

## Product datasheet for **MG204282**

### Car4 (NM\_007607) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Car4 (NM\_007607) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Car4  
**Synonyms:** AW456718; Ca4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204282 representing NM\_007607  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGCTCCTTCTTGCTCTGCTGGCGCTGGCATACTGGCCCCCTACTGAAGACTCAGGCTGGTGCT  
ATGAGATTCAAACCAAGGATCCTAGAAGCAGTTGCTTGGGGCCTGAGAAGTGGCCTGGAGCCTGTAAGGA  
GAATCAGCAGTCCCCATCAACATTGTCAGTCTAGGACAAAGGTGAACCCAGACTGACACCCTTCATC  
CTCGTCGGCTATGACAAAAGCAACAGTGGCCAATTAAGAACAATCAACACACAGTGGAGATGACGCTGG  
GGGAGGTGCGTGCAATTATCGGAGGAGACTGCCCGCCCGTACGAGGCTGTACAGTTGCACCTGCACTG  
GTCAAATGGGAATGACAACGGTTTCAGAGCACAGTATTGATGGGAGACACTTTGCCATGGAGATGCACATC  
GTGCACAAGAAGTTGACATCTAGCAAGGAGACTCGAAGGACAAGTTTGCAGTGTGGCATTATGATTG  
AGGTAGGAGACAAGGTGAACAAGGGCTTCAGCCCTGGTGAAGCACTGCCAGTATCTCCAAACCCCA  
TTCAACCTCTACAGTGAAGGAGAGCAGTTTGCAGGACATGCTTCCCCGAGCACCACAAAATGTATACCTAC  
TCCGTTACAATGGTCACTAACCACACCAAATGTGATGAGACTGTGATCTGGACTGTGTACAAACAAC  
CCATCAAGATCCACAAAACAGTTCTTGAATCTCAAAAAATCTGACTATGACGAAGATCAGAAGTT  
GAACATGAAGGACAATGTGAGGCCCTGCAGCCGCTGGGAAAACGCCAGGTGTTCAAGTCCCATGCCCA  
GGACAGCTGCTGTCTTTGCCCTGCCACTCTGTTGGTCCCACACTCACCTGCCTGGTAGCCAATTCC  
TCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204282 representing NM\_007607  
Red=Cloning site Green=Tags(s)

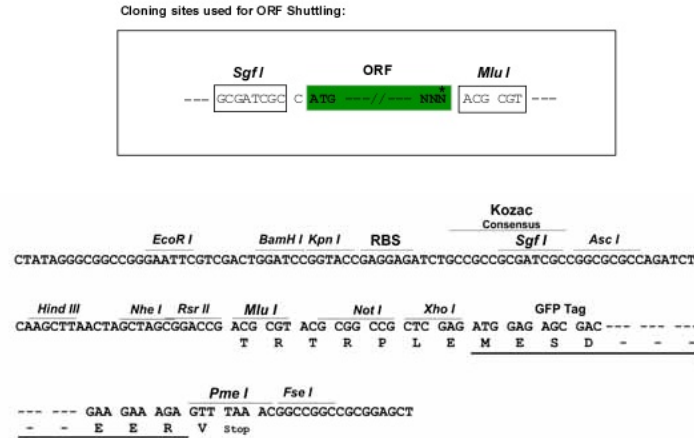
MQLLLALLALAYVAPSTEDSGWCYEIQTKDPRSSCLGPEKWPGACKENQQSPINIVTARTKVNPRLLTPFI  
 LVGYDQKQWPVKNNQHTVEMTLGGGACIIGDLPARYEAVQLHLHWSNGNDNGSEHSIDGRHFAMEMHI  
 VHKKLTSSKEDSKDKFAVLAFMIEVGDKNKGFQPLVEALPSISKPHSTSTVRESSLQDMLPPSTKMYTY  
 FRYNGSLTTPNCDETVIWTVYKQPIKIHKNQFLEF SKNLYYDEDQKLNMKDNVRPLQPLGKRQVFKSHAP  
 GQLLSLPLPTLLVPTLTCLVANFLQ

TRTRPLE - GFP Tag - V

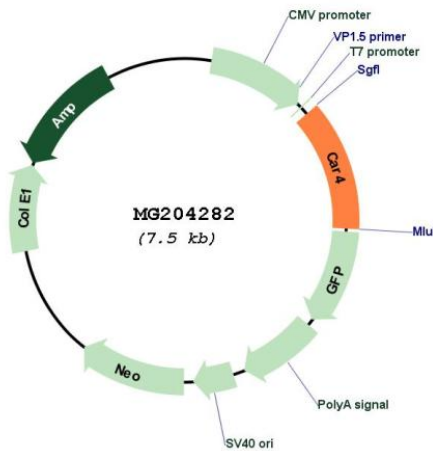
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_007607

**ORF Size:** 915 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_007607.2</a>
<b>RefSeq Size:</b>	1201 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	12351
<b>UniProt ID:</b>	<a href="#">Q64444</a>
<b>Cytogenetics:</b>	11 C
<b>Gene Summary:</b>	Reversible hydration of carbon dioxide. May stimulate the sodium/bicarbonate transporter activity of SLC4A4 (By similarity).[UniProtKB/Swiss-Prot Function]