

Product datasheet for **MR216505**

Car7 (NM_053070) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Car7 (NM_053070) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Car7
Synonyms: AV343731; Ca7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR216505 representing NM_053070
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGGCCACCACTGTTGGGGCTACGGCCAGGACGACGGCCCTTCAAATTGGCACAAGCTGTATCCCA
TTGCCAGGGAGACCGCCAGTCACCCATCAATATCATATCCAGCCAGGCTGTGTACTCGCCAGCCTGCA
GCCACTGGAACCTTTCTATGAGGCTGCATGTCCCTCAGCATCACCAACAATGGCCACTCTGTCCAGGTG
GACTTCAATGACAGTGATGACAGAACCCTGGTGTCTGGGGCCCCCTGGAAGGGCCCTATCGTCTCAAGC
AGCTCCACTTCCACTGGGCAAGAAGCGCGACATGGGCTCAGAGCACACAGTGGACGGCAAGTCCTTCCC
CAGCGAGCTACATCTGGTTCACTGGAACGCCAAGAAGTACAGCACTTTTGGGGAGGCGGCTGCAGCCCT
GATGGCCTGGCTGTGGTTGGTGTCTTCTGGAGACAGGAGATGAGCACCAAGCATGAACCGCCTGACAG
ACGCCCTTACATGGTTCGATTTAAGGACACCAAGGCCAGTTCAGCTGCTTCAACCCCAAGTGCCTGCT
GCCCACGACCGACACTACTGGACCTATCCTGGCTCCCTGACCACACCCCACTCAGTGAGAGTGTCACT
TGGATTGTGCTTCGGGAGCCATCAGGATCTCCGAGAGGCAGATGGAGAAATCCGGAGCCTGCTTTTCA
CCTCAGAGGATGATGAGAGGATCCATATGGTGGACAACTCCGGCCACCACAGCCGCTGAAGGGCCGAGT
GGTCAAAGCATCCTTCCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216505 representing NM_053070
Red=Cloning site Green=Tags(s)

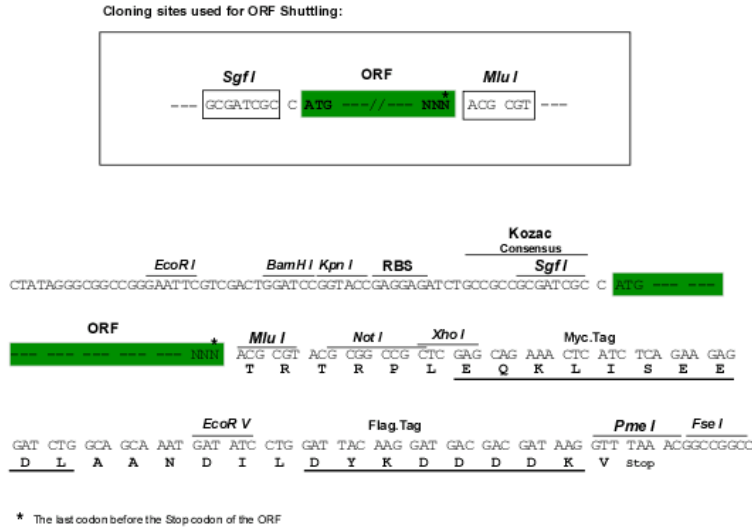
MTGHHCWGYGQDDGPNWHKLYPIAQGDRQSPINIISSQAVYSPSLQPLELFYEACMSLSITNNGHSVQV
 DFNDSDDRTVVSGGLEGPYRLKQLHFHWGKKRDMGSEHTVDGKSFPSLHLVHWNACKYSTFGAAAAAP
 DGLAVVGVFLETGDEHPSMNRLTDALYVRFKDTKAQFSCFNPKLLPTSRHYWTPGSLTTPPLSESVT
 WIVLREPIRISERQMEKFRSLLFTSEDDERIHMVDFRPPQPLKGRVVKASFQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9043_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053070

ORF Size: 792 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_053070.3](#), [NP_444300.1](#)

RefSeq Size: 1538 bp

RefSeq ORF: 795 bp

Locus ID: 12354

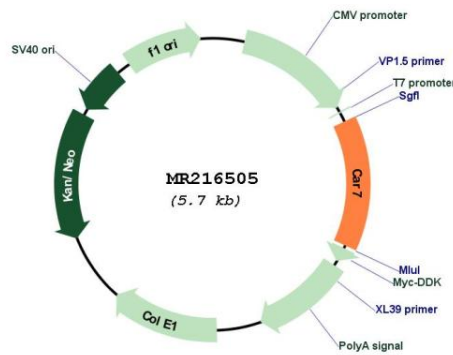
UniProt ID: [Q9ERQ8](#)

Cytogenetics: 8 D3

MW: 30.4 kDa

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

Product images:



Circular map for MR216505