

Product datasheet for MR224135

Ccar1 (NM_026201) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccar1 (NM_026201) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccar1
Synonyms:	2610511G16Rik; 9430036H15Rik; Carp1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR224135 representing NM_026201 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAGTTTGGAGGACAGAAGAATCCACCATGGGCTACTCAGTTTACAGCCACTGCGGTCTCACAAC
CAGCTGCACTAGGTGTTCCAGCAGCCATCACTTCTGGGAGCATCTCCTACCATTTATACCCAGCAGACTGC
ATTGGCGCGGCAGGCCCTTACCACACAAACGCCAGCAAATATCAGTTAACACAAACTGCGGCAGCTGCAG
CAACAAGCTGCAGCTGTATTACAGCAGCAATATTCACAACCTCAGCAGGCCTTGTATAGTGTGCAGCAGC
AGTTGCAACAACCTCAGCAGACCATTTTAAACACAGCCAGCTGTTGCATTGCCACAAAGCCTTAGCCTGTC
GACTCCTCAGCCTGCAGCACAGATTACTGTATCATATCCAACACCAAGGTCCAGTCAACAGCAAACCTCAA
CCTCAGAAGCAGCGTGTTCACAGGAGTGGTTACAAAGCTACATGATACATTTGGATTTGTGGATGAAG
ATGTATTCTTTCAGCTTGGTGTGTTAAAGGGAAAACCCCAAGTTGGTGATAGAGTATTGGTTGAAGC
AACTTATAATCCTAATATGCCTTTTAAATGGAATGCACAAAGAATTCAAACACTACCAAATCAGAATCAG
TCTCAAACGCAACCTTTACTGAAGACTCCGACTGCTGTTATTAGCCGATTGTGCCACAGACAACGTTTG
GTGTTCCAGGCACAGCCCAACCCAGTCATTATTGCAGGCCAGATCTCAGCTGCCTCTATTACACCACT
ATTGCAGACGCAGCCACAGCCCTTATTACAGCAGCCACAGCAGAAAGCTGGTTTATTGCAGCCTCCTGTC
CGAATAGTGTACAGCCACAACCTGCGCGGAGATTAGATCCACCATCACGATTTTCAGGAAGAAAACGACA
GAGGGGATCAAGTACCTAATAGAAAAGATGACCGAAGTCGTGAAAGGGACAGAGAAAAGCAGACTAG
AGAAAAGTACCTCAGAGGAAACGTTCCCGGGAGAGGTACCCCGGAGAGAAAAGAGAGCGCTCCCTCGG
AGAGTCCGTCGTGTCGTTCCACGGTACACAGTGCAGTTTTCAAAGTTTTCTTTAGATTGTCCAGTTGTG
ACATGATGGAACAAAGGCGCGTTATCAGAACCTATATATTCCTAGTGACTTTTTTGTGCTCAGTTTAC
ATGGGTGGATGCTTTCCCTTTGTCAAGACCATTCAACTGGGAAATTACTGCAATTTTTATGTGATGCAC
CGAGAAGTAGAGTCTTAGAAAAAATATGGCTGTTCTTGATCCACCTGATGCTGACCACCTGTACAGTG
CAAAGGTAATGCTGATGGCTAGCCCTAGTATGGAAGACTTGTATCATAAGTCATGTGCTCTTGCTGAAGA
CCCACAAGACCTTCGTGATGGTTTTTCAGCATCCTGCTAGACTTGTTAAGTTTCTAGTGGGAATGAAAGGC
AAGGATGAAGCCATGGCCATTGGAGGCCACTGGTCTCCTTCGCTGGATGGACCAAACCCAGAAAAAGATC



[View online »](#)

