

Product datasheet for **RR204696**

Car8 (NM_001009662) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Car8 (NM_001009662) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Car8
Synonyms:	Ca8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR204696 representing NM_001009662 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGCTGACTTGAGTTTCATTGAGGATGCAGTCGCCTTCCCCGAGAAGGAGGAAGATGAGGAAGAGGAGG
 AGGAGGGCGTGGAGTGGGGTTACGAGGAAGGTGTTGAGTGGGGCTTAGTGTTTCTGATGCGAATGGCGA
 GTACCACTCACCTATCAACCTGAACCTCCAGAGAAGCCAGATACGACCCCTCGTCTGGATGTCCGCCTG
 TCTCCAAATTACGTGGTGTGCAGGGACTGTGAAGTCACCAACGATGGACACACCATTCAAGTCATCCTGA
 AGTCGAAATCAGTTTTGTCAGGAGGACCGCTGCCTCAGGGACAGGAGTTTGAAGTGTATGAAGTTAGATT
 TCACTGGGGAAGAGAAAACGAGCGTGGTTCTGAGCATACGGTCAATTTCAAAGCCTTCCCATGGAGCTC
 CACCTGATCCACTGGAATTCACGCTGTTTGGCAGCATCGATGAGGCGGTTGGGAAACCCACGGCATTG
 TCATCATTGCACTGTTCTGCCAGATAGGGAAGGAGCATGTTGGCTTGAAGGCTGTGACTGAGATACTTCA
 GGATATCCAATACAAGGGAAAAATCCAAACAATTCCATGCTTTAATCCTAACACTTTATTACCAGACCCCT
 CTTCTGCGGGATTACTGGGTCTATGAAGGATCTTACTATTCCACCTTGCACTGAAGGAGTTACCTGGA
 TATTATTCCGATACCCATTAACATATCCAGCTGCAGATAGAAGAATTTGAAGACTGAGGACACATGT
 TAAGGGGCGAGAACTTGTGCAAGGCTGTGACGGGATTTGGGAGATAATTTCCGACCTACCCAGCCCTG
 AGTGACAGAGTCATCCGAGCAGCATTTTCA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

Protein Sequence: >RR204696 representing NM_001009662
 Red=Cloning site Green=Tags(s)

MADLSFIEDAVAFPEKEEDEEEEEEGVEWGVEEGLVFPDANGEYQSPINLNSREARYDPSLLDVRL
 SPNYVVCRCDEVTNDGHTIQVILKSKSVLSGGPLPQGQEFELYEYRFHWGRENQRGSEHTVNFKAFFMEL
 HLIHWNSTLFGSIDEAVGKPHGIVIIALFVQIGKEHVGLKAVTEILQDIQYKGKSKTIPCFNPNTLLPDP
 LLRDYWVYEGSLTIPPCSEGVTWILFRYPLTISQLQIEEFRRRLRTHVKGAELEGGDILGDNFRPTQPL
 SDRVIRAAFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001009662

ORF Size: 870 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_001009662.1](#), [NP_001009662.1](#)

RefSeq Size: 1425 bp

RefSeq ORF: 873 bp

Locus ID: 297814

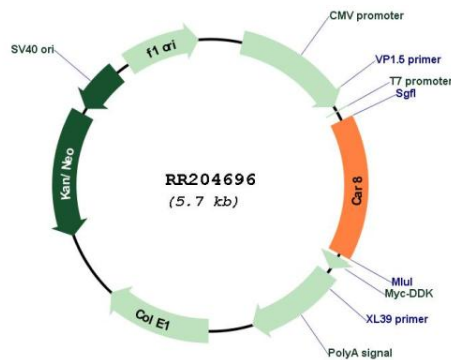
UniProt ID: [Q5PPN4](#)

Cytogenetics: 5q13

MW: 33 kDa

Gene Summary: Does not have a carbonic anhydrase catalytic activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR204696