

Product datasheet for **MR211883**

Dock6 (BC057368) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dock6 (BC057368) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dock6
Synonyms:	2410095B20Rik; 4931431C02Rik; C330023D02Rik; mKIAA1395
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211883 representing BC057368 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCATGTAGCCAGCCTTGTGCACCGAACCTGGAGGCTGTCCAAGACTCCCGTGGCCACTGCCCCAC
TGCTGGCCTCCTATGTCCACTACGCCTTTCGCCTCCCTGGTGGTGACCTCAGCCTGCCAGGCGAAGCCCC
TCCAGCAACTGTGCAGGCTGCCACACTGGCCCGTGGCTCTGGTCGCCCCGCCAGCCTGTACCTGGCAGCG
TCTAAGAGCATCAGCAGCAGCAACCCTGACCTGGCTGTGGTCCCTGGCTCTGTGGACGATGAGGTGTCCC
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CAAGGCTGTGCTGCGGCGGGTGCCCCATACTGTGGGGCTGATCCAGACAGCTGCTGCACGAGGAGCTG
GCTCTGCAGTGGGTGGTGAAGCGGAGTGCAGGTTCTGTGAGCTAGTCTGCAGCATGCTGGTCTTCTTCC
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CTTCCCTGGGCGCTTCTGGATGACATTGCCGCCCTGGTGGCTTCCGTGGGCCTGGAAGTCATCACCAGA
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AATGCAGAGCCAACGCTCCTGCAGCGCTGGGCTGCTGACCTGGCCCTGCCCCAGCTGGGGCGACTCCTCG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR211883 representing BC057368
 Red=Cloning site Green=Tags(s)

MAHVASLVHRNLEAVQDSRGHCPLLASVHYAFRLPGGDLSPGEAPPATVQAATLARGSGRPASLYLAR
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 ALQWVVS GSAVRELVLQHAWFFQLMVKSMELHLLLGQRLDTPRKLRFPGRLDDIAALVASVGLVITR
 VHKDMKLAERLNASLAFFLSDLLSIADRGYIFSLVRAHYKQVATRLQSAPNPTALLTLRMDFTILCSHE
 HYVTLNLPCCPLSPPASPSVSTTSQSSTFSSQAPDPKVTSMFELSGPFRQQHFLSGLLLTELALALD
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 NAEPTLLQRWAADLALPQLGRLLDLLYLCLAAFEYKGGKAFFERINSLTFKKSMDMKARLEEAILEGTIGAR
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 VMLSEARESILSAVLKVVLYSLGSAQSALFLQHGLATQRALVSKFPELLFEEDTELCADLCLRLRHCGS
 RISTIRMHASASLYLLMRQNFEIGHNFARVKMLVTMSLSSLVGTQNFSEEHLRKS LKTIITYAEEDIGL
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 HAEAAQCMVHAAALVAEYLALLEDSRHLPVGCVSFQNVSSNVLEESAISDDILSPDEEGFCSGKNFTELG
 LVGLLEQAAGYFTMGGLYEAVNEVYKNLIPILEAHRDYKCLA AVHGKLQEAF TKIMHQSSGWERVFGTYF
 RVGYFGRFGDLDEQEFVYKEPSITKLAEISHRLEEFYTERFGDDVVEI IKDSNPVDKSKLD PQKAYIQI
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 HREETVLTPEVAIEDMQKKTRELAFATEQDPPDAKMLQMLVQGSVGPTVNQGPLEVAQVFLSEIPEDPK
 LFRHNNKLRLCFKDFCKKCEDALRKNKALIGPDQKEYHRELERHYSRLREALQPLL TQRLPQLLAPSSTS
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Restriction Sites:

SgfI-MluI

Cloning Scheme:

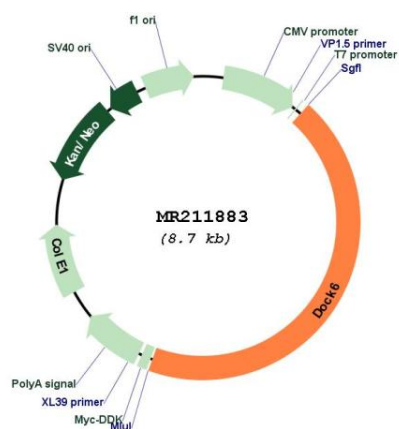


ACCN: BC057368

ORF Size: 3825 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC057368 , AAH57368
RefSeq Size:	4208 bp
RefSeq ORF:	3827 bp
Locus ID:	319899
Cytogenetics:	9 A3
MW:	154.2 kDa
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]

Product images:



Circular map for MR211883