

Product datasheet for **MR210925**

Ccar1 (BC079652) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccar1 (BC079652) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccar1
Synonyms:	2610511G16Rik; 9430036H15Rik; Carp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210925 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCAGTTTGGAGGACAGAAGAATCCACCATGGGCTACTCAGTTTACAGCCACTGCGGTCTCACAAC
 CAGCTGCACTAGGTGTTTACAGCAGCCATCACTTCTGGGAGCATCTCTACCATTTATACCCAGCAGACTGC
 ATTGGCGGCGGCAGGCCCTTACCACACAAAACGCCAGCAAATATCAGTTAACACAAAACCTGCGGCACTGCAG
 CAACAAGCTGCAGCTGTATTACAGCAGCAATATTCACAACCTCAGCAGGCCTTGTATAGTGTGCAGCAGC
 AGTTGCAACAACCTCAGCAGACCATTTTAAACACAGCCAGCTGTTGCATTGCCACAAGCCTTAGCCTGTC
 GACTCCTCAGCCTGCAGCACAGATTACTGTATCATATCCAACACCAAGGTCCAGTCAACAGCAAACCTCAA
 CCTCAGAAGCAGCGTGTTCACAGGAGTGGTTACAAAGCTACATGATACATTTGGATTTGTGGATGAAG
 ATGTATTCCTTTCAGCTTGGTGTGTTAAAGGGAAAACCCCAAGTTGGTATAGAGTATTGGTTGAAGC
 AACTTATAATCCTAATATGCCTTTTAAATGGAATGCACAAGAATTCAAACACTACCAAATCAGAATCAG
 TCTCAAACGCAACCTTTACTGAAGACTCCGACTGCTGTTATTAGCCGATTGTGCCACAGACAACGTTTG
 GTGTTACAGGCACAGCCCAACCCAGTCATTATTGCAGGCCAGATCTCAGCTGCCTCTATTACACCACT
 ATTGACAGCAGCCACAGCCCTTATTACAGCAGCCACAGCAGAAAGCTGGTTTATTGCAGCCTCTTGTGTC
 CGAATAGTGTACAGCCACAACCTGCAGCGGAGATTAGATCCACCATCACGATTTTCAGGAAGAAACGACA
 GAGGGGATCAAGTACCTAATAGAAAAGATGACCGAAGTCGTGAAAGGGACAGAGAAAGACGCAGACTAG
 AGAAAGATCACCTCAGAGGAAACGTTCCCGGGAGAGGTCACCCCGGAGAGAAAGAGAGCGCTCCCTCGG
 AGAGTCCGTGTCGTTCCACGGTACACAGTGCAGTTTTCAAAGTTTTCTTTAGATTGTCCAGTTGTG
 ACATAGGAACTAAGGCGCCGTTATCAGAATTATATATTCCTAGTGACTTTTTTTGATGCTCAGTTTAT
 ATGGGTGGATGCTTTCCCTTTGTCAAGACCATTCAACTGGGAAATTAAGCAATTTTTATGTGATGCAC
 CGAGAAGTAGAGTCTTAGAAAAAATATGGCTGTTCTTGATCCACCTGATGCTGACCACCTGTACAGTG
 CAAAGGTAATGCTGATGGCTAGCCCTAGTATGGAAGACTTGATCATAAGTCATGTGCTCTTGTGTAAGA
 CCCACAAGACCTTCGTGATGGTTTTAGCATCCTGCTAGACTTGTAAAGTTTCTAGTGGGAATGAAAGGC
 AAGGATGAAGCCATGGCCATTGGAGGCCACTGGTCTCCTTCGCTGGATGGACCAACCCAGAAAAAGATC
 CCTCTGTGTTGATTAAGACTGCCATTGTTGTTAAGGCTCTGACAGGCATTGATCTAAGTGTATGCAC
 ACAGTGGTACCGTTTTGCAGAGATTGCTACCATCGCCCTGAGGAGACCCACAAGGGCGTACAGTTCCA
 GCTCATGTGGAGACAGTGGTTTTATTTTCCCGGATGTTGGCATTGCCCTCCACCCGCTCAGAGTGGG
 AAACCTCTCCCGAGGATACAAGCAGCAGCTGGTCGAGAAGCTTCAGGGTGAACGCAAGAAGGCTGATGG
 AGAACAGGATGAAGAAGAGAAGGATGATGGTGAAGTTAAAGAGATCGCCACTCCTACCCATTGGTCTAAG
 CTTGATCCAAAGGCAATGAAGGTAATGATCTCCGAAAAGAAATTAGAAAGTCGAGCTCTCAGTTCCAAAG
 GACTAAAAATCGCAGTTAATAGCTCGCTAACAAAGCAGCTTAAAAAGAGAACAAGAAAGAGAGCAGAA
 GGAATTAGAGAAGTCTGAAAAGGAAGAGGAAGATGAGGATGATAAGAAGTCTGAGGATGATAAAGAGGAA
 GAAGAAAGAAAACGTCAAGAAGAAGTGAACGACAGCGTCAAGAAAGAAGATACATTTTGCCTGATGAAC
 CTGCCATAATTGTGCATCCGAACCTGGCTGCAAAAAGTGGCAAGTTTATTGTCAGCATCATGTCTTTGAG
 TGTCTTTTGGATTACAGATTGGAAGATAATAAGAACATTCTTTGAGGTTTCACTGTTTGCAGAACTT
 TTCAATGAAATGCTTCAAAGAGACTTTGGGGTTAGAATATACAAATCATTACTCTCTCTGAGAAAG
 AGGACAAAAAGATAAGGAGAAGAAAAGCAAAAAAGAGAGAAAAGATAAAAAGAAAGAAAGAGAAGA
 TGATATTGATGAACCAAAACCAAAACGGAGAAAATCAGGCGACGATAAAAAAAAAAAAAAAAAAAGAAGA
 GAGAAAAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210925 protein sequence
 Red=Cloning site Green=Tags(s)

