

## Product datasheet for **RR204935**

### Car4 (NM\_019174) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Car4 (NM\_019174) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Car4  
**Synonyms:** Ca4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR204935 representing NM\_019174  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCAGCTCCTTCTTGTCTACTGGCGCTGGCTTACGTGGCCCCCTCTACTGAAGATTCACACTGGTGCT  
ATGAGATTC AAGCAAGGAGCCCAACAGCCATTGCTCAGGGCCTGAACAATGGACTGGAGACTGTAAGAA  
GAACCAGCAGTCTCCTATCAATATTGCTACTAGTAAGACAAAGTTGAACCCAGTCTGACACCCTTCACT  
TTCGTTGGCTATGACCAAAGAAGAAGTGGGAAGTTAAGAACAACCAACTCAGTGGAATGTCGCTGG  
GGGAGGACATCTATATTTTGGAGGAGATCTGCCACCCAGTACAAGGCCATACAGTTACACCTGCACTG  
GTCAGAGGAGTCGAACAAGGGTTCAGAGCACAGTATTGATGGGAAACATTTTGCCATGGAGATGCATGTC  
GTGCATAAGAAGATGACAACAGGCGATAAAGGTGCAGGACTCGGACTCCAAGGACAAGATTGCGGTGCTGG  
CATTGATGGTTGAGGTGGGAAACGAGGTAACGAGGGCTTCCAGCCCCTGGTGGAGGCACTGTCCAGGCT  
CTCCAAACCCTTTACAACTCCACAGTGAGTGAGAGCTGCCTGCAGGATATGCTTCTGAAAAGAAGAAA  
CTGTCTGCCTACTCCGTTACCAGGGCTCACTGACTACACAGGCTGTGATGAGACTGTCATCTGGACTG  
TGTTTCGAGGAACCTATTAAGATCCATAAAGACCAGTTCTCGAATTCTCAAAAAGCTCTACTATGACCA  
AGAACAGAAGTTGAACATGAAGGACAATGTGAGGCCCTGCAGCCACTGGGAAACCGCCAGGTGTTCAAG  
TCTCATGCCTCAGGACGACTGCTGTCTTTGCCCTGCCACTCTATTGGTCCCCCACTCACCTGCCTGG  
TGGCCAGCTTCTCCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR204935 representing NM\_019174  
Red=Cloning site Green=Tags(s)

MQLLLALLALAYVAPSTEDSHWCYEIQAKEPNSHCSGPEQWTGDCKKNQSPINIVTSKTKLNPSLTPFT  
 FVGVDQKKKWEVKNNQHSVEMSLGEDIYIFGGDLPTQYKAIQLHLHWSEESNKGSEHSIDGKHFAMEMHV  
 VHKKMTTGDKVQDSDSKDKIAVLAFMVEVGNEVNEGFQPLVEALSRLSKPFTNSTVSESLQDMLPEKKK  
 LSAYFRYQGSLLTPGCDETVIWTVFEETPIKIHKQDFLEFSKKLYDQEQLNMKDNVRPLQPLGNRQVFR  
 SHASGRLLSLPLPTLLVPTLTCLVASFLH

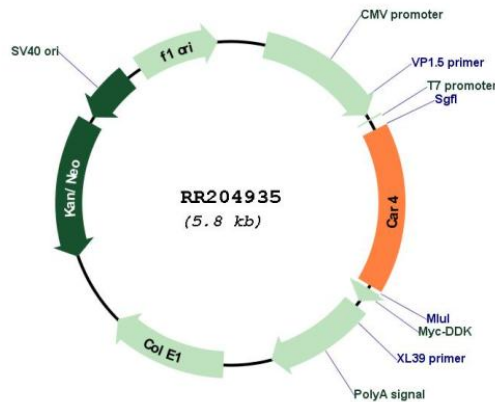
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_019174

**ORF Size:** 927 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_019174.3</a> , <a href="#">NP_062047.1</a>
<b>RefSeq Size:</b>	1266 bp
<b>RefSeq ORF:</b>	930 bp
<b>Locus ID:</b>	29242
<b>UniProt ID:</b>	<a href="#">P48284</a>
<b>Cytogenetics:</b>	10q26
<b>MW:</b>	35.1 kDa
<b>Gene Summary:</b>	may be involved in carbon dioxide exchange and pH regulation [RGD, Feb 2006]