCK1  |
| Synonyms:                 | ced5; DOCK180  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >RG240219 representing NM_001290223.<br>Blue=ORF Red=Cloning site Green=Tag(s) |

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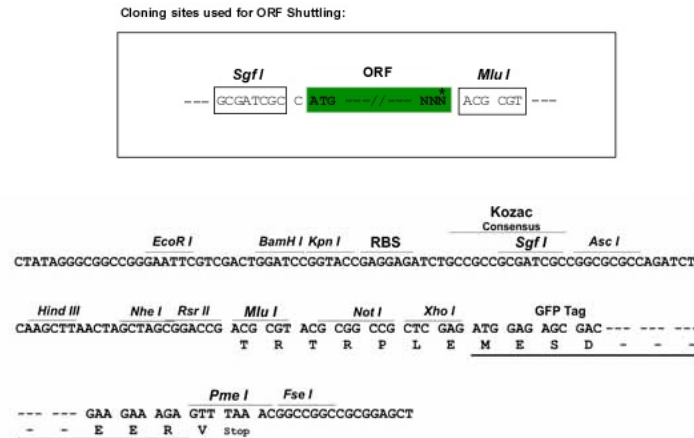
**Protein Sequence:**

>Peptide sequence encoded by RG240219  
 Blue=ORF Red=Cloning site Green=Tag(s)

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**Restriction Sites:**

Sgfl-Mlul

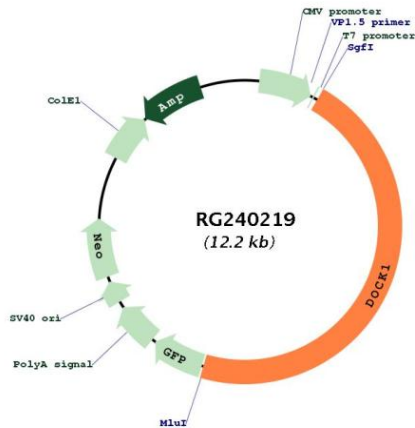
**Cloning Scheme:**


- ACCN:** NM\_001290223
- ORF Size:** 5658 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).
- RefSeq:** [NM\\_001290223.1](#), [NP\\_001277152.1](#)
- RefSeq Size:** 6876 bp
- RefSeq ORF:** 5661 bp
- Locus ID:** 1793
- Cytogenetics:** 10q26.2
- Protein Families:** Druggable Genome
- Protein Pathways:** Focal adhesion, Regulation of actin cytoskeleton

MW: 218.2 kDa

**Gene Summary:** This gene encodes a member of the dedicator of cytokinesis protein family. Dedicator of cytokinesis proteins act as guanine nucleotide exchange factors for small Rho family G proteins. The encoded protein regulates the small GTPase Rac, thereby influencing several biological processes, including phagocytosis and cell migration. Overexpression of this gene has also been associated with certain cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]

### Product images:



Circular map for RG240219