

## Product datasheet for **RR216894**

### **Cars2 (NM\_001177684) Rat Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | Cars2 (NM_001177684) Rat Tagged ORF Clone |
| Tag:                      | Myc-DDK                                   |
| Symbol:                   | Cars2                                     |
| Synonyms:                 | RGD1311612                                |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-Entry (PS100001)                    |
| E. coli Selection:        | Kanamycin (25 ug/mL)                      |



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**ORF Nucleotide Sequence:**

>RR216894 representing NM\_001177684  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGAGGGCGCTCCGGCTGGCCGGGCGCTCCGCTGCTCCGGGCCGCGCTTGTCTCGGGCGGCGG  
 GCGGGCATGGCAACGGCCACAAGGCCAGGACACCGGTGTGCAGGTGCATAACAGCCTCACAGGCAAGAA  
 GGAGCCGCTGATCGTGGGCCGCTCGGACGAGTCTCCTGGTATAGCTGTGACCGACTGTGTACGACCAT  
 GCGCACCTTGGCCATGCTTGCTCATATGTCAGATTTGACATCATCCGAAGGATCCTGACCAGTGTGTTTG  
 GATGCAATGTTGTCATGGCGATGAGCATTACCGATGTGGATGATAAAATAATCAAGAGAGCTAACGAGAT  
 GAACGTGTCGCCGCTTCTCTTCCAGCCTTTTGGAGGAAGATTTAAACAAGACATGGCAGCCCTGAAG  
 GTCCTGCCCAACCGTGTACTTGAGAGTACCGAGAACATCCCTCAGATCATCTCTTTCATCCAAGGCA  
 TCATTGCCATGGCCATGCTTACGCGACAGCCACAGGTAGCGTCTACTTTGATTTGCGAGCAGGAGGGA  
 CAAGTATGGCAAGCTGGTCAACACGGTCCCAGTGCAGTGCAGAGCCAGCAGTTGACTCTGACAAGAGG  
 CACAGCAGCGACTTTGCCCTGTGGAAGGGAGCCAAACCCAGGAGGTGTTCTGGGCTCACCGTGGGGAG  
 ACGGCCGGCCGGATGGCACATCGAGTGTCTGCCATGGCCAGCGAGGTGTTCCGGAAGCCAACTGGACAT  
 CCACACCGGCGGCATAGACTTGGCTTCCACATCATGAAAATGAAATCGCACAGAGTGAAGTCTCCAC  
 CAGTGCCAGCAGTGGGAAATTACTTCTACATTCGGGTCATTTGCATGTGAAAGGCAAAGAAGAGAAGA  
 TGTCCAAATCCATAAAAACTACATTACTATTAAGGACTTCTGCAGACCTTCTCTCCCGATGTCTCCG  
 GCTTTTCTGCTTGGCACCACCTATCGGTCAGCCATTGACTACAGTGACAGTACCCTGGAGGAAGCCAGG  
 CACCTCTGCTGGGGCTAGCCTCTTTTGGGAGGATGCACGAGCCTATGTAAGGGGCGAGCTGATCTGTG  
 GCCCTGTTGGGGAAGATGTGCTGTGGGAGAGGCTGGCTAGCACCAGAAGGCCGTAAGGCTGCACTAGC  
 CAATGACTTTGACACACCGAGGGCAGTGAACCTCATCCTGGACCTTGTGCACCATGCAAACAGACAGCTC  
 AGGGCAGTCTCAAAGGAAGCTGGTGGCCCGAGAAGTCCCCTGTGTTTGGGGCCATCGTTGCCTACGTTG  
 AGCAGTTTTTCGAGACTGTTGGGATTTCTCGCCAAGCGACAGTGTGTTTCAGGAGACAGCAGCACAGT  
 AGCCCTGCACTGTGTGTAGATGAACTAGTGCCTTCAGGCTTAAGGTCGCCAGTATGCACTGGCCACG  
 CCTGGGGCCACCGGGAGGCCCGAAACAGCAGCTCCAGGAGAGGCAGCCCTTCTGAGGATGTGACG  
 CACTCCGCCAGGACCTCATGACCACGGCATCAATGTTAAGGACAGAGCCATGCAGCCTCCACATGGGA  
 ACTGCTGGATCCGAGGACAAAACACCAGAAGCCCGGGACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216894 representing NM\_001177684  
 Red=Cloning site Green=Tags(s)

MLRALRPGPGAPLLRAALVLRGRRAWQRPQGQDTGVQVHNSLTGKKEPLIVGRSDAVSWYSCGPTVYDH  
 AHLGHACSYVRFDIIRRLTSVFGCNVVMAMSI TDVDDKIIKRANEMNVSPASLASLFEFEFKQDMAALK  
 VLPPTVYLRVTENIPQIISFIQGIIAHGAYATATGSVYFDLRARGDKYKLVNTVPSATAEPAVDSDKR  
 HSSDFALWKGAKPQEVFWASPWGDGRPGWHIECSAMASEVFGSQLDIHTGGIDLAFPHHENEIAQSEVFH  
 QCQWGNVYFLHSGHLHVKGKEEKMSKSLKNYITIKDFLQTFSPDVFRFLCLRTNYRSAIDYSDSTLEEAR  
 HLLLGLASFVEDARAYVKQLICGPVGEDVLERLASTKKAVKAALANDFDTPRAVNSILDVHHANRQL  
 RAVSKEAGGPRSPVFGAIVAYVEQFFETVGISLAKRQCVSGDSSTVALHCVVDELVRFRKVRQYALAT  
 PGATGEARKQQLQERQPLLEACDALRQDLMTGHNKDRGHAASWELLDPRTKHQKPGT

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001177684

**ORF Size:** 1650 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\\_001177684.1](#), [NP\\_001171155.1](#)
**RefSeq Size:** 1829 bp

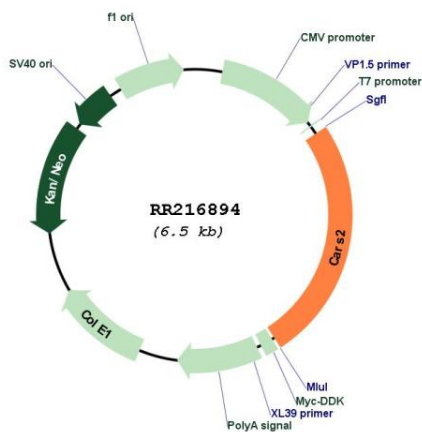
**RefSeq ORF:** 1653 bp

**Locus ID:** 361184

**Cytogenetics:** 16q12.5

MW: 60.9 kDa

Product images:



Circular map for RR216894