

Product datasheet for **RR205445**

Rasgrp1 (NM_019211) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasgrp1 (NM_019211) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rasgrp1
Synonyms:	Rasgrp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR205445 representing NM_019211
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAACCTGGGCAAGGCGAGAGAGGCTCCGCGGAAACCTTGCCATGGCTCCAGAGCTGGCCCCAAAG
 GAAGACTAGAGGCCAAATCAACCAACAGTCCTCTCCCTGCCAGCCAGCTTGGCCAGATCACCCAGTT
 CCGAATGATGGTGTCCCTGGGACATCTGGCCAAAGGAGCCAGCCTGGATGATCTTATTGACAGCTGCATT
 CAATCTTTCGATGCAGATGGAAACCTGTGTGCAAGTAACCAGCTGTTACAAGTCATGCTAACCATGCACC
 GAATCATCATCTCCTCGGCCGAGCTGCTGCAAAAACCTCATGAATCTATATAAGGACGCCCTGGAAAAAGAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205445 representing NM_019211
 Red=Cloning site Green=Tags(s)

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MGTLGKAREAPRKPC HGSRAGPKGRLEAKSTNSPLPAQPSLAQITQFRMMVSLGHLAKGASLDDLIDSCI
QSFADAGNLCRSNQLLQVMLTMHRIIISSAELLQKLMNLYKDALEKNSPGICLKICYFVRYWITEFWIMF
KMDASLTSTMEEFQDLVKANGEESHCHLIDTTQINSRDWSRKLQRIKSNTSKKRKVSLLFDHLEPEELS
EHLTYLEFKSFRRISFSDYQNYLVNSCVKENPTMERSIALCNGISQWVQLMVL SRPTPQLRAEVFIKFIH
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SQEEFEKIAASFPPSFCVMDKDREGLISRDEITAYFMRASSIYSKLGFGPHNFQETTYLKPTFCDNACAG
FLWGVIKQGYRCKDCGMNCHKQCKDLVVFECCKRSKSPAVSTENISSVPMSTLCPLGTDLLHAPEEGS
FIFQNGEVVDHSEESKDRTIMLLGVSSQKISVRLKRTVAHKTTQTESFPWVGEMPPGHFVLTSPRKSQAQ
GALYVHSPASPCPSPALVRKRAFKWENKESLIKPKPELHLRLRTYQELEQEVNTRLADNDALKIQLKYA
QKQIESLQLGKSNHVLAQMDHGDGT
  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_019211

ORF Size: 2385 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_019211.2](#), [NP_062084.2](#)

RefSeq Size: 3624 bp

RefSeq ORF: 2388 bp

Locus ID: 29434

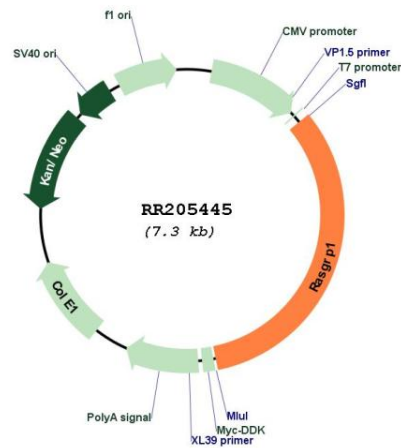
UniProt ID: [Q9R1K8](#)

Cytogenetics: 3q35

MW: 90.2 kDa

Gene Summary: putative guanine nucleotide exchange factor with Ca²⁺ and diacylglycerol binding domains; may activate Rap protein mediated inhibition of Ras signaling pathways [RGD, Feb 2006]

Product images:



Circular map for RR205445