

## Product datasheet for **RR209818**

### Rap2b (NM\_133410) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rap2b (NM\_133410) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rap2b  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR209818 representing NM\_133410  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGAGAGTACAAAGTGGTGGTACTGGGCTCGGGTGGCGTGGGCAAGTCCGCGCTCACCGTGCAGTTCC  
TAACAGGTTCTTCATCGAGAAGTACGACCCAACCATCGAAGACTTTTACCGCAAGGAGATCGAGGTGGA  
TTCGTCGCGTCCGTTCTGGAGATCCTGGACACCGGGCACGGAGCAGTTCGCTTCCATGCGGGACCTG  
TACATCAAGAATGGCCAGGGCTTCATCCTCGTCTACAGCCTGGTCAACCAGCAGAGCTTCCAGGACATCA  
AGCCCATGCGGGACCAGATCATCCGCGTAAACGGTACGAGCGCTACCCATGATCCTGGTAGGCAACAA  
GGTGGACCTGGAGGGCGAACGTGAGGTCTCCTATGGCGAGGGCAAGGCCCTGGCCGAGGAGTGGAGCTGC  
CCCTTCATGAAACATCGGCCAAAAACAAAGCCTCAGTGGATGAGCTATTCGAGAGATCGTGAGGCAGA  
TGAACACGCGGCACAGCCCAACGGCGACGAGGGCTGCTGCTCGGCCTGCGTGATCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR209818 representing NM\_133410  
**Red=Cloning site Green=Tags(s)**

MREYKVVVLGSGGVGKSALTVQFVTGSFIEKYDPTIEDFYRKEIEVDSSPSVLEILDAGTEQFASMRDL  
YIKNGQGFILVYSLVNQSFQDIKPMRDQIRVKRYERVPMILVGNKVDLEGEREVSYGEGKALAEWESC  
PFMETSANKKASVDELF AEIVRQMNYYAQPNGDEGCCSACVIL

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

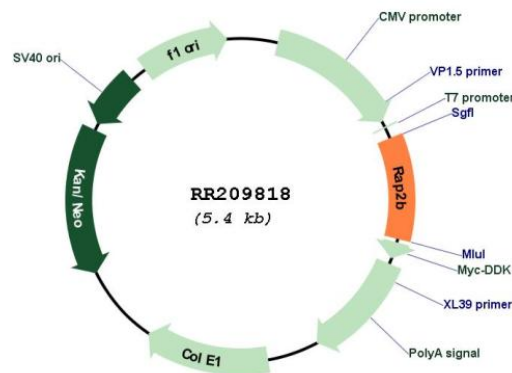


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## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_133410

ORF Size: 549 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_133410.1</a></u> , <u><a href="#">NP_596901.1</a></u>
<b>RefSeq Size:</b>	552 bp
<b>RefSeq ORF:</b>	552 bp
<b>Locus ID:</b>	170923
<b>UniProt ID:</b>	<u><a href="#">P61227</a></u>
<b>Cytogenetics:</b>	2q31
<b>MW:</b>	20.5 kDa
<b>Gene Summary:</b>	member of RAS oncogene family [RGD, Feb 2006]