

Product datasheet for **MR228522**

Car7 (NM_001301165) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Car7 (NM_001301165) 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: >MR228522 representing NM_001301165
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTCCCTCAGCATCACCAACAATGGCCACTCTGTCCAGGTGGACTTCAATGACAGTGATGACAGAACCG
TGGTGTCTGGGGCCCCCTGGAAGGGCCCTATCGTCTCAAGCAGCTCCACTTCCACTGGGCAAGAAGCG
CGACATGGGCTCAGAGCACACAGTGGACGGCAAGTCTTCCCAGCGAGCTACATCTGGTTCAGTGAAC
GCCAAGAAGTACAGCACTTTTGGGAGGGCGCTGCAGCCCCTGATGGCCTGGCTGTGGTTGGTGTCTTCC
TGGAGACAGGAGATGAGCACCCAAGCATGAACCGCCTGACAGACGCCCTCTACATGGTTCGATTTAAGGA
CACCAAGGCCAGTTCAGCTGCTTCAACCCAAGTGCCTGCTGCCACCAGCCGACACTACTGGACCTAT
CCTGGCTCCCTGACCACCCCCCACTCAGTGAGAGTGTCATTGGATTGTGCTTCGGGAGCCCATCAGGA
TCTCCGAGAGGCAGATGGAGAAATTCGGAGCCTGCTTTTACCTCAGAGGATGATGAGAGGATCCATAT
GGTGGACAACTTCCGGCCACCACAGCCGCTGAAGGGCCGAGTGGTCAAAGCATCTTCCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228522 representing NM_001301165
Red=Cloning site **Green**=Tags(s)

MSLSITNNGHSVQVDFNDSDDRTVVSGGLEGPYRLKQLHFHWGKKRDMGSEHTVDGKSFPSLHLVHWN
AKKYSTFGAAAAPDGLAVVGVFLETGDEHPSMNRLTDALYMRFKDTKAQFSCFNPKCLLPSTRHYWTY
PGSLTTPPLSESVTWIVLREPIRISERQMEKFRSLLFTSEDDERIHMDNFRPPQPLKGRVVKASFQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001301165

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

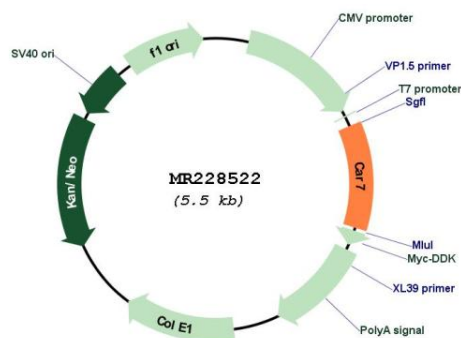
RefSeq: [NM_001301165.1](#), [NP_001288094.1](#)

RefSeq Size: 1511 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]

Product images:



Circular map for MR228522