

Product datasheet for MR204282

Car4 (NM_007607) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Car4 (NM_007607) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Car4
Synonyms:	AW456718; Ca4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204282 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCTCCTTCTTGCTCTGCTGGCGCTGGCATACTGGCCCCCTCTACTGAAGACTCAGGCTGGTGT
ATGAGATTCAAACCAAGGATCCTAGAAGCAGTTGCTTGGGGCCTGAGAAGTGGCCTGGAGCCTGTAAGGA
GAATCAGCAGTCCCCATCAACATTGTCAGTCTAGGACAAAGGTGAACCCAGACTGACACCCCTTCATC
CTCGTCGGCTATGACAAAAGCAACAGTGGCCAATTAAGAACAATCAACACACAGTGGAGATGACGCTGG
GGGAGGTGCGTGCATTATCGGAGGAGACTGCCCGCCGGTACGAGGCTGTACAGTTGCACCTGCACTG
GTCAAATGGGAATGACAACGGTTTCAGAGCACAGTATTGATGGGAGACACTTTGCCATGGAGATGCACATC
GTGCACAAGAAGTTGACATCTAGCAAGGAGACTCGAAGGACAAGTTTGCAGTGTGGCATTATGATTG
AGGTAGGAGACAAGGTGAACAAGGGCTTCAGCCCTGGTGAAGCACTGCCAGTATCTCCAAACCCCA
TTCAACCTCTACAGTGAAGGAGAGCAGTTTGCAGGACATGCTTCCCCGAGCACCACAAAATGTATACCTAC
TTCCGTTACAATGGTCACTAACCACACCAAACTGTGATGAGACTGTCTGGACTGTGTACAAACAAC
CCATCAAGATCCACAAAACAGTTCTTGAATTCCAAAAACTGTACTATGACGAAGATCAGAAGTT
GAACATGAAGGACAATGTGAGGCCCTGCAGCCGCTGGGAAAACGCCAGGTGTTCAAGTCCCATGCCCA
GGACAGCTGCTGTCTTTGCCCTGCCACTCTGTTGGTCCCACACTCACCTGCCTGGTAGCCAACCTCC
TCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204282 protein sequence
Red=Cloning site Green=Tags(s)

MQLLLALLALAYVAPSTEDSGWCYEIQTKDPRSSCLGPEKWPGACKENQQSPINIVTARTKVNPRLTPFI
 LVGYDQKQWPVKNNQHTVEMTLGGGACIIGDLPARYEAVQLHLHWSNGNDNGSEHSIDGRHFAMEMHI
 VHKKLTSSKEDSKDKFAVLAFMIEVGDKNKGFQPLVEALPSISKPHSTSTVRESSLQDMLPPSTKMYTY
 FRYNGSLTTPNCDETVIWTVYKQPIKIHKNQFLEFSKNLYYDEDQKLNMKDNVRPLQPLGKRQVFKSHAP
 GQLLSLPLPTLLVPTLTCLVANFLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007607

ORF Size: 918 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_007607.2](#)

RefSeq Size: 1316 bp

RefSeq ORF: 918 bp

Locus ID: 12351

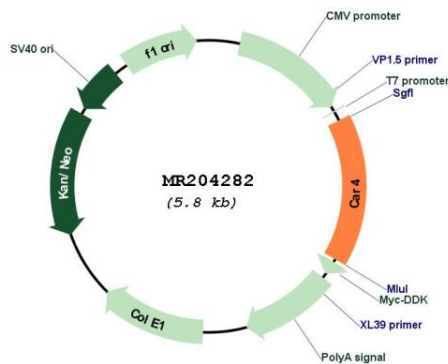
UniProt ID: [Q64444](#)

Cytogenetics: 11 C

MW: 34.4 kDa

Gene Summary: Reversible hydration of carbon dioxide. May stimulate the sodium/bicarbonate transporter activity of SLC4A4 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204282