OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR212462

Rcor1 (NM_198023) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rcor1 (NM_198023) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rcor1
Synonyms:	5730409O11; 6720480E22Rik; AU042633; D12Wsu95e; mKIAA0071; Rocr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR212462 representing NM_198023
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGGTGGGACCCCAGTACCAAGCGGCGGTGCCCGACTTCGATCCTGCCAAACTGGCAAGGCGCAGTC
AAGAACGAGACAATCTTGGCATGTTGGTCTGGTCACCTAATCAGAGTCTTTCTGAAGCAAAACTGGACGA
GTACATCGCTATCGCCAAAGAGAAGCACGGGTACAACATGGAGCAGGCTCTTGGGATGCTCTTTTGGCAT
AAGCATAATATTGAAAAATCATTGGCCGACTTGCCCAACTTCACCCCCTTTCCAGATGAGTGGACTGTAG
AAGACAAAGTCTTATTTGAGCAAGCCTTTAGTTTTCATGGGAAAACTTTTCATAGGATCCAGCAAATGCT
TCCTGATAAATCCATAGCAAGTTTGGTGAAGTTTTACTACTCTTGGAAGAAAACTAGAACTAAAACAAGT
GTGATGGATCGCCATGCTCGGAAACAGAAGCGGGAGCGGGAGGAAAGTGAGGATGAACTGGAAGAAACAA
ACGGCAGTAATCCCGTTGACATTGAGATTGACCCAAACAAGGAAAGCAAAAAGGAGGTGCCCCCTACAGA
GACAGTTCCTCAGGTCAAAAAAGAAAAGCACAGCACACAAGCTAAAAATAGAGCAAAAAGGAAACCTCCG
AAAGGCATGTTTCTTTCTCAAGAAGATGTGGAGGCTGTGTCTGCTAATGCTACTGCTGCGACCACGGTGC
TGAGACAGCTGGACATGGAGCTGGTCTCCATCAAACGACAGATTCAGAACATCAAGCAGACGAACAGTGC
TCTTAAAGAGAAGCTTGATGGTGGGATAGAGCCTTACCGACTCCCAGAGGTTATTCAAAAATGCAACGCT
CGCTGGACAACGGAAGAGCAGCTTCTCGCCGTACAAGCCATTAGGAAATATGGGCGAGATTTTCAGGCGA
TCTCAGATGTGATTGGGAACAAGTCAGTTGTTCAGGTGAAAAACTTTTTTGTAAATTATCGACGCCGCTT
CAACATAGATGAAGTTTTACAAGAATGGGAAGCAGAACATGGGAAAGACGAGACCAATGGACCTGCTAAC
CAGAAACCTGTCAAGTCCCCAGAAAGCTCCATCAAGATCCCGGAGGAGGAAGATGAGGCTGCTTCTGTCC
TCGACGTAAGATACGCATCTGCCTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR212462 representing NM_198023
Red=Cloning site Green=Tags(s)

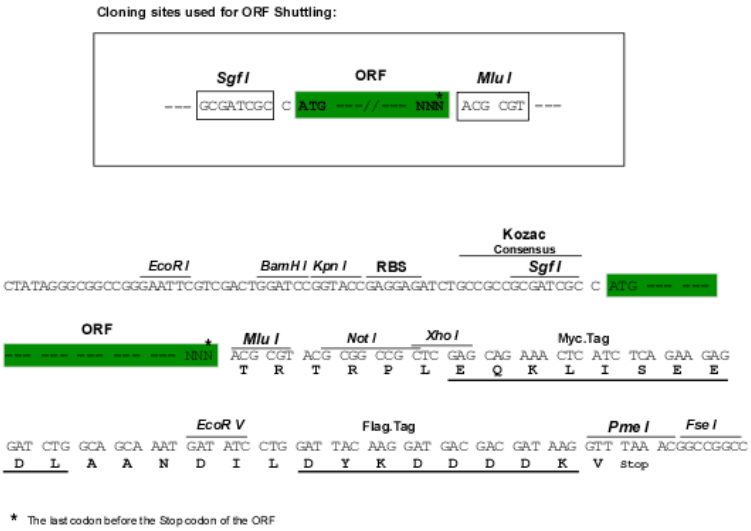
MRVGPQYQAAVPDFDPAKLARRSQERDNLGMLVWSPNQSLSEAKLDEYIAIAKEKHGYNMEQALGMLFWH
KHNIEKSLADLPNFTPFPDEWTVEDKVLFEQAFSFHGKTFHRIQQMLPDKSIASLVKFYYSWKKTRTKTS
VMDRHARKQKREREESEDELEETNGSNPVDIEIDPNKESKKEVPPTETVPQVKKEKHSTQAKNRAKRKPP
KGMFLSQEDVEAVSANATAATTVLRQLDMELVSIKRQIQNIKQTNSALKEKLDGGIEPYRLPEVIQKCNA
RWTTEEQLLAVQAIRKYGRDFQAISDVIGNKSVVQVKNFFVNYRRRFNIDEVLQEWEAEHGKDETNGPAN
QKPVKSPESSIKIPEEEDEAASVLDVRYASAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9035_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198023

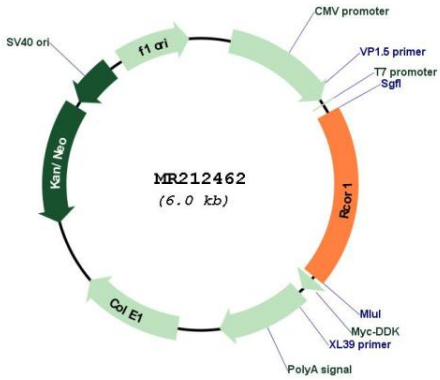
ORF Size: 1146 bp

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.
RefSeq:	NM_198023.2, NP_932140.1
RefSeq Size:	2725 bp
RefSeq ORF:	1149 bp
Locus ID:	217864
UniProt ID:	Q8CFE3
Cytogenetics:	12 60.93 cM
MW:	44.3 kDa
Gene Summary:	Essential component of the BHC complex, a corepressor complex that represses transcription of neuron-specific genes in non-neuronal cells. The BHC complex is recruited at RE1/NRSE sites by REST and acts by deacetylating and demethylating specific sites on histones, thereby acting as a chromatin modifier. In the BHC complex, it serves as a molecular beacon for the recruitment of molecular machinery, including MeCP2 and SUV39H1, that imposes silencing across a chromosomal interval. Plays a central role in demethylation of Lys-4 of histone H3 by promoting demethylase activity of KDM1A on core histones and nucleosomal substrates. It also protects KDM1A from the proteasome. Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development and controls hematopoietic differentiation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212462