

Product datasheet for **MR231053**

Cars (NM_001252593) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cars (NM_001252593) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cars
Synonyms:	CA3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR231053 representing NM_001252593
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCAGGTTCTCCGCGGAGCAGGGTAAAGGCCGGCAGTGCAGCCTCAGTGGTCCCCCAGCAGGGA
CTGAGCCCTGCAGGCTCCGCCTCTATAATAGCCTCACCCGGAACAAGGATGTATTTATACCTCAAGATGG
GAAGAAGGTGACGTGGTACTGTTGCGGGCCGACTGTCTATGATGCGTCTCACATGGGACATGCCAGGTCC
TACATCTCCTTCGATATCCTGAGGAGGGTCTGAGGGATTACTTCCAGTATGATGTCTTTTACTGCATGA
ACATCACAGACATTGATGATAAGATCATCAGGCGGCACGGCAGAACTACCTGTTTGAGCAGTATCGGGA
GCAGAAACCCCGCCAGCCAGCTCCTGAAGGATGTCCGTGATGCCATGAAGCCATTTTCAGTCAAGTTA
AGTGAGACAACAGATCCCGACAAGAGGCAGATGCTGGAGCGGATCCAGAACTCTGTGAAACTTGCCACAG
AACCCTGGAACAGGCTGTGCGATCCAGCCTCTCTGGAGAGGAAGTAGACAGCAAAGTACAGGTGTTGCT
GGAGGAAGCAAAGGACTTCTCTGACTGGCTGGATTCCACAGGTGGCAGTGAGGTGACTGACAACCTCG
ATTTTCTCCAAACTGCCAAGTTCTGGGAAGAAGATTCCACAAAGACATGGAAGCCCTGAATGTTCTCC
CTCCTGATGTCCTAACCCGTGTCAGTGAATATGTGCCAGAAATTGTGAATTCGTCCAGAAGATTGTGGA
CAATGGTTATGGTTATGCTTCAAATGGATCTGTTTACTTCGACACAGCCAAGTTTGTGCTAGTGAAAAG
CACTCCTATGGGAAGCTGGTGCCTGAGGCCGTTGGGATCAGAAGGCACTTCAGGAAGGGGAAGGTGATC
TGAGCATCTCTGCTGACCGCCTTAGTGAGAAACGCTCTCCCAATGACTTTGCCTTGTTGGAAGGCCTCAA
GCCAGGCGAGCCATCCTGGCCTTGCCCTGGGAAAGGGTCGTCGCGGATGGCACATAGAGTGTCTGCT
ATGGCAGGCACGCTCCTGGGAGCCTCAATGGACATTCATGGTGGAGGGTTTGACCTCCGCTTCCCCCACC
GGGCCACTTGACGATAGCAGGCTGCAAGATGTCCAAGTCACTGAAAAACTTTATACCATTAAAGATGCC
TTGAAGAAGCACTCAGCACGGCAGCTGCGACTGGCATTCTCATGCACTCATGGAAGACACACTGGACT
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TCATGGAAGAGATGCGGGCTTTGGTCAGTCACTGCAACCTCTACATGGCAGCCAGGAAGGCTGAACGGAG
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TCATGCCCTACCTTCAGGTGTTATCAGAATTCAGAGAGGGAGTACGAAAGATTGCCCGAGAGAAAAAAGT
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GACCATGAAGGGCTGCCAACAGTGGTGAAGTTGGTGGACAGAGACACCTTACTGAAAAGAGAAGGAAGGAA
AGAAAAGGGCTGAAGAAGAGAAGAGGAGGAAGAAAGAGGAGGCGCCAGAAAGAAACAGGAGCAAGAAGC
AGCAAAGCTGGCCAAGATGAAGATACCACCCAGTGAAGTGTCTGTGAGAAAGTCAACAAGTATTCTAAA
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TGAAGAAGCTCTTTGAAGCCAGGAGAACTGTACAAGGAGTATCTGCAAATGTTACAGAATGGCAGCCT
CCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231053 representing NM_001252593
 Red=Cloning site Green=Tags(s)

MAGSSAEQGGKRRVQPQWSPAGTEPCRLRLYNLSLTRNKDVFIPQDGKKVTWYCCGPTVVDASHMGHARS
 YISFDILRRVLRDYFYQYDFVFCMNIIDIDDKIIRRARQNYLFEQYREQPPATQLLKDVRDAMKPFVSVKL
 SETTDPDKRQMLERIQNSVKLATEPLEQAVRSSLGEEVDSKVQVLLLEEAKDLLSDWLDSTGGSEVTDNS
 IFSKLPKFWEEEFHKDMEALNVLPPDVLTRVSEYVPEIVNFVQKIVDNGYGYASNGSVYFDATAKFAASEK
 HSYGKLVPEAVGDQKALQEGEGDLSISADRLSEKRSNDALWKASKPGEPSWPCPWGKGRPGWHIECSA
 MAGTLLGASMDIHGGGFDLRFPHHDNELAQSEAYFENDCWVRYFLHTGHLTIAGCKMSKSLKNFITIKDA
 LKKHSARQLRLAFLMHSWKDLDYSSNTMESALQYEFMNEFFLNVDILRAPVDITGQFEKWEAELEVEL
 NKNFYGKKTAVHEALCDNIDTRTVMEEMRALVSQC�LYMAARKAERRRPNRALLENIAMYLTHMLKIFGA
 IEEESPLGFPVGGPGTNLNLESTVMPYLQVLSEFREGVRKIAREKKVLEVLQLSDALRDDILPELVGRFE
 DHEGLPTVVKLVDRTLLKEKEGKKRAEEKRRKKEEAARKKQEQAALKAKMKIPPSEMFLSEVNKYSK
 FDENGLPTHDTGKELSKGQAKKLLKLEFAQEKLYKEYLQMLQNGSLQ

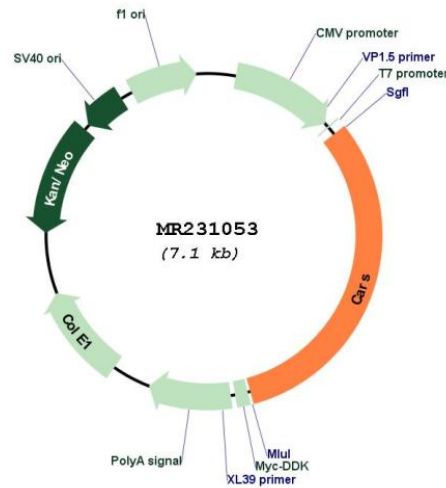
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001252593

ORF Size: 2244 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_001252593.1](#), [NP_001239522.1](#)

RefSeq Size: 2987 bp

RefSeq ORF: 2247 bp

Locus ID: 27267

UniProt ID: [Q9ER72](#)
Cytogenetics: 7 88.25 cM
MW: 86 kDa
Gene Summary: Catalyzes the ATP-dependent ligation of cysteine to tRNA(Cys).[UniProtKB/Swiss-Prot Function]