

Product datasheet for MR228521

Car7 (NM_001301164) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Car7 (NM_001301164) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Car7
Synonyms: AV343731; Ca7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228521 representing NM_001301164
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCCTCAGCATCACCAACAATGGCCACTCTGTCCAGGTGGACTTCAATGACAGTGATGACAGAACCG
TGGTGTCTGGGGCCCCCTGGAAGGGCCCTATCGTCTCAAGCAGCTCCACTTCCACTGGGCAAGAAGCG
CGACATGGGCTCAGAGCACACAGTGGACGGCAAGTCTTCCCCAGCGAGCTACATCTGGTTCCTGGAAC
GCCAAGAAGTACAGCACTTTTGGGGAGGCGGCTGCAGCCCTGATGGCCTGGCTGTGGTTGGTGTCTTCC
TGGAGACAGGAGATGAGCACCCAAGCATGAACCGCTGACAGACGCCCTCTACATGGTTCGATTTAAGGA
CACCAAGGCCAGTTCAGCTGCTTCAACCCCAAGTGCCTGCTGCCACCAGCCGACACTACTGGACCTAT
CCTGGCTCCCTGACCACACCCCACTCAGTGAAGTGTCACTTGGATTGTGCTTCGGGAGCCCATCAGGA
TCTCCGAGAGGCAGATGGAGAAATTCGGAGCCTGCTTTTACCTCAGAGGATGATGAGAGGATCCATAT
GGTGGACAACCTCCGGCCACCACAGCCGCTGAAGGGCCGAGTGGTCAAAGCATCCTTCCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228521 representing NM_001301164
Red=Cloning site Green=Tags(s)

MSLSITNNGHSVQVDFNDSDDRTVVSGPLEGPYRLKQLHFHWGKKRDMGSEHTVDGKSFPSSELHLVHWN
AKKYSTFGAAAAAPDGLAVVGVFLETGDEHPSMNRLTDALYMVRFKDTKAQFSCFNPKCLLPTSRHYWTY
PGSLTTPPLSESVTWIVLREPIRISERQMEKFRSLLFTSEDDERIHMVDFRPPQPLKGRVVKASFQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

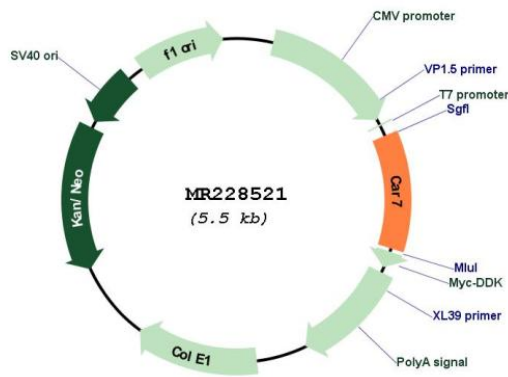


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001301164

ORF Size: 624 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_001301164.1](#), [NP_001288093.1](#)

RefSeq Size: 1943 bp

RefSeq ORF: 627 bp

Locus ID: 12354

UniProt ID: [Q9ERQ8](#)

Cytogenetics: 8 D3

MW: 24.1 kDa

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