CCTCTGTGTTGATTA AAACTGCCATTCGTTGTTGTAAGGCTCTGACAGGCATTGATCTAAGTGTATGCAC
ACAGTGGTACCGTTTTGCAGAGATTCGCTACCATCGCCCTGAGGAGACCCACAAGGGCGTACAGTTCCA
GCTCATGTGGAGACAGTGGTTTTATTTTTCCCGGATGTTTGGCATTGCCTTCCCACCCGCTCAGAGTGGG
AAACCTCTCCCAGGATACAAGCAGCAGCTGGTCGAGAAGCTTCAGGGTGAACGCAAGAAGGCTGATGG
AGAACAGGATGAAGAAGAGAAGGATGATGGTGAAGTTAAAGAGATCGCCACTCCTACCCATTGGTCTAAG
CTTGATCCAAAGCAATGAAGGTAATGATCTCCGAAAAGAATTAGAAAAGTCGAGCTCTCAGTCCCAAAG
GACTAAAATCGCAGTTAATAGCTCGCCTAACAAAGCAGCTTAAAATAGAAGAACAAAAGAAGAGCAGAA
GGAATTAGAGAAGTCTGAAAAGGAAGAGGAAGATGAGGATGATAAGAAGTCTGAGGATGATAAAGAGGAA
GAAGAAAAGAAAACGTCAAGAAGAAGTGGAAACGACAGCGTCAAGAAAAGAAGATACATTTTTGCCTGATGAAC
CTGCCATAATTGTGCATCCGAACTGGGCTGCAAAAAGTGGCAAGTTTGATTGCAGCATCATGTCTTTGAG
TGTCTTTTGATTACAGATTGGAAGATAATAAAGAACATTCTTTTGAGGTTTCACTGTTTGCAAACTT
TTCAATGAAATGCTTCAAAGAGACTTTGGGGTTAGAATATACAAATCATTACTCTCTCTTCTGAGAAAG
AGGACAAAAAGATAAAGGAGAAGAAAAGCAAAAAAGAAGAGAGAAAAGATAAAAAAGAAGAAAGAGAAGA
TGATATTGATGAACCAAAACCAAAACGGAGAAAATCAGGCGACGATAAAGACAAAAAGAAGACAGAGAT
GAGAGAAAAGAAAAGAAAAGAAAAGATGATTCTAAAGATGATGATGAAACTGAAGAAGATAACAATC
AAGATGAGTATGACCCAATGGAGGCAGAGGAAGCTGAGGATGAAGATGACGATAGGGAGGAGGAGGAAGT
AAAACGAGATGACAAAAGGGATGTCAGCCGGTACTGCAAGGACAGACCTGCGAAAAGATAAGGAAAAAGAG
AAGCCTCAATGGTCCAGTTAACAGGGATCTGCTAATGGCCTTTGTTTTTTGATCAAAGTATTGCG
GTTACCTTCTTGAAGGATTTGGGAAGAACTATATACTCTTGGACTGCATCTTTCTCGGGCTCAGGT
AAAGAACTTCTTAATAAAGTAGTACTCCGAGAATCGTGCTTTTATCGGAAATTAACAGACACCTCGAAA
GATGATGAGAACCATGAAGAGTCAGAGGCACTGCAGGAAGACATGCTAGGAAACAGATTATTACTTCCAA
CACCAACAATAAAACAGGAATCAAAGATGGAGAGGAAAATGTAGGGCTTATTGTGTACAATGGTGAAT
GGTGGATGTTGGGAGTCTCTACAAAAGTGGAAAAGAGTGAGAAAAGTAAGAGCTGAGGTGGAACAGAAG
CTCCAGTTACTAGAGGAGAAAACAGATGAAGATGGGAAAACATATTTAACTTGGAGAACTTAACAAAA
GCCTCTCTGGTGAACCTAGAGAGGTCAAAAAGACCTTGGTCAATTACAAGAAAACCTGGAGTTTCAGA
AAACATGAATTTGCAATTTGAAAACCAATTGAATAAAACACTCAGAAACTTATCTACAGTTATGGATGAT
ATCCACACTGTCCTCAAAAAGGATAATGTAAAGAGTGAAGACAGAGATGAGAAATCCAAGGAGAACGGCT
CAGGTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224135 representing NM_026201
 Red=Cloning site Green=Tags(s)

