

Product datasheet for **RR201532**

Car3 (NM_019292) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Car3 (NM_019292) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Car3
Synonyms:	Ca3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR201532 representing NM_019292 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCTAAGGAGTGGGGTTACGCCAGCCACAATGGTCCTGAGCACTGGCATGAACTTTATCCAATTGCCA
AAGGGGACAACCAGTCACCCATTGAACTGCATACTAAAGACATCAGGCATGATCCTTCTCTGCAGCCTTG
GTCAGTATCTTATGATCCTGGCTCTGCTAAGACCATCCTGAACAATGGGAAGACCTGCAGAGTTGTGTTT
GATGATACTTTCGACAGGTCCATGCTGAGAGGTGGCCCTCTCTCTGGACCCTACCGACTTCGCCAATTCC
ATCTTCACTGGGGCTCCTCGGATGACCATGGCTCTGAGCACACAGTGGATGGAGTGAAGTATGCTGCTGA
GCTTCACCTGGTTCACTGGAACCCGAAGTATAACACCTTCGGAGAGGCTCTGAAGCAGCCCGATGGGATT
GCTGTGTTGGCATTCTTCTGAAGATAGGACGGGAGAAAGGCGAGTTCAGATTCTCCTTGATGCCTGG
ACAAAATTAAGACTAAGGGCAAGGAGGCTCCTTTTAATCACTTCGACCCATCGTGCCTGTTCCCTGCTTG
CCGGGACTATTGGACCTACCATGGCTCCTTACCACGCCACCCTGCGAGGAGTGCATTGTGTGGCTGCTA
CTGAAAGAGCCCATGACAGTGAGCTCAGACCAGATGGCCAAGCTGCGCAGCCTGTTGCCAGTGCAGAGA
ATGAGCCCCGGTGCCTCTGGTGGGGAATTGGCGCCCTCCTCAGCCGATCAAGGGCAGGGTGGTGAAGGC
CTCCTTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201532 representing NM_019292
 Red=Cloning site Green=Tags(s)

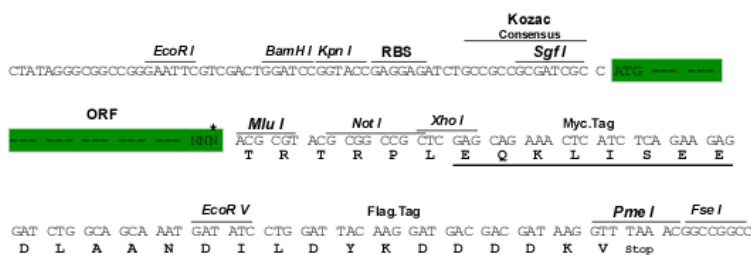
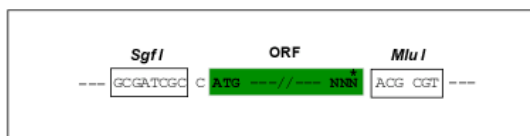
MAKEWGYASHNGPEHWHEL YPIAKGDNQSPIELHTKDIRHDPSLQPWSVSYDPGSAKILNNGKTCRVVF
 DDTFDRSMLRGGPLSGPYRLRQFHLHWGSSDDHGSEHTVDGVKYAAELHLVHWNPKYNTFGEALKQPDGI
 AVVGIFLKGIGREGEFQILLDALDKIKTKGKEAPFNHFDPISLACRDRWYTHGSFTTPPCEEICVWLL
 LKEPMTVSSDOMAKLRSLFASAENPPVPLVGNWRPPPIKGRVVRASEK

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 019292

ORF Size: 780 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_019292.4](#), [NP_062165.2](#)

RefSeq Size: 802 bp

RefSeq ORF: 783 bp

Locus ID: 54232

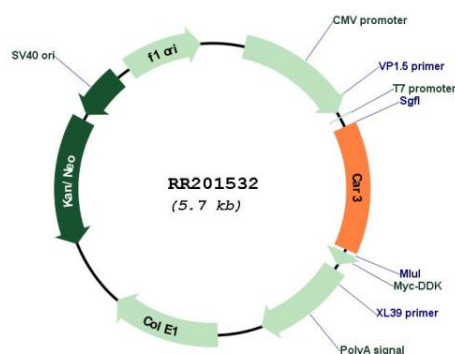
UniProt ID: [P14141](#)

Cytogenetics: 2q23

MW: 29.4 kDa

Gene Summary: catalyzes hydration of carbon dioxide; may be involved in cellular response to oxidative stress [RGD, Feb 2006]

Product images:



Circular map for RR201532