

Product datasheet for **MC224993**

Dock1 (NM_001033420) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dock1 (NM_001033420) Mouse Untagged Clone
Tag: Tag Free
Symbol: Dock1
Synonyms: 9130006G06Rik; AI854900; D630004B07Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224993 representing NM_001033420
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGACGCGCTGGGTCCCCACCAAGCGAGAGGAGAAGTACGGCGTGGCCTTTTACAACACGATGCCAGGG
GAGCAGATGAACTGTCCCTTCAAATTGGAGACACCGTGCACATCCTAGAACTTATGAAGGGTGGTACAG
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GCCATAGATCCTCGCAGGACTCCAAGGATAAATCTGAAAAGATCTTCGCACTGGCCTTTGTGAAGCTGAT
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GATCCTTTCTGAAACGATAAGTCCCCTGCGGCCCAAGACCCAAGAGCCAGGTGATCAATGTCATTGGA
 AATGAAAGGCGCTTCTCTGTGTCTCCAGCATCACCGTCCCTCCCAGCAGACGCCCCCTCCAGTCACACCAA
 GAGCCAAGCTCAGCTTACAGATTAGCCAGTCTGGAGCTGAACGGCATGATGGGAATGGATGTGGCCGA
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 CACCACCTCCTCCCCCTCGAAGACGACCCGAAAGCAGACCTCAGTGGACTCTGGAATCGTGCAGTGA

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 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001033420
- Insert Size:** 5598 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001033420.2](#), [NP_001028592.1](#)
- RefSeq Size:** 6815 bp
- RefSeq ORF:** 5598 bp
- Locus ID:** 330662
- UniProt ID:** [Q8BUR4](#)
- Cytogenetics:** 7 F3
- Gene Summary:** Involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility. Along with DOCK1, mediates CRK/CRKL regulation of epithelial and endothelial cell spreading and migration on type IV collagen. Functions as a guanine nucleotide exchange factor (GEF), which activates Rac Rho small GTPases by exchanging bound GDP for free GTP. Its GEF activity may be enhanced by ELMO1.[UniProtKB/Swiss-Prot Function]