

Product datasheet for MR216910

Car1 (NM_001083957) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Car1 (NM_001083957) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Car1
Synonyms:	AW555628; Ca1; Car-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216910 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAAGTGCAGACTGGGGATATGGAAGCGAAAATGGTCCTGACCAATGGAGCAAGCTGTATCCCATTG
CCAATGGAACAACCACTCTCTATTGATATTAACCAGTGAAGCAATCATGACTCCTCTCTGAAACC
ACTCAGCATCTCTATAATCCTGCAACTGCCAAAGAAATTGTTAACGTGGGACATTCTTTCCATGTAATT
TTTGATGACAGTAGCAACCAATCTGTTCTGAAAGGTGGCCCTCTTGCTGATAGCTATCGGCTCACTCAGT
TCCATTTTCACTGGGCAACTCAAACGACCATGGCTCTGAGCACACCGTGGATGGAAGTACTGATATTTCTGG
AGAGCTTCACTTAGTTCAGTCTGAAATTCGAAAGTACTCCAGTGTCTGAAAGCCATCTCCAAGGCTGAT
GGCCTGGCAATCCTTGCGTTTTGATGAAGTTGGTCCAGCCAACCAAGCCTGCAGAAAGTACTTGATG
CTCTAAACTCAGTAAAATAAGGGAAAACGAGCCCCATTACAAATTTTGACCCATCCAGTCTGCTTCC
TTCATCTCTGGATTACTGGACCTACTTTGGCTCTGACTCACCTCCTCTTCAATGAAAGTGTGACCTGG
GTGATCTGCAAGGATAGCATCAGTCTAAGCCCAGAGCAGCTGGCCAGCTCCGTGGTCTTCTGTCAAGTG
CAGAGGGAGAGCCTGCAGTTCAGTCTGAGCAACCACCGTCCACCCCAACCCCTGAAGGGCAGAACAGT
CAGAGCCTCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216910 protein sequence
 Red=Cloning site Green=Tags(s)

MASADWGYGSENGPDQWSKLYPIANGNNQSPIDIKTSEANHDSSLKPLSISYNPATAKEIVNVGHSFHVI
 FDDSSNQSVLKGGLADSYRLTQFHFWGNSNDHGSEHTVDGTRYSGELHLVHNSAKYSSASEAISKAD
 GLAILGVLMKVGPANPSLQKVLDALNSVKTGKRAPFTNFDPSLLPSSLDYWTYFGSLTHPPLHESVTW
 VICKDSISLSPEQLAQLRGLLSSAEGEPAVPVLSNHRPPQPLKGRTRVRSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001083957

ORF Size: 786 bp

OTI Disclaimer: 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](#)

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:

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_001083957.1](#), [NP_001077426.1](#)

RefSeq Size: 1184 bp

RefSeq ORF: 786 bp

Locus ID: 12346

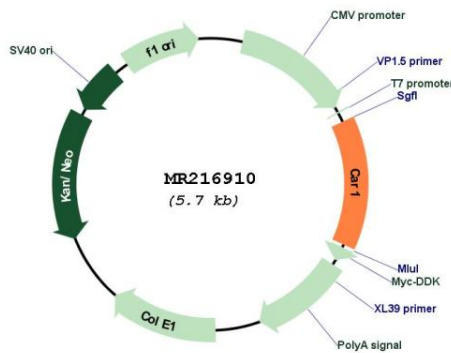
UniProt ID: [P13634](#)

Cytogenetics: 3 3.18 cM

MW: 28.3 kDa

Gene Summary: Reversible hydration of carbon dioxide.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216910