

Product datasheet for **MC229271**

Rapgef4 (NM_001204165) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rapgef4 (NM_001204165) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rapgef4
Synonyms: 1300003D15Rik; 5730402K07Rik; 6330581N18Rik; Epac-2; EPAC 2; Epac2; mKIAA4040
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229271 representing NM_001204165
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCGTCGCGCAGCTGCACACTCTCAGTCCTCGGCCGAGTGGATCGCCTGCCTGGATAAAAGGCCGT
TGGAGCGATCTAGTGAAGATGTGGACATAATTTTCACGCGGCTGAAAGGAGTTAAAGCTTTTGAGAAATT
TCACCCAAACCTCCTTCGTCAGATTTGTTTATGCGGTTACTATGAGAACCTGGAAAAAGGAATCACACTG
TTTCGCCAAGGGGATATTGGAACCAACTGGTATGCTGCTCCTGGCTGGGTCTTTGGATGTTAAAGTGTCTG
AGACCAGCAGTACCAGGATGCGGTGACCATCTGCACTCTGGGAATTGGGACAGCCTTTGGAGAGTCCAT
TCTGGATAACACCCCTCGCCATGCAACCATCGTTACCAGGGAGAGCAGCGAACTTCTCCGCATTGAGCAG
GAGGACTTCAAGGCACTATGGGAGAAAACCGACAGTATATGGCCGGACTTCTGGCTCCTCCCTATGGTG
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CAAGACAATATTTATTTTATCGATTTCTGGATGACGAGCGTGAGGATGCCCTTTGCTACTGAGGAAG
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CATGAGAATGATCCTGCGAAAACCACTGGCCAGAGGACTGTGGATGACCTAGAGATTATCTACGACGAG
CTCCTTCATATTAAGCCTTATCCCATCTCTTACCACAGTAAAACGGGAGTTAGCAGGTGTTCTCATT
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TAAAGAACATGACCAAGATGCTTGGTACTGGAGAAGGTCCCAGCAGGGAACAGAGCTGCTAATCAAGGA
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AAACAATACGCCCTTGAGCCATCGTTGAATGAAGCAACAGATTCGGTTTTAAATGACTTTGTTATGATGCA
CTGTGTTTTATGCCAAATACCCAGCTTGGCCCTGTCGGCCATTACCACGCACAGCCTTCTCAA
GGTACCGAGCAGGAGAGAATGGATTATGCCCTCAACAACAAGAGGCGGGTCATCCGCTTGGTCTGCAGT
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CAAGTTTAAGAAGTTCTATGCGGAGTTTGGAGGCTTATGGATCCTTCCAGAAACACAGGGCATACAGG
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CTCATGAGGGGAACAAGACGTTTCATTGACAATCTAGTAACTTTGAAAAATGCGCATGATTGCAAAACAC
TGCCAGAACAGTACGGTACTACAGGAGCCAGCCCTTCAATCCGGATGCCGCTCAAGCTAATAAGAACCAT
CAGGATGTCCGGAGTTATGTACGGCAATTAATGTGATTGACAACCAGAGAACTTATCACAGATGTCAC
ACAGATTAGAGCCTCGAAGGCCA TAG

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001204165
- Insert Size:** 3036 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:** [NM_001204165.1](#), [NP_001191094.1](#)

RefSeq Size: 4220 bp

RefSeq ORF: 3036 bp

Locus ID: 56508

UniProt ID: [Q9EQZ6](#)

Cytogenetics: 2 C3

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).