

Product datasheet for **MG216919**

Cars2 (NM_024248) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cars2 (NM_024248) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cars2
Synonyms:	2310051N18Rik; 2410044A07Rik; D530030H10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216919 representing NM_024248
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCGGGCGCGGGCCTGGGCCCGCGCTCTGCTGCTCCGGGCCGCGCTGGGTCTCGGGCGGCGG
 GCGGTCATGGCAACGGCCGCAAGGCCAGGACACCGCGTGCAGGTGCATAACAGCCTCACTGGCAGGAA
 GGAGCCGCTGATAGTGGCCCGCTCGGACGAGTCTCCTGGTATAGCTGTGACCGACTGTGTACGACCAT
 GCACATCTTGGCCATGCTTGCTCTATGTTAGATTTGACATTATCCGGAGGATCCTGACCAGAGTGTGTTG
 GATGCAATGTGGTCATGGCGATGAGCATTACCGACGTGGATGACAAAATAATCAAGAGAGCTAACGAGAT
 GAACGTGACGCCCGCTTCTCGCCAGTCTTTTGGAGGAAGAATTTAAACAAGACATGGCAGCCCTGAAG
 GTTCTGCCGCAACTGTGATTTGAGAGTCACTGAGAATCCCTCAGATCATTGCTTTCATCGAGGGCA
 TCATTGCTCACGCCATGCATACTCGACAGCTACAGGCAGCGTCTACTTCGATCTGCACGCCCGAGGGGA
 CAAGTATGGCAAGCTGGTCAACACGGTCCAGTCCACTGCAGAGCCAGCAGGTACTCTGACAAGCGG
 CACAGCAGCGACTTCGCCCTGTGGAAGGCAGCCAAACCTCAGGAGGTGTTCTGGGCTTCGCCGTGGGGAG
 ACGGACGGCTGGATGGCACATCGAGTGTCTACCATGGCCAGTGAAGTGTTCGGGAGCCACCTGGACAT
 CCACACGGCGGCATAGACTTGGCTTCCACATCACGAAAATGAAATCGCGCAGAGTGAAGTCTCCAC
 CAGTGTGACGAGTGGGAAATTACTTCTACATTTGTCATTTGCATGTGAAAGGCACAGAAGAAAAGA
 TGTCCAAATCCCTAAAAAATATACCACTAAGGACTTCTGAAGACCTTCTCCCTGACGCTTCCG
 GCTTTTCTGCTTGGTACCAACTATAGGTCAGCCATTGAATACAGTGACAGTACCTTGGTGAAGCCAAG
 CACCTCTGCTGGGGCTGGCCTCTTTTGGAGGATGCACGAGCCTACGTAAGGGGCAGCTGACCTGTG
 GCCCTGTTGAGGAGGATGTGCTATGGGAGAGGCTGACTAGCACAAGAAGCGGTGAAAGCTGCTAGC
 CAATGACTTTGACACACCGAGGGCAGTGAACACCATCCTGGACCTTGTGCACCATGCAAACAGACAGCTC
 AGGGCGGTCTCCAAGGAAGCTAGTGGCCCAAGGAGTCCCACTGTGTTTGGGGCCATCATTTCTACGTTG
 AGCAGTTTTTCGAGACTGTTGGGATTTCTCTGGCAAATCGACAGTGTGTTTCAGGAGACAGCAGCACAGT
 AACGTTGCGCTGTGTTAGATGAACTCGTGGCTTCCAGGCTGAAGGTCGCCAGTATGCACTGGACACA
 CCCGGGGCTGCTGGGAGGCTCGGAAACGGCAGCTCCAGGAAAGGCAGCCCTTCTGGAGGCATGTGACA
 CACTCCGACAGGACCTCGTCACCCATGGCATCAATGTTAAGGACAGAGGCAGTGCAGCCTCCACATGGGA
 ACTGCTGGATCCAAGGACAAGACACCAGAAACCTGGGGACCGAGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216919 representing NM_024248
 Red=Cloning site Green=Tags(s)

MLRARGPGPGALLLRAALGLGRRGRSWQRPQGQDTGVQVHNSLTGRKEPLIVARSDAVSWYSCGPTVYDH
 AHLGHACSYVRFDIIRRLTRVFGCNVVMAMSIDVDDKIIKRANEMNVTPASLASLFEFEFKQDMAALK
 VLPPTVYLRVTENIPQIIAFIEGIIAHGHAYSTATGSVYFDLHARGDKYKLVNTPSATAEPAGDSDKR
 HSSDFALWKAAPQEVFWASPWDGRPGWHIECSTMASEVFGSHLDIHTGGIDLAFPHHENEIAQSEVFH
 QCQQWGNVFLHSGHLHVKGTEEKMSKSLKNYITIKDFLTFSPDVFRFLCLRTNYRSAIEYSDSTLVEAK
 HLLLGLASFVEDARAYVKGQLTCGPVEEDVLWERLTSTKKAVKAALANDFDTPRAVNTILDLVHHANRQL
 RAVSKEASGPRSPVFGAIIISYVEQFFETVGISLANRQCVSGDSSTVTLRCVVDELVRFRKVRQYALDT
 PGAAGEARKRQLQERQPLLEACDTLRQDLVTHGINVKDRGSAASTWELLDPRTRHQKPGDRG

TRTRPLE - GFP Tag - V

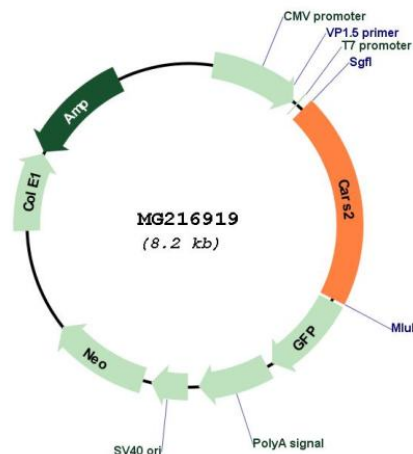
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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