

Product datasheet for **RR215603**

Car1 (NM_001107660) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Car1 (NM_001107660) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Car1
Synonyms: CA-I; Ca1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215603 representing NM_001107660
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAAGTGCAGACTGGGGATATGATAGCAAAAATGGTCTGACCAATGGAGCAAATATATCCCATTG
CCAATGGAAACAACCAGTCTCTATTGATATTAACCAGCGAAGCCAAACATGATTCCTCTCTGAAACC
AGTCAGCGTCTCCTACAATCCTGCAACTGCCAAAGAAATTGTTAATGTGGGACATTCTTTCCATGTAGTT
TTTGATGACAGTAGCAACCAGTCAGTGCTGAAAGGTGGCCCTCTTGTGTAGCTATCGGCTCACCCAGT
TCCATTTTCACTGGGGCAACTCAAACGACCATGGCTCTGAACACACCGTGGATGGAGCCAAATATTCTGG
AGAGCTTCACTTAGTTCACTGGAATTCAGCCAAGTACTCCAGTGCTGCTGAAGCCATCTCGAAGGCTGAT
GGGCTGGCAATCATTGGGGTTTTGATGAAGTTGGTCCAGCCAACCCAAACCTGCAGAAAGTACTGGATG
CCCTAAGCTCAGTTAAACTAAGGGAAAACGAGCCCCATTCACCAATTTGACCCCTCAGTCTCCTTCC
TTCGTCTCTGGATTACTGGACCTACTTTGGCTCTGACCCACCCTCCTTTCATGAAAGCGTGACTTGG
GTGATCTGCAAGGAGAGCATCAGTCTAAGCCCAGAACAGCTGGCACAGCTCCGTGGTCTTCTGTCAAGTG
CCGAGGGAGAGCCTGCGGTTCCAGTTCTGAGCAACCACCGTCCACCACAGCCCTGAAGGGCAGAACAGT
CAGAGCCTCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215603 representing NM_001107660
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MASADWGYDSKNGPDQWSKLYPIANGNNQSPIDIKTSEAKHDSSLKPVSVSNPATAKEIVNVGHSFHVV
 FDDSSNQSVLKGGLADSYRLTQFHFWGNSNDHGSEHTVDGAKYSGELHLVHWNSAKYSSAAEAISKAD
 GLAIIIGVLMKVG PANPNLQKVLDALSSVKTGKRAPFTNFDPSLLPSSLDYWTYFGSLTHPPLHESVTW
 VICKESISLSPEQLAQLRGLLSSAEGEPAVPVLSNHRPPQPLKGRTRVRSF

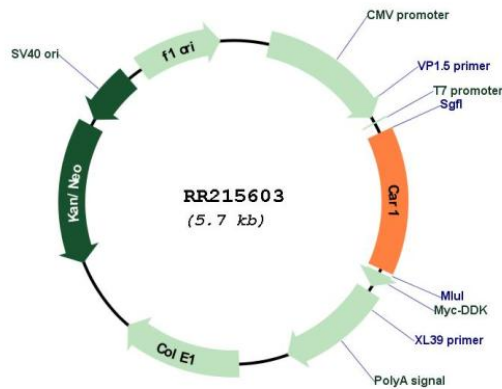
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001107660
ORF Size: 783 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:	<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_001107660.1 , NP_001101130.1
RefSeq Size:	1199 bp
RefSeq ORF:	786 bp
Locus ID:	310218
UniProt ID:	B0BNN3
Cytogenetics:	2q23
MW:	28.3 kDa
Gene Summary:	Reversible hydration of carbon dioxide.[UniProtKB/Swiss-Prot Function]