

## Product datasheet for **MR216919**

### **Cars2 (NM\_024248) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cars2 (NM_024248) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cars2
Synonyms:	2310051N18Rik; 2410044A07Rik; D530030H10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR216919 representing NM\_024248  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCGGGCGCGGGCCTGGGCCGCGCTCTGCTGCTCCGGGCCGCGCTGGGTCTCGGGCGGCGG  
 GCGGTCATGGCAACGGCCGCAAGGCCAGGACACCGCGTGCAGGTGCATAACAGCCTCACTGGCAGGAA  
 GGAGCCGCTGATAGTGGCCCGCTCGGACGAGTCTCCTGGTATAGCTGTGACCGACTGTGTACGACCAT  
 GCACATCTGGCCATGCTTGCTCTATGTTAGATTTGACATTATCCGGAGGATCCTGACCAGAGTGTGTTG  
 GATGCAATGTGGTCATGGCGATGAGCATTACCGACGTGGATGACAAAATAATCAAGAGAGCTAACGAGAT  
 GAACGTGACGCCCGCTTCTCGCCAGTCTTTTGGAGGAAGAATTTAAACAAGACATGGCAGCCCTGAAG  
 GTTCTGCCGCAACTGTGATTTGAGAGTCACTGAGAATCCCTCAGATCATTGCTTTCATCGAGGGCA  
 TCATTGCTCACGCCATGCATACTCGACAGCTACAGGCAGCGTCTACTTCGATCTGCACGCCCGAGGGGA  
 CAAGTATGGCAAGCTGGTCAACACGGTCCAGTCCACTGCAGAGCCAGCAGGTGACTCTGACAAGCGG  
 CACAGCAGCGACTTCGCCCTGTGGAAGGCAGCCAAACCTCAGGAGGTGTTCTGGGCTTCGCCGTGGGGAG  
 ACGGACGGCTGGATGGCACATCGAGTGTCTACCATGGCCAGTGAAGTGTTCGGAAGCCACCTGGACAT  
 CCACACGGCGGCATAGACTTGGCTTCCACATCACGAAAATGAAATCGCGCAGAGTGAAGTCTCCAC  
 CAGTGTGACAGTGGGAAATTACTTCTACATTTGGTCATTTGCATGTGAAAGGCACAGAAGAAAAGA  
 TGTCCAAATCCATAAAAACTATACCACTAAGGACTTCTGAAGACCTTCTCCCTGACGTCTTCCG  
 GCTTTTCTGCTTGGTACCAACTATAGGTCAGCCATTGAATACAGTGACAGTACCTTGGTGAAGCCAAG  
 CACCTCTGCTGGGGCTGGCCTCTTTTGGGAGGATGCACGAGCCTACGTAAGGGGCAGCTGACCTGTG  
 GCCCTGTTGAGGAGGATGTGCTATGGGAGAGGCTGACTAGCACAAGAAGGCGGTGAAAGCTGCTTAGC  
 CAATGACTTTGACACACCGAGGGCAGTGAACACCATCCTGGACCTTGTGCACCATGCAAACAGACAGCTC  
 AGGGCGGTCTCCAAGGAAGCTAGTGGCCCAAGGAGTCCCCTGTGTTTGGGGCCATCATTTCTACGTTG  
 AGCAGTTTTTCGAGACTGTTGGGATTTCTGCGCAAATCGACAGTGTGTTTCAGGAGACAGCAGCACAGT  
 AACGTTGCGCTGTGTTAGATGAACTCGTGGCTTCCAGGCTGAAGGTCGCCAGTATGCACTGGACACA  
 CCCGGGGTCTGGGGAGGCTCGGAAACGGCAGCTCCAGGAAAGGCAGCCCTTCTGGAGGCATGTGACA  
 CACTCCGACAGGACCTCGTCACCCATGGCATCAATGTTAAGGACAGAGGCAGTGCAGCCTCCACATGGGA  
 ACTGCTGGATCCAAGGACAAGACACCAGAAACCTGGGGACCGAGGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216919 representing NM\_024248  
 Red=Cloning site Green=Tags(s)

MLRARGPGPGALLLRAALGLGRRGRSWQRPQGQDTGVQVHNSLTGRKEPLIVARSDAVSWYSCGPTVYDH  
 AHLGHACSYVRFDIIRRILTRVFGCNVVMAMSI TDVDDKIIKRANEMNVPASLASLFEFEFKQDMAALK  
 VLPPTVYLRVTENIPQIIAFIEGIIAHGHAYSTATGSVYFDLHARGDKYKLVNTVPSATAEPAGDSDKR  
 HSSDFALWKAAPQEVFWASPWGDGRPGWHIECSTMASEVFGSHLDIHTGGIDLAFPHHENEIAQSEVFH  
 QCQWGNFYFLHSGHLHVKGTEEKMSKSLKNYITIKDFLKTSPDVFRFLCLRTNYRSAIEYSDSTLVEAK  
 HLLLGLASFVEDARAYVKQLTCGPVEEDVLWERLTSTKKAVKAALANDFDTPRAVNTILDLVHHANRQL  
 RAVSKEASGPRSPVFGAIIISYVEQFFETVGISLANRQCVS GDSSTVTLRCVVDELVRFRKVRQYALDT  
 PGAAGEARKRQLQERQPLLEACDTRLRQDLVTHGINVKDRGSAASTWELLDPRTRHQKPGDRG

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

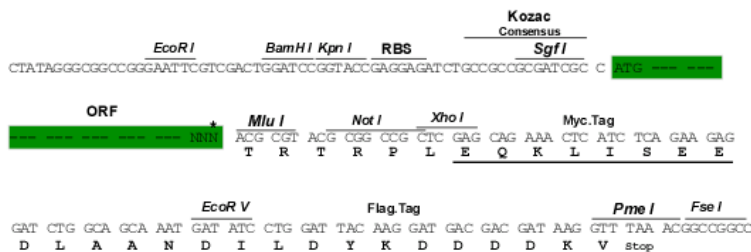
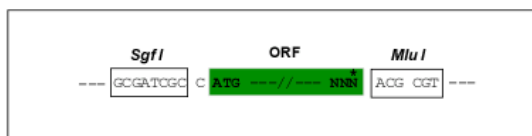
[https://cdn.origene.com/chromatograms/mm9090\\_e11.zip](https://cdn.origene.com/chromatograms/mm9090_e11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_024248

**ORF Size:** 1656 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\\_024248.1](#), [NP\\_077210.1](#)
**RefSeq Size:** 1867 bp

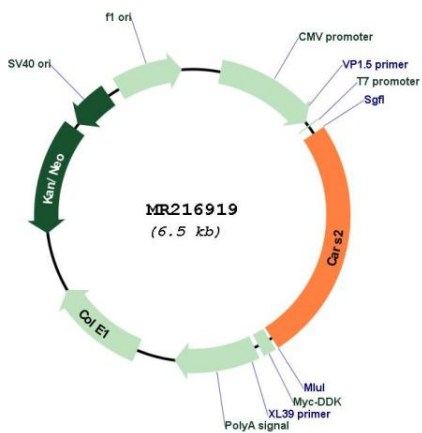
**RefSeq ORF:** 1659 bp

**Locus ID:** 71941

**UniProt ID:** [Q8BYM8](#)

Cytogenetics: 8 A1.1  
 MW: 61.3 kDa

**Product images:**



Circular map for MR216919