

## Product datasheet for MC211740

### Car12 (NM\_178396) Mouse Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Car12 (NM_178396) Mouse Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | Car12   |
| Synonyms:                 | 2310047E01Rik; AI314958; CA-XII; Ca12   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| Fully Sequenced ORF:      | >MC211740 representing NM_178396<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGCCTCACCGCAGCCTGCGCGGACTGTCGTCTCTGTTGGTGATCCTTAAGAAGCAGCCTTCCAGCT  
CAGCCCCACTCAACGGATCCAAGTGGACCTATGTTGGTCTGCTGGGAAAAGAACTGGTCCAAGAAGTA  
CCCATCGTGTGGAGGCCCTCTGCAGTCCCCGATAGACCTACATAGCGACATCCTTCAGTATGATGCTAGC  
CTCGCACCCCTCCAGTTCCAAGTTACAATGTGTCTGTTGAAAAGCTGTTGAACCTGACCAATGATGGCC  
ATTCAGTGAGACTGAATCTGAACCTCAGACATGTACATCCAGGGTCTCCAGCCTCACCACTACAGAGCAGA  
GCAGCTGCACTTGCACTGGGGGAACCGCAATGACCCCCATGGCTCTGAACACACCGTGAGTGGGAAGCAC  
TTTGCTGCCGAGCTGCACATTGTCCATTATAACTCAGACCTGTACCCTGACTTCAGCACCCGCCAGTGACA  
AGTCCGAAGGCCTCGCTGTCTTGTCTTATTGAGATAGGCTCCGCCAATCCATCATATGACAAGAT  
CTTCAGCCATCTTCAACATGTTAAGTATAAAGGCCAACAAGTGCTCATCCAGGCTTCAACATTGAAGAA  
CTTCTGCCGAGAGCCCTGGCGAGTATTACCGCTATGAAGGTCCTGACTACACCTCCTTGCTACCCTA  
CCGTGCTCTGGACAGTTTTCCGAAACCCTGTGCAGATTTCCAGGAGCAGCTGCTGGCTTTGGAGACAGC  
TCTGTACTTCACACACATGGATGATCCTACCCCGAGAGAAATGATCAACAACCTCCGGCAGGTCCAGAAG  
TTCGATGAGAGGCTGGTGTATCTCCTCCGACAAGGACTGCTTACCAACACAGGACTGAGTTTGGGTA  
TCATCCTTTCACTGGCCCTGGCTGGCGTTCTTGGCATCTCCATTGTTCTGGCAGTGTCTATTGGCTCTT  
CAAAAGGAAGAAGAGCAAAAAGGTGACAACAAGGGAGTCATTTATAACCAGCCATCAAGAAGGAGGCT  
GAGGTCCACGCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja2317\\_g06.zip](https://cdn.origene.com/chromatograms/ja2317_g06.zip)



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|                               |  |
|-------------------------------|--|
| <b>Restriction Sites:</b>     | Sgfl-MluI  |
| <b>ACCN:</b>                  | NM_178396  |
| <b>Insert Size:</b>           | 1065 bp  |
| <b>OTI Disclaimer:</b>        | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.   |
| <b>RefSeq:</b>                | <a href="#">BC035941</a> , <a href="#">AAH35941</a>  |
| <b>RefSeq Size:</b>           | 3716 bp  |
| <b>RefSeq ORF:</b>            | 1065 bp  |
| <b>Locus ID:</b>              | 76459  |
| <b>UniProt ID:</b>            | <a href="#">Q8CI85</a>   |
| <b>Cytogenetics:</b>          | 9 C  |

**Gene Summary:**

This gene encodes a membrane-bound member of the alpha carbonic anhydrase family of enzymes that catalyze the reversible hydration of carbon dioxide to bicarbonate. These proteins participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. Alternative splicing results in multiple transcript variants.

[provided by RefSeq, Apr 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.