

Product datasheet for **RN207125**

Rapgef3 (NM_021690) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rapgef3 (NM_021690) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rapgef3
Synonyms:	Epac
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN207125 representing NM_021690
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGTGAAGAGAATGCACCGTCCCGGTGCTGCTCTTACCAGCTAGTGTTCGAGCACCGGCCCCAA
 GCTGCATCCAGGGACTTCGCTGGACGCCACTTACCAACAGTGAGGGCTCCCTGGACTTCAGAGTGAGCCT
 GGAGCAGGCCACCACAGAGCATGTGCACAAGGCCGGGAAGCTCCTGTACCCTCATCTCTGGCAACGTAC
 CCTACCCTCATCCGAGACAGAAAATACCATCTGCGACTACATCGGCAGTGTGCTCTGGCCGGGAGCTAG
 TGGATGGGATCTGGCTCTGGGTCTTGGGGTCCACTCACGGAGCCAAGCTGTGGGCATCTGCCAGGTGTT
 GCTGGATGAGGGTGCCCTTTGCCATGTA AACATGACTGGACCTCCAGGACCGAGACGCCCAATTCTAC
 AGATTCCTGGACCGGAGCCCGAGCCTGCAGGAAGCTCATGACGTGAAGAGGAGCTTGTGAGGCAATGG
 CCCTACTCTCCAGCGAGGGCCTGATGCCCTACTCACTGTTGACTCCGGAAGTCCCGGGTCAGCGTAC
 AGATGAAGAGCTGGACCTCATCTTCGAGGAGCTGTACATATCAAGGCGGTGGCTCACCTTTCTAACTCG
 GTGAAACGGGAAGTAGCTGCTGTTCTGCTTTGAACCACACAGCAAGGCAGGAAGTGTGTTGTTACGCC
 AGGGGGACAAGGGTACCTCATGGTACATTATCTGGAAGGGATCTGTCAATGTGGTGACCCGTGGCAAGGG
 GCTGGTGACCAGTTGCACGAGGGAGATGACTTTGGACAGCTGGCTCTGGTGAACGACGCACCTCGAGCA
 GCCACCATCATCTTCGAGAAAAAAGTGTCACTTTCTGCGTGTGGACAAGCAGGACTTCAACCGCATCA
 TCAAGGATGTGGAAGCAAAAACCATGAGACTGGAAGAACACGGCAAGTGGTGTAGTTTTGGAGAGAAC
 CTCTCAGGGTGTGGCCCTTCCCGCCCTCCGACCCAGGCAGGAACCGATATACGGTAATGTCTGGCACC
 CCAGAGAAAACTAGAACTCCTGTTGGAGGCTATGAGACCGGATTCCAGTGCTCATGACCAACACAGAGA
 CATTCTCAGTGACTTCTGCTGACGCACAGTCTTTCATGCCCTGCACACAGCTCTTGGCCCTCTCT
 GCACCATTCCACGTGGAGCCATCAGAGCCTGCCGGGGCAGCGAGCAGGAACGCAGCACCTACATCTGC
 AACAAAGAGGCAGCAGATTCTGCGTCTGGTCAGCCGGTGGTGGCCCTCTACAGCCCCATGCTCCGCTCAG
 ATCCCGTGGCCACCAGCTTCTCCAGAACTCTCAGACCTGGTGAGCAGAGATACCCGACTTAGCAACTT
 GCTGAGGGAACAGTATCCGGAGAGACGGCGACACCACAGGTTGGAGAATGGCTGTGGAAATGTATCTCT
 CAGACCAAGGCCCGGAATGCACCTGTTTGGTTTCCCTAACCATGAGGAACCCCTCCCAAGCAGCGTGGGG
 CCATCCGAGTCGGGGACAAAGTCCCTATGATATCTGCAGACCCGACCACTCGGTGCTGACCCTGCACCT
 GCCGGTGACAGCCTCCGTGAGGGAAGTGTGGCAGCTTTGGCCATGAGGACCACTGGACCAAGGGGCGAG
 GTGCTGGTAAAGTCAATTCTGCCGGTGTGCTGTTGGCTTGACGCCAGATGCCCGGGTGTGGCCACAT
 CCCTGGGGCTCAATGAGCGGATCTTGTGTCGACCCACAGGAAGTGCAGGAGCTGACCCACACCCCTGA
 GCAGCTGGGGCCCACTCTGGGTTCTTCTGAGATGCTGGACCTAGTGAGTGCCAAGGACCTGGCAGGCCAG
 CTCACAGAGCATGACTGGAACCTCTTCAACAGGATCCACCAGGTGGAGCTGATCCACTATGTAAGTGGCC
 CCCAGCACCTGCGGGACGTCACTACTGCAAACCTGGAGCGCTTCATGCGACGCTTCAACGAGCTGCAGTA
 CTGGGTGGCCACCAGCACTCTGTCTCTGCCCGTTCCTGGCCCCGGGCTCAGTACTCCGGAAGTTCATC
 AAGCTGGCAGCCACCTCAAGGAGCAGAAGAATCTCAACTCTTTCTTGGGTGATGTTTGGCCTCAGCA
 ACTCGGCCATCAGCCGCTGGCCACACCTGGGAGCGCTGCCCCATAAAGTACGGAAGCTGTACTCGGC
 CCTGGAAGGTTGCTGGACCTTCTGGAACACCGAGTGTACCGATTGGCTCTCACCAAGCTCTCTCCT
 CCTGTATCCCTTTCATGCCCTGCTACTCAAAGACATGACCTTATTGATGAAGGGAACACACACTGG
 TAGAAAACCTCATCAACTTTGAGAAGATGCGAATGATGGCCAGAGCCGTGCGGATGCTCCACCCTGCCG
 AAGCCACAGCACCGCCTCTATCACCCTCAGAAGCCGGGTTTCCACATCCACGAGGACAGCCAGGCA
 TCAAGAATCTCCACATGTTCCGAGCAGTCCCTGAGCACCCGGAGTCCAGCCAGCACCTGGGCTTATGTCC
 AGCAGCTGAAGGTCATTGACAACCAGCGGGAAGTGTCCCGCTCTCCCGGAACTGGAACCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_021690

Insert Size:	2655 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:	<u>NM_021690.1</u> , <u>NP_067722.1</u>
RefSeq Size:	3373 bp
RefSeq ORF:	2655 bp
Locus ID:	59326
UniProt ID:	<u>Q9Z1C8</u>
Cytogenetics:	7q36
Gene Summary:	binds cAMP and activates the Ras superfamily guanine nucleotide binding protein (Rap1A)in a PKA-independent manner [RGD, Feb 2006]