MAQFGGQKNPPWATQFTATAVSQPAALGVQPSLLGASPTIYTQQTALAAAGLTTQTPANYQLTQTAALQ
 QQAAAVLQQQYSQPQALYSVQQQLQQPQQTILTQPAVALPTSLSLSTPQPAAQITVSYPTPRSSQQQTQ
 PQKQRFVFTGVVTKLHDTFGFVDEDFVFLQGAVKGKTPQVGDRLVEATYNPMPFKWNAQRIQTLPNQNG
 SQTQPLLKTPTAVIQPIVPQTTFGVQAQPQPSLLQAQISAASITPLLQTQPQLLQQPQQKAGLLQPPV
 RIVSQPQPARRLDPPSRFSGRNDRGDQVPNRKDDRSRERDRERRRSRERSPQRKRSRERSPRRERERSPR
 RVRRVVPRTYVQFSKFLSDCPSCDMMELRRRYQNL YIPSDFFDAQFTWVDAFPLSRPFQLGNYCNFYVMH
 REVESLEKNMAVLDPPDADHLYSAKVMLMASPSMEDLYHKSCAL AEDPQDLRDGFQHPARLVKFLVGMKG
 KDEAMAIGGHWSPLDGNPEKDP SVL IKT AIRCKAL TGIDL SVCTQWYRFAEIRYHRPEETHKGRTPV
 AHVETVVLFFPDVHCLPTRSEWETL SRGYKQQLVEKLQGERKKADGEQDEEEKDDGEVKEIATPTHWSK
 LDPKAMKVNDLRKELSRALSSKGLKSQLIARLTKQLKIEEQKEEQKELEKSEKEEDEDKKS EDDKKEE
 EERKRQEEVERQRQERRYILPDEPAIIVHPNWAASKGKFDCSIMSLSVLLDYRLEDNKEHSFEVSLFAEL
 FNEMLRQDFGVR IYKSLSLPEKEDKKDKKSKKEERKDKKEEREDDIDEPKPKRRKSGDDKDKKEDRD
 ERKKEEKRKDDSKDDDETEEDNNQDEYDPMEEAEAEDEDDREEEEVKRD DKRDVSRYCKDRPAKDEKE
 KPQMVTVNRDLLMAFVYFDQSHCGYLLEKDL EEI LYTGLHL SRAQVKLLLNKVVLRESCFYRKLTDTSK
 DDENHEESEALQEDMLGNRLLLPTPTIKQESKDGEENVGLIVYNGAMVDVGSLLQKLEKSEKVR AEVEQK
 LQLLEEKTDDEGKTI LNLENSNKSLSGELREVKKDLGQLQENLEVSENMNLFENQLNKLTRNLSTVMDD
 IHTVLKKNVKS EDRDEKSKENSGSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

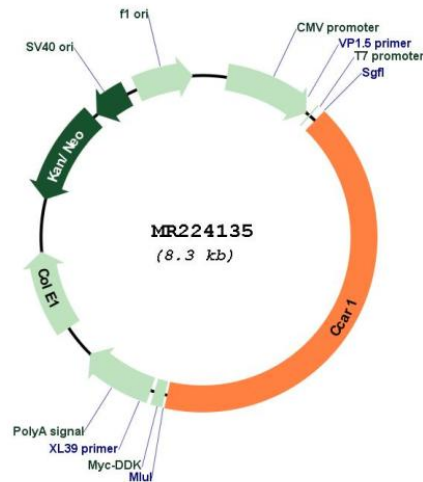
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026201

ORF Size: 3438 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_026201.3](#), [NP_080477.1](#)

RefSeq Size: 4478 bp

RefSeq ORF: 3441 bp

Locus ID: 67500

UniProt ID: [Q8CH18](#)

Cytogenetics: 10 B4

MW: 132.5 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 CALCO1 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]