

## Product datasheet for **MG203372**

### Car2 (NM\_009801) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Car2 (NM\_009801) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Car2  
**Synonyms:** A1131712; Ca2; CAl1; Car-2; Ltw-5; Lvtw-5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG203372 representing NM\_009801  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCCACCACTGGGGATACAGCAAGCACAACGGACCAGAGAACTGGCACAAGGACTTCCCATTGCCA  
ATGGAGACCGGCAGTCCCCTGTGGATATTGACACAGCAACTGCCACCATGACCCTGCCCTACAGCCTCT  
GCTCATATCTTATGATAAAGCTGCGTCCAAGAGCATTGTCAACAACGGCCACTCCTTTAACGTTGAGTTT  
GATGACTCTCAGGACAATGCAGTCTGAAAGGAGGACCCCTCAGTACTCCTACAGATTGATCCAGTTTC  
ACTTTCACTGGGGCTCATCTGATGGCCAGGGCTCTGAGCACACTGTGAACAAAAAATATGCTGCAGA  
GCTTCACTTGGTTCACTGGAACACCAAATATGGGGACTTTGGAAAAGCTGTGCAGCAACCGGATGGATTG  
GCTGTTTTGGGTATTTTTTTGAAGATTGGACCTGCCTACAAGGCCTTCAGAAAGTCCTTGAAGCACTGC  
ATTCCATTAACAAGGGGAAGCGTGCAGGCTTTGCTAACTTCGATCCTTGCTCCCTTCTTCTGGAAA  
CTTGGACTACTGGACATACCCTGGCTCTCTGACCACTCCGCTCTGCTGGAATGTGTGACCTGGATCGTG  
CTCAGGGAGCCATTACTGTGAGCAGCGAGCAGATGTCTCATTTCCGTACGCTGAAGTCAATGAGGAGG  
GGGATGCTGAAGAAGCGATGGTGGACAACCTGGCGTCCAGCTCAGCCGCTAAAGAATAGAAAGATCAAAGC  
GTCCTTAAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203372 representing NM\_009801  
 Red=Cloning site Green=Tags(s)

MSHHWGYSKHNGPENWHKDFPIANGDRQSPVDIDTATAHHPALQPLLISYDKAASKSIVNNGHSFNVEF  
 DDSQDNAVLKGGPLSDSYRLIQHFHWGSSDGGQSEHTVNKKKYAAELHLVHWNTKYGDFGKAVQQPDGL  
 AVLGIPLKIGPASQGLQKVLKLEALHSIKTKGKRAAFANFDPCSLPLGNLDYWTYPGSLTTPPLLECVTWIV  
 LREPITVSSEQMSHFRTLNFNEEGDAEEAMVDNWRPAQPLKNRRIKASFK

TRTRPLE - GFP Tag - V

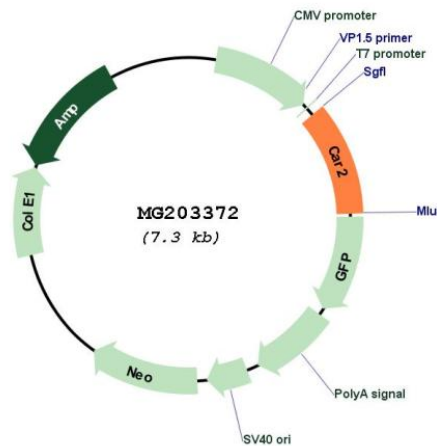
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_009801

**ORF Size:** 780 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_009801.3</a> , <a href="#">NP_033931.3</a>
<b>RefSeq Size:</b>	1490 bp
<b>RefSeq ORF:</b>	783 bp
<b>Locus ID:</b>	12349
<b>UniProt ID:</b>	<a href="#">P00920</a>
<b>Cytogenetics:</b>	3 3.23 cM
<b>Gene Summary:</b>	Essential for bone resorption and osteoclast differentiation. Reversible hydration of carbon dioxide. Contributes to intracellular pH regulation in the duodenal upper villous epithelium during proton-coupled peptide absorption. Stimulates the chloride-bicarbonate exchange activity of SLC26A6.[UniProtKB/Swiss-Prot Function]