

## Product datasheet for MR223405

### Dock2 (NM\_033374) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dock2 (NM_033374) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dock2
Synonyms:	AI662014; AW122239; CED-5; Hch; MBC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223405 representing NM_033374 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCCTGGCGCAAACCTGACAAGGAGCGTCACGGAGTGGCTATCTACAACCTCCAAGGCAGTGAAG  
CCCAGCATCTCACGCTACAGATTGGCGATGTGGTACGAATACAGGAGACCTGTGGAGACTGGTACAGAGG  
GTACCTCATAAAGCATAAACTGTCACAGGGCATTTCCTACATCCTTTATCCATCTCAAGGAAGTACA  
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GAAACAGTCAAGGTGGCTGTCCTATTGAAGATATGCAGAGGATCCATTTGAGGTTTCATGTTTCGACACC  
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 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223405 representing NM\_033374  
 Red=Cloning site Green=Tags(s)

MAPWRKTDKERHGVAIYNFQGSEAQHLTLQIGDVVRIQETCGDWYRGLIKHKLSQGIFFPSTFIHLKEVT  
 VEKRRNIENIIPAEIPLAQEVTTTLWEWGSIWKQLYVASKKERFLQVQSMYDLMEWRSQLLSGTLPKDE  
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 TDLGNKDLNRDKIFLICQIVRIGKMDLKDINAKKCTQGLRRPFGVAVMDITDIKGAESDEEKQHFIPF  
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 GFAKYEKAFFTEEYSREHPEDQKLSHLKDLIAWQIPFLGAGIKIHEKRVSNDLRPFHDMEECFKNLKM  
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 PISPGSTLPEVKLRRSRRKTRKSSVVFADKAATESDLKRLSRKQEFMSDTNLSEHAAIPARVSILSQMS  
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 PDFLSTNM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9040\\_g12.zip](https://cdn.origene.com/chromatograms/mm9040_g12.zip)

**Restriction Sites:**

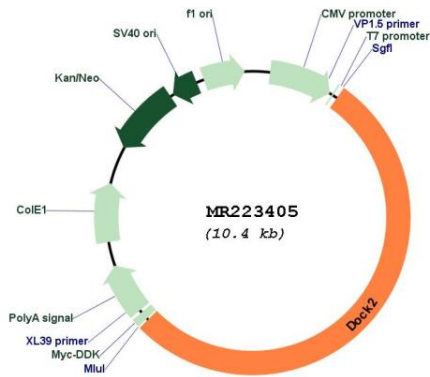
SgfI-MluI



**RefSeq:** [NM\\_033374.3, NP\\_203538.2](#)  
**RefSeq Size:** 6291 bp  
**RefSeq ORF:** 5487 bp  
**Locus ID:** 94176  
**UniProt ID:** [Q8C3J5](#)  
**Cytogenetics:** 11 A4  
**MW:** 212.2 kDa

**Gene Summary:** Involved in cytoskeletal rearrangements required for lymphocyte migration in response of chemokines. Activates RAC1 and RAC2, but not CDC42, by functioning as a guanine nucleotide exchange factor (GEF), which exchanges bound GDP for free GTP. May also participate in IL2 transcriptional activation via the activation of RAC2.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR223405