

## Product datasheet for MR231927

### Dock10 (NM\_001285927) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dock10 (NM_001285927) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dock10
Synonyms:	9330153B10Rik; A630054M16Rik; Jr4; Jr5; mKIAA0694; R75174; ZIZ3; Zizimin3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR231927 representing NM_001285927 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >MR231927 representing NM\_001285927  
 Red=Cloning site Green=Tags(s)

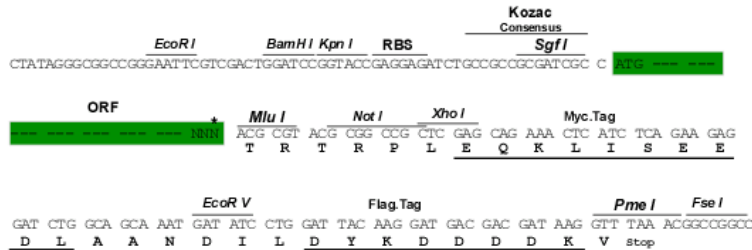
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 SSAEV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001285927

**ORF Size:** 6525 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\\_001285927.1](#), [NP\\_001272856.1](#)
**RefSeq Size:** 7324 bp

**RefSeq ORF:** 6528 bp

**Locus ID:** 210293

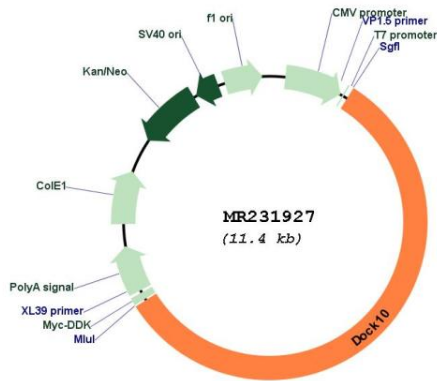
**UniProt ID:** [Q8BZN6](#)

**Cytogenetics:** 1 C5

**MW:** 249 kDa

**Gene Summary:** Guanine nucleotide-exchange factor (GEF) that activates CDC42 and RAC1 by exchanging bound GDP for free GTP. Essential for dendritic spine morphogenesis in Purkinje cells and in hippocampal neurons, via a CDC42-mediated pathway (PubMed:25851601). Sustains B-cell lymphopoiesis in secondary lymphoid tissues and regulates FCER2/CD23 expression (PubMed:27502165).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR231927