

## Product datasheet for **RR204765**

### Ca5a (NM\_019293) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ca5a (NM\_019293) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ca5a  
**Synonyms:** Ca5; Car5a  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR204765 representing NM\_019293  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCTCAGAGCCAAGATGCTCGGGAGAGGCCCTACAAGCCCTTAGCCATCCTCAGGCACATGGGACCTC  
TCTGTGCCACAAGGCCACAGCACTGGCGCTTCCAGCATTCTACGCAGAGAAACACAGCAACTGTGCCCC  
GCACCCCTCTGGACTGGCCAGTGTCTCACCGGGAGGCACCCAGCAGTCTCCATTAATCCAGTGG  
ACGGATAGTGTCTATGACCCGAAGCTGGCACCGCTCAGGGTCTCCTATGATGCTGCGTCCCTGCAGATACC  
TCTGGAACACTGGTTACTTCTTCCAGGTGGAGTTTGACGATTCCTGTGAGGAGTCAGGGATCAGTGGTGG  
GCCTCTGGGAAACCACTACAGGCTGAAGCAGTTTCACTTCCACTGGGAGCAACAGATGAATGGGGCTCT  
GAGCACATGGTGGACGGCCATGCCTACCCGGCTGAGCTCCATTTGGTTCCTGGAATTCATGAAATATG  
AAAATTACAAGAAAGCCACCACGGGGGAGAATGGACTGGCGGTGATTGGAGTGTCTGAAGCTCGGGC  
CCATCACGAGGCCCTGCAGAGGCTGGTGGACATCTTGCCGGAAGTAAGACACAAGGACACACAGGTGACC  
ATGGGGCCCTTTGACCTTCTTGCCTGCTGCCTGCCTGCCGGGATTACTGGACCTACCCCTGGCTCCCTCA  
CCACCCCACTGGCTGAGTCAGTCACCTGGATTGTGCACAAGATGCCCATTTGAGGTGTCCCGAGCCA  
GCTGTCCACATTCCGTACTACTTGTCTCCGGCGAGGTGAGGACGAGGAGGTGATGGTGAACAACCTTC  
CGCCCGCTCAACCACTCAGGGCCGCAACGTTGCTCCTCCTTCCAGGTCCCAGGGTGGGAACAAAGT  
CT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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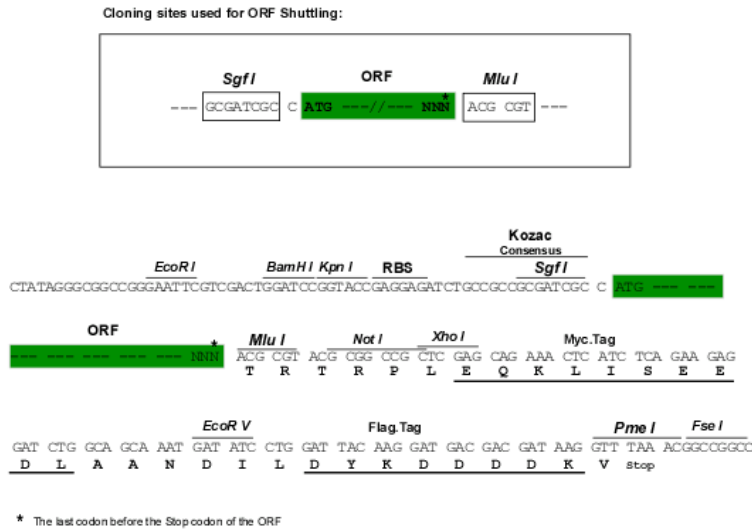
**Protein Sequence:** >RR204765 representing NM\_019293  
Red=Cloning site Green=Tags(s)

MLRAKMLGRGPYKPLAILRHMGPLCATRPQHWRWFQHSYAEKHSNCARHPLWTGPVSSPGGTQQSPINIQW  
 TDSVYDPKLAPLRVSYDAASCRLWNTGYFFQVEFDDSCSESGISGGPLGNHYRLKQFHFWGATDEWGS  
 EHMVDGHAYPAELHLVHNSMKYENYKKATTGENGLAVIGVFLKLGAAHEALQRLVDILPEVRHKDTQVT  
 MGPFPDPSCLLPACRDYWTYPGSLTPPLAESVTWIVHKMPIEVSPSQLSTFRTLLFSGRGEDEEVMVNNF  
 RPLQPLRGRNVRSSFQVPRVGTKS

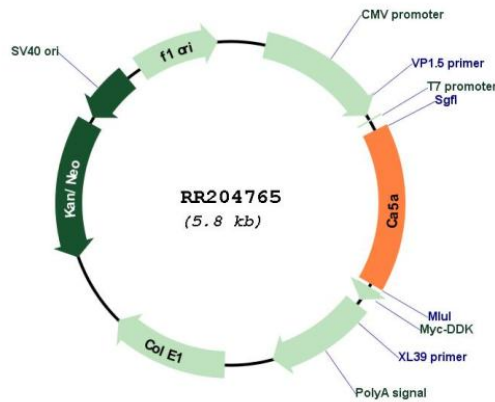
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_019293

**ORF Size:** 912 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_019293.3</a> , <a href="#">NP_062166.1</a>
<b>RefSeq Size:</b>	1260 bp
<b>RefSeq ORF:</b>	915 bp
<b>Locus ID:</b>	54233
<b>UniProt ID:</b>	<a href="#">P43165</a>
<b>Cytogenetics:</b>	19q12
<b>MW:</b>	34.5 kDa
<b>Gene Summary:</b>	mitochondrial protein that may be involved in gluconeogenesis and ureagenesis [RGD, Feb 2006]