MAQFGGQKNPPWATQFTATAVSQPAALGVQQPSLLGASPTIYTQQTALAAAGLTTQTPANYQLTQTAALQ
 QQAAAVLQQQYSQPQQALYSVQQQLQQPQQTILTQPAVALPTSLSLSTPQPAAQITVSYTPRSSQQQTQ
 PQKQRFVTVGVTKLHDTFGFVDEDFVFLGAVKGTTPQVGDVRLVEATYNPNMPFKWNAQRIQTLPNQNG
 SQTQPLLKTPATAVIQPIVPTTFVQVQAQPQSLLQAQISAASITPLLQTQPQLLQQPQQKAGLLQPLV
 RIYSQPQPARRLDPPSRFSGRNDRGDQVPNRKDDRSRERDRRRSRERSRSPQRKRSRERSRPRRERSR
 RVRRVVPRTYVQFSKFLDCPSCDMMELRRRYQNLVYPSDFDAQFTWVDAFPLSRPFQLGNYCNFYVMH
 REVESLEKNMAVLDPPDADHLYSAKVMLMASPSMEDLYHKSCALAEQDLRDFQHPARLVKFLVGMKG
 KDEAMAIGGHWSPLDGNPEKDPVSVLTKTAIRCKKALTGIDLSVCTQWYRFAEIRYHRPEETHKGRTP
 AHVETVVLFFPDVWHCLPTRSEWETLSRGYKQQLVEKLQGERKKADGEQDEEEKDDGEVKEIATPTHWSK
 LDPKAMKVNLDLRLKELSRALSSKGLKSQLIARLTKQLKIEEQKEEQKELEKSEKEEEDDDKKSSEDDKEE
 EERKRQEEVERQRQERRYILPDEPAIIVHPNWAAKSGKFDCSIMLSVLLDYRLEDNKEHSFEVSLFAEL
 FNEMLRDFGVRIYKSLLSLPEKEDKKKKEKSKKEERKDKKEEREDDIDPKPKRRKSGDDKKKKKKRR
 EKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

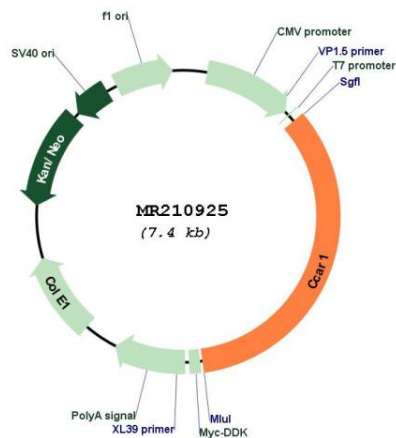
Cloning Scheme:



ACCN:	BC079652
ORF Size:	2529 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:	<ol style="list-style-type: none">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:	BC079652 , AAH79652
RefSeq Size:	4477 bp
RefSeq ORF:	2531 bp
Locus ID:	67500
Cytogenetics:	10 B4
MW:	97 kDa

Gene Summary:

Associates with components of the Mediator and p160 coactivator complexes that play a role as intermediaries transducing regulatory signals from upstream transcriptional activator proteins to basal transcription machinery at the core promoter. Recruited to endogenous nuclear receptor target genes in response to the appropriate hormone. Also functions as a p53 coactivator. May thus play an important role in transcriptional regulation. May be involved in apoptosis signaling in the presence of the retinoid CD437. Apoptosis induction involves sequestration of 14-3-3 protein(s) and mediated altered expression of multiple cell cycle regulatory genes including MYC, CCNB1 and CDKN1A. Plays a role in cell cycle progression and/or cell proliferation (By similarity). In association with CALCOCO1 enhances GATA1- and MED1-mediated transcriptional activation from the gamma-globin promoter during erythroid differentiation of K562 erythroleukemia cells (PubMed:24245781). Can act as a both a coactivator and corepressor of AR-mediated transcription. Contributes to chromatin looping and AR transcription complex assembly by stabilizing AR-GATA2 association on chromatin and facilitating MED1 and RNA polymerase II recruitment to AR-binding sites. May play an important role in the growth and tumorigenesis of prostate cancer cells (PubMed:23887938).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MR210925