

Product datasheet for **MG205383**

Car12 (NM_178396) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Car12 (NM_178396) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Car12
Synonyms: 2310047E01Rik; AI314958; CA-XII; Ca12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205383 representing NM_178396
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCACCGCAGCCTGCGCGGACTGTCGTCTCTGTTGGTGATCCTTAAGAAGCAGCCTTCCAGCT
CAGCCCCACTCAACGGATCCAAGTGGACCTATGTTGGTCTGCTGGGAAAAGAAGTGGTCCAAGAAGTA
CCCATCGTGTGGAGGCCCTCTGCAGTCCCCGATAGACCTACATAGCGACATCCTTCAGTATGATGCTAGC
CTTGACCCCTCCAGTTCCAAGTTACAACGTGTCTGTTGAAAAGCTGTTGAACCTGACCAATGATGGCC
ATTCAGTGAGACTGAATCTGAACCTCAGACATGTACATCCAGGGTCTCCAGCCTCACCACTACAGAGCAGA
GCAGCTGCACTTGCACTGGGGAAACCGCAATGACCCCATGGCTCTGAACACACCGTGAGTGGGAAGCAC
TTTGCTGCCGAGCTGCACATTGTCCATTATAACTCAGACCTGTACCCTGACTTCAGCACCCGCGAGTGACA
AGTCCGAAGGCCTCGCTGTCTTGTCTTATTGAGATAGGCTCCGCCAATCCGTCATATGACAAGAT
CTTCAGCCATCTCAACATGTTAAGTATAAAGGCCAACAGGTGCTCATCCAGGCTTCAACATTGAAGAA
CTTCTGCCGAGAGCCCTGGCGAATATTACCGCTACGAAGGGTCCCTGACTACACCTCCTTGCTACCCTA
CCGTGCTCTGGACAGTTTTCCGAAACCCTGTGCAGATTTCCAGGAGCAGCTGCTGGCTTTGGAGACAGC
TCTGTACTTCACACACATGGATGATCCTACCCCAAGAGAAATGATCAACAACCTCCGGCAGGTCCAGAAG
TTCGATGAGAGGCTGGTGTATATCTCCTCCGACAAGGACTGCTTACCGACACAGGACTGAGTTTGGGTA
TCATCCTTTCAGTGGCCCTGGCTGGCGTCTTGGCATCTCCATTGTTCTGGCAGTGTCTATTTGGCTCTT
CAAAAGGAAGAAGAGCAAAAAGGTGACAACAAGGGAGTCATTTATAACCAGCCATCAAGAAGGAGGCT
GAGGTCCACGCC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205383 representing NM_178396
 Red=Cloning site Green=Tags(s)

MPHRSLRATVLLLLVILKKQPSSAPLNGSKWTVVGPAGEKNWSKKYPSCGGLLQSPIDLHSDILQYDAS
 LAPLQFQGYNVSVEKLLNLNDGHSVRLNLNSDMYIQGLQPHHYRAEQLHLHWGNRNDPHGSEHTVSGKH
 FAAELHIVHYNLDLYPDFSTASDKSEGLAVLAVLIEIGSANPSYDKIFSHLQHVYKKGQQLVLPGFNIEE
 LLPESPGEYYRYEGSLTPPCYPTVLWTVFRNPVQISQEQLLALETALYFTHMDDPTPREMINNFRQVQK
 FDERLVYISFRQGLLTDGLSLGIILSVALAGVLGISIVLAVSIWLFKRKSKKGDNKGVIYKPAIKKEA
 EVHA

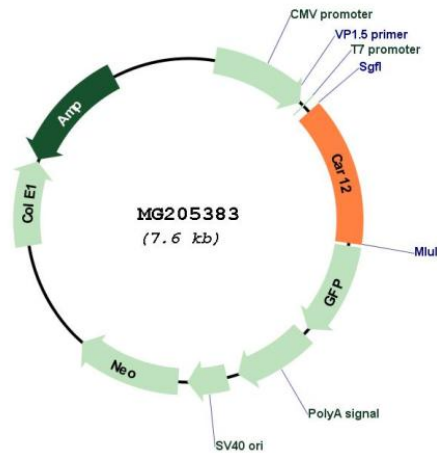
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178396

ORF Size:	1062 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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_178396.3 , NP_848483.2
RefSeq Size:	3674 bp
RefSeq ORF:	1065 bp
Locus ID:	76459
UniProt ID:	Q8CI85
Cytogenetics:	9 C
Gene Summary:	<p>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]</p>