

Product datasheet for **MR226237**

Car9 (NM_139305) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Car9 (NM_139305) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Car9
Synonyms:	Ca9; CAIX; MN/CA9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR226237 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCCTCCCTGGGCCCCAGCCCCTGGGCCCTTTGTGACCCCCAGCCCCTACTGCACAGCTGCTGCTGT
 TCCTGCTGCTCCAAGTGTCTGCTCAGCCCCAGGGCCTGTCCGGGATGCAGGGGGAGCCCTCCTTGGGAGA
 CAGTTCATCTGGGAGGATGAGCTGGGCGTGGATGTTCTGCCAGTGAAGAGGATGCACCTGAAGAGGCG
 GATCCACCCGATGGGAGGATCCACCTGAAGTTAATTCTGAAGACAGGATGGAGGAGTCCCTTGGGTTAG
 AGGATCTATCGACTCCCAGGCTCCTGAGCACAGTCAAGGTTCCACGGGGATGAAAAAGGGGTGGCCA
 CAGTCATTGGAGCTATGGAGGCACCTACTCTGGCCCCAGGTGTCCCAGCCTGTGCTGGCCGCTTTCAG
 TCCCCGGTAGACATCCGCTGGAGCGCACCGCATTCTGCCGCACTCTGCAACCCCTGGAACCTTCTGGGTT
 ATGAGCTCCAGCCTCTCCCGAACTGAGCCTATCCAACAATGGCCACACGGTACAGCTGACTCTGCCGCC
 GGGGCTGAAGATGGCTCTGGGACCTGGGAGGAATACCGGCCCTTGCAAGTTGCATCTACACTGGGAACT
 TCAGATACCCAGGCTCAGAACACACAGTCAATGGTCACCGTTTCCCTGCTGAGATCCACGTGGTGCACC
 TCAGTACTGCTTTCTCCGAACCTCATGAAGCCTTGGGCCGCCAGGAGGCTGGCAGTTTGGCTGCCTT
 TCTGCAGGAGAGCCCAGAAGAAAACAGTGCTTACGAACAGTTGCTGTCCATTTGGAAGAAATCTCGGAG
 GAAGGCTCCAAGATTGAGATCCCAGGTTTGGATGTATCTGCACTGTTGCCCTCGGACCTCAGCCGCTACT
 ACCGATATGAAGGCTCTTGACCACACCTCCCTGCAGCCAGGGGGTCACTGGACTGTGTTCAATGAGAC
 AGTGAACTGAGCGCTAAGCAGCTCCATACTCTCTCCGTTTCTTGTGGGACCTCGTGATTCTCGGCTA
 CAACTGAACTTCCGAGCCACGCAACCTTGAATGGGCGAACGATTGAGGCTTCTTCCCTGCTGCAGAGG
 ATAGCAGCCCTGAGCCAGTCCATGTGAATTCCTGCTTCACTGCTGGTGACATCCTAGCCTTGGTGTGG
 CTTTCTCTTGTGTACACGATCGCCTTCTCTACAGCTGAGGAGGCAGCACAGGCACAGAAGTGGG
 ACCAAAGATAGAGTTAGCTACAGTCCGGCAGAGATGACAGAACTGGAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226237 protein sequence
 Red=Cloning site Green=Tags(s)

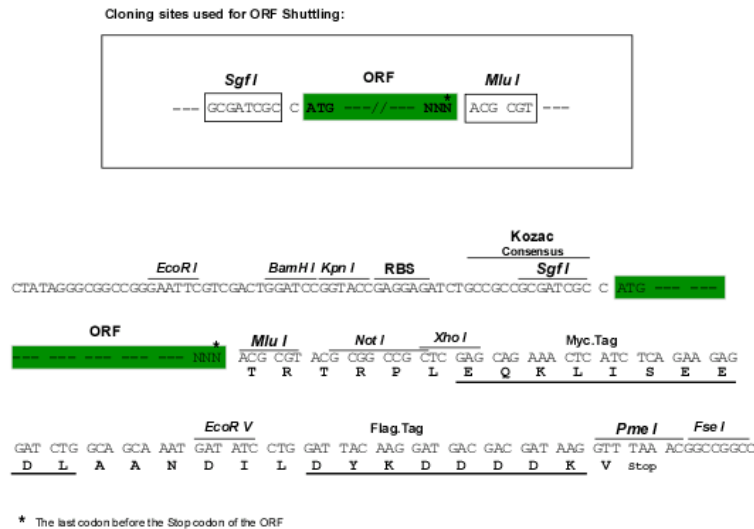
MASLGSPWAPLSTPAPTAQLLLFLLLQVSAQPQGLSGMQGEPSLGDSSSGEDELGVDVLPSEEDAPEEA
 DPPDGEDPPEVNSEDRMEESLGEDLSTPEAPEHSQSGHDEKGGGSHWSYGGTLLWPQVSPACAGRFQ
 SPVDIRLERTAFCTRLQPLELLGYELQPLPELSLNNGHTVQLTLPPLKMLGPGQEYRALQLHLHWGT
 SDHPGSEHTVNGHRFPAEIHVVHLSTAFSELHEALGRPGLAVLAFLQESPEENSAYEQLLSHLEEISE
 EGSKIEIPGLDVSALLPSDLTRYRYEGSLTTPPCSQGVITVFNETVKLSAKQLHTLSVSLWGPRDSRL
 QLNFRATQPLNGRTIEASFPAEDSSPEPVHVNSCFTAGDILALVFGLLFAVTSIAFLLQLRRQHRHRS
 TKDRVSYSPEMTETGA

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_139305

ORF Size: 1311 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

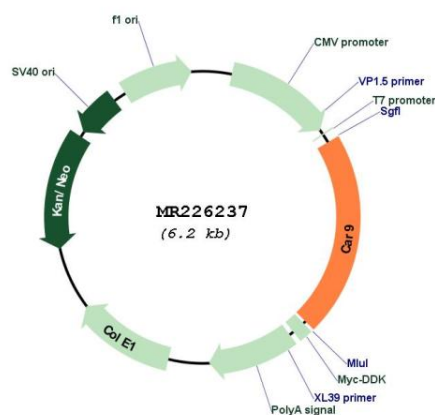
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_139305.2, NP_647466.2</u>
RefSeq Size:	1959 bp
RefSeq ORF:	1314 bp
Locus ID:	230099
UniProt ID:	<u>Q8VHB5</u>
Cytogenetics:	4 A5
MW:	47.3 kDa
Gene Summary:	Reversible hydration of carbon dioxide. Participates in pH regulation (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226237