

Product datasheet for **MC223138**

Dock6 (BC057368) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Dock6 (BC057368) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Dock6
 Synonyms: 2410095B20Rik; 4931431C02Rik; C330023D02Rik; mKIAA1395
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >BC057368
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCATGTAGCCAGCCTTGTGCACCGAACCTGGAGGCTGTCCAAGACTCCCGTGGCCACTGCCAC
 TGCTGGCCTCCTATGTCCACTACGCCTTTCGCCTCCCTGGTGGTACCTCAGCCTGCCAGGCGAAGCCCC
 TCCAGCAACTGTGCAGGCTGCCCACTGGCCCGTGGCTCTGGTCGCCCGCCAGCCTGTACTGGCAGCG
 TCTAAGAGCATCAGCAGCAGCAACCCTGACCTGGCTGTGGTCCCTGGCTCTGTGGACGATGAGGTGTCC
 GCATCCTAGCCAGCAAGGGTGTGATCGCTCAGCTCCTGGGTGAATTCTGCTTATGCTCCGGGAGGCGAG
 CAAGGCTGTGCTGCGGGGGTGCACCCATACTGTGGGGCTGATCCAGACAGCTGCTGCACGAGGAGCTG
 GCTCTGCAGTGGGTGGTGGAGCGGAGTGCAGGTTCTGTGAGCTAGTCTGCAGCATGCCTGGTTCTTCTTCC
 AGCTCATGGTAAAAAGCATGGAGCTCCATCTGCTTCTGGGCCAGCGACTGGACACTCCCCGCAAGCTGCG
 CTTCCCTGGGCGCTTCTGGATGACATTGCCGCCCTGGTGGCTTCCGTGGGCCTGGAAGTCATCACCAGA
 GTCCATAAGGACATGAAGCTAGCTGAACGCCTCAACGCTAGCCTGGCTTCTTCTCAGTGACCTCCTGT
 CCATAGCGGACCGAGGCTACATTTTCAGCCTGGTACGCGCTCACTACAAGCAGGTGGCCACTCGGCTCCA
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 CACTATGTGACCCCTAACCTCCCTGTTGCCCCCTGTCGCCCCAGCATCCCCGTCCCCCTCGGTGTCT
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 GCTTCCATGCTGGACTCAGACACAGAAGGTGAAGGGGACATCGGAAGCACCATCAACCCATCTGTGCCA
 TGCCATCGCTGGGGTCCCTGGCTCCTGGCTCTCGCACCAGCATTTCCAGGGACCTTCAACAGCAGC
 TCGCTCAGGCTGTCTCTCTGTGAATCCAGCCGACCTTGCTGGTGTGTCTGTGGTCTGCTGCTGCTGCTG
 AATGCAGAGCCAACGCTCCTGCAGCGCTGGGCTGCTGACCTGGCCCTGCCCCAGCTGGGGCGACTCCTCG



ACCTACTCTACCTCTGTCTGGCTGCCTTCGAGTACAAGGGGAAGAAAGCCTTTGAGCGGATCAACAGCCT
CACGTTCAAGAAGTCTCTGGACATGAAAGCGCGCTGGAGGAAGCCATCCTGGGCACCATTGGGGCGCGG
CAGGAGATGGTGCGGCGGAGTCGGGAGAGAAGTCCATTTGGAAACCAAGAGAATGTTTCGCTGGCGGAAGA
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GTGATGCTGTCCGAGGCCGTGAGAGCATCCTGAGTGCCGTGCTGAAAGTTGCTCTACAGTCTTGGGA
GCGCCACAGATGCCCTGTTCTGCAGCATGGCCTGGCCACCCAGCGGGCCCTGGTCTCCAAGTTTCCGGA
GCTGCTTTTCGAGGAAGACACGGAGCTTTGTGCCGACCTGTGCCTGAGACTTCTGCGACACTGTGGCAGC
CGCATCAGCACCATCCGCATGCACGCCAGCGCCTCCCTCTACCTGCTTATGCGCCAGAAGTTTCGAGATTG
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ACAGTCGCCACCTGCCTGTGGGCTGTGTCTCCAGAATGTCTCATCCAACTGCTGGAGGAGTCTGC
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TCTACAAAACCTTATCCCCATCCTTGAAGCCACAGAGACTACAAGAAGCTGGCTGCGGTGCACGGGAA
ACTGCAGGAGGCCTTACCAAGATTATGCACCAGAGCTCTGGCTGGGAGCGTGTATTTGGGACATATTTT
CGAGTGGGCTTCTATGGCACACGATTTGGTGACCTGGATGAACAAGAGTTTGTGTACAAGGAACCGTCAA
TCACGAAGCTTGCAGAGATCTCACACCGGCTGGAGGAGTTCTATACGAAAGGTTTCGGGGATGATGTGGT
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ACCTATGTGGAGCCACATTTTCGACACTTATGAGCTCAAGGATCGGGTGACCTACTTCGATCGAACTATG
GGCTGCGGGCTTCTCTTCTGCACACCCTTACACACAGATGGACGTGCCACGGAGAGTTGGCCGAACA
GCACAAACGCAAGACGCTGCTGAGCACGGAGCATGCCTTTCCCTACATCAAGACACGCATCCGAGTGTGC
CACCGTGAGGAGACAGTGTGACACCAGTGGAGGTGGCCATTGAGGACATGCAGAAGAAGACCCGGGAGC
TGGCCTTTGCCACCGAGCAGGACCTCCAGATGCCAAGATGCTGCAGATGGTCTCCAGGGTCTGTGGG
ACCCACTGTGAACCAGGGTCCCTTGAAGTGGCCAGGTGTTTTTGTGAGAGATCCAGAAGATCCCAAG
CTCTCCGACATCACAACAACTCCGGCTCTGCTTCAAGGATTTCTGCAAAAAGTGCAGGATGCACTGA
GAAAGAACAAGGCCCTGATTGGCCAGACCAGAAGGAGTACCACCGGAGCTGGAGCGTCACTATAGCCG
CCTGCGGGAGGCTCTGCAGCCTCTGCTTACCCAAGCTCTGCCACAGCTGTGGCACCAGTTCACACAGC
CTCAGGAGCTCCATGAACAGATCAAGTTTCAGGAAGGCTGACCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** BC057368
- Insert Size:** 1626 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: [BC057368](#), [AAH57368](#)

RefSeq Size: 4208 bp

RefSeq ORF: 3827 bp

Locus ID: 319899

Cytogenetics: 9 A3

Gene Summary: Acts as guanine nucleotide exchange factor (GEF) for CDC42 and RAC1 small GTPases (By similarity). Through its activation of CDC42 and RAC1, regulates neurite outgrowth in an vitro differentiation system.[UniProtKB/Swiss-Prot Function]