

## Product datasheet for **MC228842**

### Cars (NM\_001252593) Mouse Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >MC228842 representing NM\_001252593  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGGTTCTCCGCGGAGCAGGGTAAAGGCCGGCAGTGCAGCCTCAGTGGTCCCCCAGCAGGGA  
 CTGAGCCCTGCAGGCTCCGCCTCTATAATAGCCTCACCCGGAACAAGGATGTATTTATACCTCAAGATGG  
 GAAGAAGGTGACGTGGTACTGTTGCGGGCCGACTGTCTATGATGCGTCTCACATGGGACATGCCAGGTCC  
 TACATCTCCTTCGATATCCTGAGGAGGGTCTGAGGGTACTTCCAGTATGATGTCTTTTACTGCATGA  
 ACATCACAGACATTGATGATAAGATCATCAGGCGGCACGGCAGAACTACCTGTTTGAGCAGTATCGGGA  
 GCAGAAACCCCGCCAGCCAGCTCCTGAAGGATGTCCGTGATGCCATGAAGCCATTTTCAGTCAAGTTA  
 AGTGAGACAACAGATCCCGACAAGAGGCAGATGCTGGAGCGGATCCAGAACTCTGTGAAACTTGCCACAG  
 AACCACTGGAACAGGCTGTGCGATCCAGCCTCTCTGGAGAGGAAGTAGACAGCAAAGTACAGGTGTTGCT  
 GGAGGAAGCAAAGGACTTCTCTGACTGGCTGGATTCCACAGGTGGCAGTGAGGTGACTGACAACCTCG  
 ATTTTCTCCAAACTGCCAAGTTCTGGGAAGAAGATTCCACAAAAGACATGGAAGCCCTGAATGTTCTCC  
 CTCTGATGTCCTAACCCGTGTCAGTGAATATGTGCCAGAAATTGTGAATTCGTCCAGAAGATTGTGGA  
 CAATGGTTATGGTTATGCTTCAAATGGATCTGTTTACTTCGCACACAGCCAAGTTTGTGCTAGTGA AAAAG  
 CACTCCTATGGGAAGCTGGTGCCTGAGGCCGTTGGGATCAGAAGGCACTTCAGGAAGGGGAAGGTGATC  
 TGAGCATCTCTGCTGACCGCCTTAGTGAGAAACGCTCTCCCAATGACTTTGCCTTGTTGGAAGGCCTCAA  
 GCCAGGCGAGCCATCTGGCCTTGCCCTGGGAAAGGGTCGTCGCGGATGGCACATAGAGTGTCTGCT  
 ATGGCAGGCACGCTCCTGGGAGCCTCAATGGACATTCATGGTGGAGGGTTTGACCTCCGCTTCCCCCACC  
 ATGACAATGAGCTGGCACAGTCGGAGGCCACTTTGAAAATGACTGCTGGGTCAAGTACTTCTTGCACAC  
 GGGCCACTTGACGATAGCAGGCTGCAAGATGTCCAAGTCACTGAAAAACTTTATACCATTAAAGATGCC  
 TTGAAGAAGCACTCAGCACGGCAGCTGCGACTGGCATTCTCATGCACTCATGAAAAGACACACTGGACT  
 ATTCCAGCAACTATGGAGTCTGCTCTTCAGTATGAAAATTCATGAACGAGTTTTTCTTAAATGTGAA  
 AGACATCTCCGAGCCCCTGTAGACATCACTGGCCAGTTTGAAGAGTGGGAAGCTGAAGAAGTGGAGCTA  
 AATAAGAAGTCTATGGCAAGAAGACCGCAGTTCACGAAGCCTTGTGTGATAACATTGACACCCGGACTG  
 TCATGGAAGAGATGCGGGCTTTGGTCAGTCAAGTCAACCTCTACATGGCAGCCAGGAAGGCTGAACGGAG  
 GAGGCCAACCGGCTCTGCTGGAGAACATTGCCATGTACCTCACCCACATGCTGAAGATCTTTGGGGCC  
 ATAGAGGAGGAGAGCCCCCTGGGTTCCAGTTGGTGGGCTGGAACCACTGAACCTCGAGTCAACAG  
 TCATGCCCTACCTCAGGTGTTATCAGAATTCAGAGAGGGAGTACGAAAGATTGCCCGAGAGAAAAAAGT  
 TCTTGAGGTTCTACAGCTCAGTATGCCCTCCGGGATGACATCTGCCTGAGCTTGGGGTCCGGTTTGAA  
 GACCATGAAGGGCTGCCAACAGTGGTGAAGTTGGTGGACAGAGACACCTTACTGAAAAGAGAAGGAAGGAA  
 AGAAAAGGGCTGAAGAAGAGAAGAGGAGGAAGAAAGAGGAGGCGGCCAGAAAGAAACAGGAGCAAGAAGC  
 AGCAAAGCTGGCCAAGATGAAGTACCACCCAGTGAAGTGTCTGTGAGAAAGTCAACAAGTATTCTAAA  
 TTTGATGAAAATGGTCTGCCTACCCACGACACCGAAGGCAAGAGCTGAGCAAGGGCCAGGCCAAGAAGC  
 TGAAGAAGCTCTTTGAAGCCAGGAGAACTGTACAAGGAGTATCTGCAAATGTTACAGAATGGCAGCCT  
 CCAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001252593  
**Insert Size:** 2247 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u>NM_001252593.1, NP_001239522.1</u>
<b>RefSeq Size:</b>	2987 bp
<b>RefSeq ORF:</b>	2247 bp
<b>Locus ID:</b>	27267
<b>UniProt ID:</b>	<u>Q9ER72</u>
<b>Cytogenetics:</b>	7 88.25 cM
<b>Gene Summary:</b>	<p>Catalyzes the ATP-dependent ligation of cysteine to tRNA(Cys).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate, in-frame, exon in the 5' coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.</p>