

Product datasheet for **RN202178**

Rapgef5 (NM_001047915) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rapgef5 (NM_001047915) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rapgef5
Synonyms:	Mrgef; RGD1562891; rMR-GEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN202178 representing NM_001047915
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAGCTCCCGCCTGCGGGTCTTTGACCCCCCTAGAGAGGAAAGATTCGCCGCGCTCTCGGAGC
 GCCAGCTGCCCTTGCTACCTTCGATGTGCCTTATTTCAAATACATCGACGAAGAAGATGAGGACGATGA
 ATGGGGCAGCCGCTCACAGTCCCTCCACGGAGGATGACTCAGTGGACTCTCTGCTCTCTGACAGATATGTG
 GTGGTGTCTGGGACCCCGGAGAAGATCTTGAGACACCTTTTGAATGACTTACACCTGGCAGAGGTTGAGC
 ACAAGAAACAGAAACACTCCTTGATGACTTCTCCTCACGTATACGGTATTCATGACAACCGATGACTT
 GTGCCAGGCGCTGTTAAGACACTATTCTGCTAAGAAGTATCAAGGGGAAGAAGAAAACACTCAGATGTCCT
 TGTGGAAAGCGCAAGGTCTTACATCTGGTTTCCAGTGGATTTCTCTGTACAAGGACTGGCTGCATGAAG
 ATGAGCACTCAAAGATGTTTCTAAAGACCATATACAGGAACGTGCTGGATGACGCTATGAATATCCGAT
 CCTTGAGAAAGAGCTGAAGGAGTTTCAGAAGATACTGGGCATGCACCGCCGTCACACTGTTGATGAATAC
 TACCACAGAAGAAGAATAAAGCCCTCTCCATCAATTCAGTCTTAAGGAGAAGTGGCTCCAGCATAGAG
 GAACTGTGGCCGAAACAGAGGAAATTTTTTGGCCAGTGTATGTGACGGAGCACTCCTACATCAGTGTGAA
 GGCAAAAGTTTCTAGTACAGCCAGGAGATCCTGAAGGTTGTGGCCGAGAAGCTGCAGCGTGCCGAAGAG
 GATCTGGCTCTGGTGGCCATTATGTTCTCTGGAGAAAAGCATGAATTTACGCCAAATGACTTGGCCATTT
 CCAAAATCCCTGGAGGCATCTGGTCGGATATACGTCTACCGGAAAGATCTGGCTGACACTTTGAATCCTTT
 TGCAGAAAATGAGGAATCCAGCAAAGGTCGATGAGGATTTTGGGGATGAACACTTGGGACCTTGCTCTG
 GAATTAATGAGTTTTGATTGGAGTCTGTTCAATCAATCCACGAGCAAGAAGTCACTACTTCACATTCA
 GCAGACAGGGGACGGAGAGACACTGTGAACCTCAGCCTTCTGCTCCAGAGATGTAACGAGGTTCCAGCT
 CTGGGTGGCCACGGAGATTCTGCTCTGCAGCCAGCTAGGCAAGCGGTGCAGCTGGTGAAAAAATTCATC
 AAGATTGCTGCTCACTGCAAAGCCAGCAGAACCTAAACTCCTTCTTTGCCATCGTGATGGGTCTCAACA
 CCGCCTCTGTCAGCCGGCTGTCACAGACCTGGGAGAAAATTCCTGGGAAGTTTAAGAAAATTTTCTCTGA
 ACTTGAGAGTTTAAACGGATCCTTCCCTAAACCACAAGGCCTACAGGGATGCATTCAAAAAGATGAAGCCG
 CCAAAAATCCCTTTCATGCCCTTACTGCTTAAAGATGTAACATTTATTTCATGAAGGAAATAAAACATTCC
 TGGATAATCTTGCAATTTTAAAAGCTGCACATGATCGCAGATACTGTCCGAACCTGAGACACTGCAG
 GACTAACCAAGTTTGAAGCGACATGTCTCAAAGGAGCAGCAAGAGCTGAAGTCCATGTCAACCACTG
 TATGTCATCGACAGCCAGCAAGCCCTGTTGAGCTCTCTCACAGGCTGGAGCCTCGAGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001047915

Insert Size: 1743 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:

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_001047915.1](#), [NP_001041380.1](#)

RefSeq Size: 5460 bp

RefSeq ORF: 1743 bp

Locus ID: 362799

UniProt ID: [P83900](#)

Cytogenetics: 6q33

Gene Summary: Guanine nucleotide exchange factor (GEF) for RAP1A, RAP2A and MRAS/M-Ras-GTP. Its association with MRAS inhibits Rap1 activation (By similarity).[UniProtKB/Swiss-Prot Function]