

Product datasheet for **RR211851**

Rasa3 (NM_031574) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasa3 (NM_031574) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rasa3
Synonyms:	R-ras gap
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RR211851 representing NM_031574
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGTGGAGGAAGAGGGACTGCGGGTCTTCCAGAGCGTGAGGATCAAGATTGGTGAAGCCAAGAATC
TCCTTCTACCCGGGGCCAAACAAGATGAGGGACTGCTACTGCACTGTGAACCTGGACCAGGAGGAGGT
TTCCGGACCAAATCGTAGAGAAGTCACTCTGCCCTTTTACGGAGAGGACTTTTACTGTGAAATTCCT
CGGAGTTTCCGCCACCTGTCCTTTTACATTTTTGATAGAGACGTTTTCCGAAGGGATTCCATCATAGGCA
AGGTGGCCATCCAGAAGGAAGACTTGCAAAGGTACCACAACAGGGACACATGGTTCCAGCTCCAGCATGT
GGATGCTGACTCAGAGGTGCAGGGCAAGGTCCACCTGGAGCTGAGACTGAGTGAGTGCATTACAGACACT
GGTGTGTCTGTCAAACTCGTGCACGCATCTTCGAGTGCCAGGGACTCCCCATTGTGAACGGGCAGT
GCGACCTTACGCCACCGTGACATTGGCCGGACCCTTCAGGTCTGAAGCGAAGAAAACCAAGGTGAAGAA
GAAAACCAACAACCCCCAGTTTCGATGAGGTGTTTTATTTGAGGTGACCAGACCTGCAGCTACAGCAA
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TTCTTACGAAGCCTGGTACTTCTCCAGCCCCGAGACAATGGCAGTAAGAGCGTGAAGCCAGATGACTTA
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GCCACCATGAGGAGATCTGCCAGAGCCATAAGTCTGTGAGATCGACCCTGTGAAACTGAAAGATGGC
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CCAAGATGACTTGGATGTGAGGTATACCGCCGTGAGCAGCTTCATCTTCTGAGGTTCTTCGCTCCCGCT
ATCCTGTCCCCGAACCTTTTCCAGCTGACGCCCCACCATACGGATCCACAGACTTCTAGAACCCTGACGC
TTATCTCAAAGACCATCCAGACCCTTGGCAGCTTGTCCAAGTCCAAGTCTGCCAGTTTTAAGGAGTCATA
CATGGCGACGTTCTATGAATCTTCAATGAGCAGAAGTATGCAGATGCCGTAAGAATTTCTGGATTTG
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GCCGTGGAGAGGTTAGAGGAGGAGTCTTCCGAATGAAAAATATGTTCCAGGTATCCAGCCAGAGCGTG
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GCAGGAGGCTGCGGCAGCAAGTCCGTATACGATGGCCCTGAGCAGGAGGAATACTCAACATTTCATC
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ACGCGCAGTACAGGAGGAACAAGTTCAAGAAGCAGAGTACGGGAGCCAGGAGCACCCCTATTGGAGACAA
GAGCTTCCAGAACTACATCAGGCAGCAGTCTGAGATCTCAACCCATTCCATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211851 representing NM_031574
Red=Cloning site Green=Tags(s)

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MAVEEEGLRVFQSVRIKIGEAKNLPSYPGPNKMRDCYCTVNLDQEEVFRTKIVEKSLCPFYGEDFYCEIP
RSFRHLSFYIFDRDVFRRDSIIGKVAIQKEDLQRYHNRDTWFQLQHVADSEVQGVHLELRLSEVITDT
GVVCHKLAARIFECQGLPIVNGQCDPYATVTLAGPFRSEAKTKVKKKTNNPQFDEVFYFEVTRPCSYSK
KSHDFEEDVDKLEIRVDLWNASNLKFGDEFLGELRIPLHVLRYASSYEAWYFLQPRDNGSKSVKPDLL
GSLRLNVVYTEDHVFSSSEYYSPLRDLLLKSADVEPVSSASAAHILGEVCRDKQEAAPLVRLLLHYGRVVP
FISAIASAEVKRTQDPNTIFRGNSLTSKCIDETMMLAGMHYLVTLKPTIEEICQSHKSCEIDPVKLDKG
ENLENNMESLRQYVDRIFSVITKSGVSCPTVMCDIFFSLREAAAKRFQDDL DVRYTAVSSFIFLRF FAPA
ILSPNLFQLTPHHTDPQTSRTLTLISKTIQTLGSLSKSKSASFKESYMATFYEFFNEQKYADAVKNFLDL
ISSSGRRDPKSIEQPILLKEGFMKRAQGRKRFGMKNFKKRWFRLTNHEFTYQKSKGDQPLCNIP IENIL
AVERLEEEESFRMKNMFQVIQPERALYIQANNCVEAKDWIDILTKVSQCNOKRLTVFHPSAYLNHWLCCR
ASSDTAIGCTPCTGGLPANIQLDIDGDRETERIYSLFNL YMGKLEKMQEACGSKSVYDGPEQEEYSTFII
DDPQETYRTLKQVIAGVGTLEQEHAQYRRNKFKKTRYGSQEHPIGDKSFQNYIRQQSEISTHSI
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

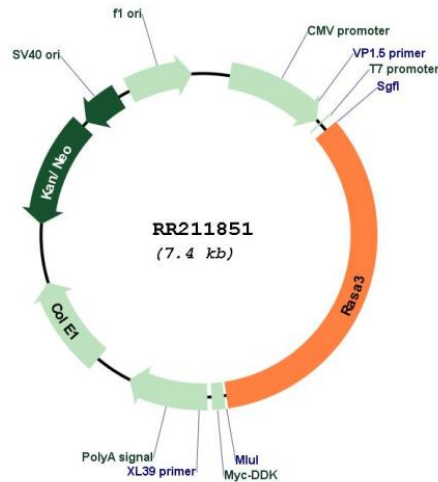
Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_031574

ORF Size: 2502 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_031574.1](#), [NP_113762.1](#)

RefSeq Size: 2518 bp

RefSeq ORF: 2505 bp

Locus ID: 29372

UniProt ID: [Q9QYJ2](#)

Cytogenetics: 16q12.5

MW: 96 kDa

Gene Summary: R-ras GTPase activating protein [RGD, Feb 2006]