

Product datasheet for **MC206515**

Rapgef3 (BC020532) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rapgef3 (BC020532) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rapgef3
Synonyms:	Epac, MGC19192, Epac1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for BC020532, the custom clone sequence may differ by one or more nucleotides

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ATGGTGTTGAAGAGAATGCACCGTCCCCGCTGCTGCTCTTACCAGCTAGTGTTCGAGCACCGCGCCCA
GCTGCATCCAGGACTCCGCTGGACACCACTTACCAACAGCGAGGACTCCCTGGATTTAGAGTGAGTCT
GGAGCAGGCCACCACAGAGCATGTGCACAAGGCAGGGAAGCTCCTGCACCGCCATCTCTTGCCACGTAC
CCTACCCTCATCCGAGACAGAAAATACCATCTGCGACTATATCGGCATTGCTGCTGGCCGGGAGCTAG
TGGATGGGATCTTGGCTCTGGGGCTTGGGGTCCACTCACGGAGCCAAGCCGTGGGCATCTGCCAAGTGT
GCTGGATGAGGGTGCCCTTTGTGATGTA AAAACATGACTGGACCTTCCAGGACCGAGATGCCAAATTCTAC
AGGTTCCCTGGACCGGAGCCGAGCCTACAGGAACTCAAGATGTGGAAGAGGAGCTTGTGAGGCTATGG
CCCTCCTGTCCCAGCGAGGGCCTGATGCCCTACTACCGTGGCGCTCCGGAAGCCCCAGGTGAGCGTAC
GGATGAAGAACTGGACCTGATCTTTGAAGAGCTGCTGCATATCAAGGCGGTGGCACACCTTTCTAACTCG
GTGAAGCGGGAAGTAGTCTGTTCTGCTCTTTGAACCACACAGCAAGGCAGGAACTGTGTTGTTACGCC
AGGGGGACAAGGGTACCTCGTGGTACATTATCTGGAAGGGATCTGTCAATGTGGTGACCCATGGCAAGGG
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GCCACCATCATCCTTCGAGAAAATAACTGTCACCTTTCTGCGTGTGGACAAGCAGGACTTCAACCGCATCA
TCAAGGATGTGGAAGCAAAAACCATGAGACTGGAAGAACACGGCAAAGTGGTCTTAGTCTGGAGAGAAC
CTCTCAGGGTGTGGCCCTTCCCGTCCCCGACCCAGGCAGGAACCGGTATACGGTCTGTCTGGCACC
CCAGAGAAAATCCTAGAAGTCTGTTGGAGGCTATGAGACCGGATTCCAGTGCTCATGACCAACAGAGA
CGTTCCCTCAGTGACTTCTGCTGACCCACAGTGTCTTATGCCAGCACCAGCTTCTACTGCCCTCCT
GCACCACTTCCACGTGGAGCCAGCAGACCCTGCTGGAGGCAGCGAGCAGGAGCACAGCACCTACATCTGC
AACAGAGGCAGCAGATCCTGCGGTAGTTGGCCGATGGGTGGCCCTGTATAGCCCGATGCTCCACTCGG
ATCCCGTGGCCACCAGCTTCTCCAGAAACTCTCAGACCTGGTGAGCAGAGATGCCCGACTTAGCAACTT
GCTGAGGGAACAGTATCCAGAGAGACGGCGACCCACAGGTTGGA AAAATGGCTGTGGAAACGTATCTCCT
CAGACCAAGGCCCGGAATGCACCTGTTTGGCTCCCTAACCAGGAGGAACCCCTCCCAAGCAGCGCGGGT
CCATCCGAGTTGGGGACAAAGTCCCTACGACATCTGCAGACCTGACCACTCAGTGCTGACCCTGCACCT
GCCGGTGACGGCCTCGGTGAGAGAAGTGTGGCAGCTTTGGCCATGAGGACCACTGGACCAAGGGACAG
GTGTTGGTGAAGTCAATTCTGCCGGTGTGTCGTTGGCTTGCAGCCAGATGCCCGTGGTGTGGCCACAT
CCCTGGGGCTCAACGAGCGGCTCTTTGTTGTCGACCCACAGGAAGTGCATGAGCTGACCCACACCTGA
GCAGCTGGGCCCACTCTGGGTTCTTCTGAGATGCTGGACCTAGTGAGCGCAAGGACCTGGCAGGCCAG
CTGACCGACCATGACTGGAACCTTTCAACAGGATCCACCAGGTGCAGGAGCACCTGCGGGATGTCACCA
CCGCGAACCTGGAGCGCTTCATGCGCCGCTTCAACGAGCTGCAGTACTGGGTGGCCACAGAGCTCTGTCT
CTGCCCTGTTCTGGCTCCCGGGCTCAGTACTCAGGAAGTTCATCAAGCTGGCAGCCCACTCAAGGAG
CAGAAGAACCTCAACTCTTTCTTGGCGTATGTTTGGCCTCAGCAACTCGGCCATCAGCCGGCTGGCCC
ACACCTGGGAGCGCCTGCCCCATAAAGTACGGAAGCTGTACTCAGCCCTGGAAAGGTTGCTGGACCTTC
CTGGAACCACCGAGTGTACCGATTGGCTCTCACCAAGCTCTCCCTCCTGTATCCCTTCTATGCCCTG
AGATGCGGATGATGGCCAGAGCGGTGCGGATGCTTCAACCTGCCGAAGTACAGTACCGGCCTATC
ACCACTCAGAAGCCGAGTGTCCACATCCACGAGGACAGCCAGGGATCAAGGATCTCCACGTGTTCTGAG
CAGTCCCTGAGCACCCGGAGTCCAGCCAGCACCTGGGCTTATGTCCAGCAGCTGAAGTCAATTGACAACC
AGCGGGAAGTGTCCCGCTCTCCCGGAGCTGGAACCATGA
    
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Restriction Sites: EcoRI-NotI
ACCN: BC020532
Insert Size: 2631 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:	<ol style="list-style-type: none">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:	BC020532 , AAH20532
RefSeq Size:	3644 bp
RefSeq ORF:	2631 bp
Locus ID:	223864
Cytogenetics:	15 F1
Gene Summary:	Guanine nucleotide exchange factor (GEF) for RAP1A and RAP2A small GTPases that is activated by binding cAMP. Through simultaneous binding of PDE3B to RAPGEF3 and PIK3R6 is assembled in a signaling complex in which it activates the PI3K gamma complex and which is involved in angiogenesis. Plays a role in the modulation of the cAMP-induced dynamic control of endothelial barrier function through a pathway that is independent on Rho-mediated signaling. Required for the actin rearrangement at cell-cell junctions, such as stress fibers and junctional actin (By similarity).[UniProtKB/Swiss-Prot Function]