

Product datasheet for **RR206131**

Rasa1 (NM_013135) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasa1 (NM_013135) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rasa1
Synonyms:	GAPX; Rasa
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206131 representing NM_013135 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGGCGGCCGAGGCGGGCAGTGAGGAAGGCGGCCCGGCGACCGCGGGGACCGCGGGCGCCGCGGCCA
CGGGCTCCAGCGCTACCCAGCAGCGTGCCGGTAAAGTTACCCGCGGCCCTCCGATGGCAGTCGCCCC
GTGTCCTGGGCTGGCGGACCCGACCTGGCTGCGGCCCTCGTGGGGAGCCGCGTGGGGTCCGGGTTCC
CTGGGGACCGGGCCGGTGTCTGGTGTCTGGGGGCGCCGCGCTACCGCGGTGCTGCAGCTGGCGTGG
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GACTCTCGGGCCGGGCGGCGGATTCCCTCCTGCGCCCTCCTCCTGTGCTCCTTTGGGCTCCGGT
CTGGGGACAGTGGATGAAGGTGACTCCTGGATGGACCAGAATACGAGGAGGAAGAGGTGGCCATACCGC
TGACCGCACCTCCAATAACCAAGTGGTATCATGAAAACTTGATAGAACTATAGCAGAAGAAGCGCTCAG
GCAGGCAGGAAATCTGGAAGCTACCTATAAGAGAGAGTGATCGGAGGCCAGGGTCTTTGTACTTTCA
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GAAGCTTATAATTTAATGACAGTTGGCCAAGTCTGCAGCTTTCTTGTGAGGCCCTCAGATAATACTC
CTGGAGATTATCCCTGTATTTTCGACCAATGAAAATATCCAGCGATTTAAAATTTGTCCAACACCTAA
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GTGTATGTTCTGTCTACGTTGTCCATGATAGTCTCTTCGGCAGGCCAAACTGTTTTTCAGATAGTCGTTCA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206131 representing NM_013135
 Red=Cloning site Green=Tags(s)

MMAAEAGSEEGPATAGTGGAAATGSSAYPAACRVKLPAPPMVAVPCPLADTDLAAALGGGAASGSGF
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 LGTVDEGDSLDPPEEEEEVAIPLTAPPTNQWYHGKLDRTIAEERLRQAGKSGSYLIRESDRRPGSFVLS
 FLSQTNVNHFRIIAMCGDYIIGRRFSSDLIGYYSHVSCLLKGEKLLYPVAPPEPVEDRRRVRAILP
 YTKVPDTEISFLKGMFIVHNELEDGMMWVTNLRDEQGLIVEDLVEEVGREEDPHEGKIWFHGKISKQ
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 QIVEGYLKEPVPMDQGVLDNVDGKEIYNTIRRKTKDAFYKNIKKGYLLKKGKGRWKNLYFILEG
 SDAQLIYFESEKRATKPKGLIDLSVCSVYVHDSLFGRPNCFQIVVQHFSEEHYIFYFAGETPEQAEDWM
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 MEDEATTLFRATTLASTLMEQYMKATATQFVHHALKDSILKIMESKQSCELSPSKLEKNEDVNTNLHL
 SILSELVEKIFMASEILPPTLRYIYGCLQKSVQHKWPTNNTMRTRVVSFVFLRLICPAILNPRMFNIIS
 DSPSPIAARTLTLVAKSVQNLANLVEFGAKEYMEGVNPFIKSNKHRMIMFLDELGNVPELPTDTEHSRT
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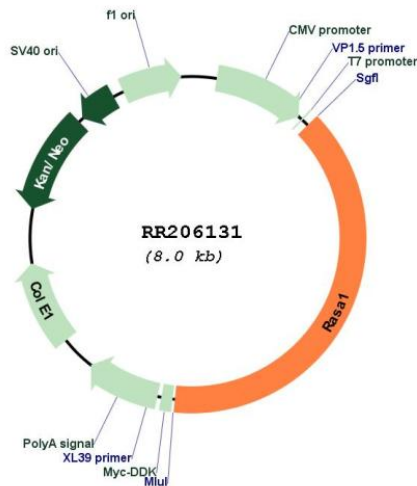
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_013135

ORF Size:

3114 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:	<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_013135.1</u> , <u>NP_037267.1</u>
RefSeq Size:	3117 bp
RefSeq ORF:	3117 bp
Locus ID:	25676
UniProt ID:	<u>P50904</u>
Cytogenetics:	2q11
MW:	115.4 kDa
Gene Summary:	may play a role in Ras GTPase mediated signal transduction; may be involved in cell proliferation and cell migration [RGD, Feb 2006]