

## Product datasheet for MR222195

### Rapgef4 (NM\_019688) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rapgef4 (NM_019688) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rapgef4
Synonyms:	1300003D15Rik; 5730402K07Rik; 6330581N18Rik; Epac-2; EPAC 2; Epac2; mKIAA4040
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222195 representing NM_019688 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGGATCGCC

ATGGTCGCTGCGCAGCTGCACACTCTCAGTCCTCGGCCGAGTGGATCGCCTGCCTGGATAAAAGGCCGT  
TGGAGCGATCTAGTGAAGATGTGGACATAATTTTCACGCGGTGAAAGGAGTTAAAGCTTTTGAGAAATT  
TCACCCAAACCTCCTTCGTCAGATTTGTTATGCGGTTACTATGAGAACCTGGAAAAGGAATCACACTG  
TTTCGCCAAGGGGATATTGGAACCAACTGGTATGCTGTCCTGGTGGGTCTTTGGATGTTAAAGTGTCTG  
AGACCAGCAGTCACCAGGATGCGGTGACCATCTGCACTCTGGGAATTGGGACAGCCTTTGGAGATCCAT  
TCTGGATAACACCCTCGCCATGCAACCATCGTTACCAGGGAGAGCAGCGAACTTCTCCGATTGAGCAG  
GAGGACTTCAAGGCACTATGGGAGAAATACCGACAGTATATGGCCGGACTTCTGGCTCCTCCCTATGGTG  
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CTAAAGACATACAGCAATGCTGTGTTGGGACTGAGCTGGTAGACTGGATGATACAGCAGACATCCTGTG  
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TTGCCACTGAGGAAGAGAAGAAGGAGTGTGATGAAGAAGTTCAGGACACCATGCTGCTCTCACAGA  
TGGGCCCTGACGCCACATGAGAATGATCCTGCGAAAACCACTGGCCAGAGGACTGTGGATGACCTAGA  
GATTATCTACGACGAGCTCCTTCATATTAAGCCTTATCCCATCTCTCTACCACAGTGAAACGGGAGTTA  
GCAGGTGTTCTCATTTTTGAGTCTCACGCCAAAGGAGGAACTGTGTTGTTAACCAGGGGGAAGAAGGTA  
CCTCCTGGTACATCATTCTGAAAGGATCCGTGAATGTAGTCATTTATGGCAAGGGTGTGGTCTGCACCT  
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TTAGAGCATTTTCTAGAAACAATACGCCTTGAGCCATCGTTGAATGAAGCAACAGATTCCGTTTTAAATG  
 ACTTTGTATGATGCACTGTGTTTTATGCCAAATACCCAGCTTTGCCCTGCCCTTGTGGCCATTACCA  
 CGCACAGCCTTCTCAAGGTACCGAGCAGGAGAGAATGGATTATGCCCTCAACAACAAGAGGGGTCATC  
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 AGCTAATAAGAACCATCAGGATGTCCGGAGTTATGTACGGCAATTAATGTGATTGACAACCAGAGAACT  
 TTATCACAGATGTCACACAGATTAGAGCCTCGAAGGCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGTTTAA

**Protein Sequence:**

>MR222195 representing NM\_019688  
 Red=Cloning site Green=Tags(s)

MVAHAHAHSQSSAEWIACLDKRPLERSSEVDVDFTRKLGKVKAFKHPNLLRQICLCGYENLEKGITL  
 FRQGDIGTNWYAVLAGSLDVKVSSETSSHQDAVTICTLGITAFGESILDNTPRHATIVTRESSELLRIEQ  
 EDFKALWEKYRQYMAGLLAPPYGVMETGSNNDRIPDKENVPSEKILRAGKILRIAILSRAPHMIRDRKYH  
 LKTYRQCCVGTTELVDWMIQQTSCVHSRTQAVGMWQVLLLEDGVLNHVDQERHFQDKYLFYRFLDDEREDAP  
 LPTEEEKKECDEELQDTMLLLSQMPDAHMRMILRKPPGQRTVDDLEIIYDELLHIKALSHLSTTVKREL  
 AGVLIFESHAKGGTVLFNQGEETSWYIILKGSVNVVIYKGVVCTLHEGDDFGKLALVNDAPRAASIVL  
 REDNCHFLRVDKEDFNRLRDVEANTVRLKEHDQDVLVLEKVPAGNRAANQNSQPQQKYTVMSGTPEKI  
 LEHFLETIRLEPSLNEATDVLNDFVMMHCVFMPNTQLCPALVAHYHAQPSQGEQERMDYALNNKRRVI  
 RLVLQWAAMYGDLLQEDDVAMAFLEEFYVSVSDDARMMAAFKEQLPELEKIVKQISEDAPQKKHKVLL  
 QQFNTGDERAQRQPIRGSDVLFKVVYCIDHTYTTIRVPVAASVKEVISAVADKLGSGEGLIIVKMNSGG  
 EKVVLSKNDVSVFTTLTINGRLFACPREQFDSLTPLEQEGPTTGTGVTGTFELMSSKDLAYQMTTYDWELF  
 NCVHELELIYHTFGRHNFKKTANLDFLRRFNEIQFWVTEVCLCSQLSKRVQLLKKFKIAAHCKEYK  
 NLNSFFAIVMGLSNVAVSRLALTWEKLPKFKFYAEFESLMDPSRNHRAYRLTAAKLEPLIPFMPLLI  
 KDMFTTHEGNKTFIDNLVNFEMRMIANARTVRYRYSQPFNPDAQAANKNHQDVRYSYVRQLNVIDNQRT  
 LSQMSHRLERPRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1412\\_b09.zip](https://cdn.origene.com/chromatograms/ja1412_b09.zip)

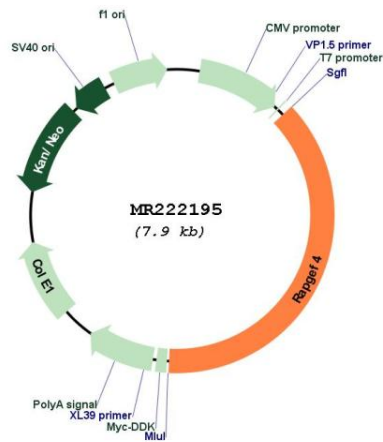
**Restriction Sites:**

Sgfl-MluI



**Locus ID:** 56508  
**UniProt ID:** [Q9EQZ6](#)  
**Cytogenetics:** 2 C3  
**MW:** 113.9 kDa  
**Gene Summary:** Guanine nucleotide exchange factor (GEF) for RAP1A, RAP1B and RAP2A small GTPases that is activated by binding cAMP. Seems not to activate RAB3A. Involved in cAMP-dependent, PKA-independent exocytosis through interaction with RIMS2.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222195