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 MC221154

Hic1 (NM_001098203) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hic1 (NM_001098203) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hic1
Synonyms:	AA408311; HIC-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC221154 representing NM_001098203
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTTTTCCTGAAGCGGACATTTTACTTAAATCGGGAGAGTGTGCTGGGCAGACGATGCTGGACACGA
TGGAGGCGCCTGGCCATTCGAGGCAGCTACTGCTGCAGCTCAACAATCAGCGCACCAAGGGCTTCTTGTG
CGACGTGATCATCGTGGTGCAGAATGCCCTCTTCCGCGCGCACAAGAACGTGCTGGCGGCCAGCAGCGCC
TACCTCAAGTCCCTGGTGGTGCATGACAACCTGCTAAACCTGGACCATGACATGGTGAGCCCGGCCGTGT
TCCGCCTGGTGCTGGACTTCATCTACACCGGCCGCCTGACTGACAGTGTTGAGGCCGCAGCAGCAGCAGC
GGTGGCCCCGGGCGCGGAGCCGAGCCTGGGCGCTGTGCTGGCTGCTGCCAGCTACCTGCAGATCCCTGAC
CTCGTGGCTCTGTGCAAGAAGCGCCTCAAACGCCACGGCAAGTACTGCCACCTGCGGGGAGGAGGCAGCG
GCGGCGGCGGCTACGCTCCTTACGGGCGGCCCGGCCGGGGCTTGAGGGCTGCCACGCCCGTCATCCAGGC
TTGCTACTCGTCCCCGGCCGGGCCACCGCCGCCGCCTGCCGCCGAGCCGCCGTCGGGCCCCGATGCAGCC
GTCAACACCCACTGCGCTGAGCTATATGCTTCAGGCCCGGGCCCAGCAGCCTCACTCTGCGCCCCGGAGC
GTCGCTGCTCCCCGCTTTGCGGCCTGGATCTGTCCAAGAAGAGCCCGCCAGGTTCCTCGGTCCCCGAGCG
ACCGCTTAGTGAGCGCGAACTGCCTCCACGCCCGGATAGCCCTCCCGGTGCGGGGCCCGCAGTCTACAAG
GAGCCATCACTCGCCCTGCCCCCGCTGCCGCCTTTGCCCTTCCAAAAGCTGGAGGAGGCCGTACCGACTC
CAGACCCGTTTCGAGGAAGCGGTGGCAGTCCGGGACCCGAGCCCCCCGGCCGCCCCGACGGCTCCAGCCT
CCTCTACCGCTGGATGAAGCACGAGCCAGGCCTGGGTAGTTATGGCGATGAACTGGTCCGGGATCGAGGC
TCCCCGGGTGAGCGCCTGGAGGAGCGCGGTGGGGATCCTGCCGCCTCACCCGGGGGCCCCCCGCTGGGCC
TGGTACCCCCGCCACGCTACCCCGGGAGCCTGGACGGGCCAGGCACAGGAGCAGACGGCGACGACTATAA
GAGCAGCAGCGAGGAGACCGGTAGCAGCGAAGACCCCAGCCCACCCGGCGGCCACCTGGAGGGCTACCCA
TGCCCGCACTTGGCTTATGGTGAGCCTGAGAGCTTTGGTGACAACCTGTACGTGTGCATCCCATGTGGCA
AAGGCTTCCCCAGCTCGGAACAGCTGAATGCACACGTGGAGGCTCACGTAGAGGAAGAAGAGGCGTTATA
TGGCAGGGCAGAGGCTGCTGAGGTGGCTGCTGGGGCCGCCGGCCTTGGGCCCCCCTTTGGTGGCGGTGGG
GACAAGGTCACTGGGGCGCCGGGCGGACTAGGAGAGCTGCTGCGGCCATACCGCTGCGCGTCCTGCGACA
AGAGCTACAAGGACCCGGCCACGCTGAGGCAGCACGAGAAGACACACTGGCTGACAAGGCCCTATCCGTG
TACCATCTGCGGAAAGAAGTTCACGCAACGCGGAACCATGACACGCCATATGCGCAGCCACTTGGGCCTG
AAGCCCTTTGCGTGCGACGCGTGCGGCATGCGCTTCACCCGCCAGTATCGCCTCACGGAGCACATGCGCA
TCCACTCTGGAGAGAAGCCCTACGAGTGCCAGGTGTGCGGTGGCAAGTTTGCTCAACAGCGCAACCTCAT
CAGCCATATGAAGATGCACGCTGTAGGTGGCGCGGCCGGCGCGGCCGGGGCGCTGGCTGGCCTGGGGGGA
CTACCTGGCGTCCCTGGCCCTGACGGCAAGGGCAAGCTCGACTTCCCTGAGGGTGTCTTTGCTGTGGCCC
GCCTCACAGCTGAACAGCTGAGTCTGAAGCAGCAGGACAAGGCAGCTGCTGCCGAGCTGCTGGCGCAGAC
CACGCACTTCCTGCACGACCCCAAGGTGGCGCTGGAGAGCCTCTACCCGCTGGCTAAATTCACTGCTGAG
CTAGGACTCAGCCCAGACAAGGCGGCAGAGGTGCTGAGCCAGGGTGCGCACTTGGCCGCAGGACCGGACA
GCCGAACCATCGACCGTTTCTCTCCCACCTAG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001098203

Insert Size: 2202 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001098203.1, NP_001091673.1
RefSeq Size:	3253 bp
RefSeq ORF:	2202 bp
Locus ID:	15248
UniProt ID:	Q9R1Y5
Cytogenetics:	11 45.76 cM
Gene Summary:	Transcriptional repressor. Recognizes and binds to the consensus sequence '5-[CG]NG[CG]GGGCA[CA]CC-3'. May act as a tumor suppressor. May be involved in development of head, face, limbs and ventral body wall. Involved in down-regulation of SIRT1 and thereby is involved in regulation of p53/TP53-dependent apoptotic DNA-damage responses. The specific target gene promoter association seems to be depend on corepressors, such as CTBP1 or CTBP2 and MTA1. The regulation of SIRT1 transcription in response to nutrient deprivation seems to involve CTBP1. In cooperation with MTA1 (indicative for an association with the NuRD complex) represses transcription from CCND1/cyclin-D1 and CDKN1C/p57Kip2 specifically in quiescent cells. Involved in regulation of the Wnt signaling pathway probably by association with TCF7L2 and preventing TCF7L2 and CTNNB1 association with promoters of TCF-responsive genes. Seems to repress transcription from E2F1 and ATOH1 which involves ARID1A, indicative for the participation of a distinct SWI/SNF-type chromatin-remodeling complex. Probably represses transcription from ACKR3, FGFBP1 and EFNA1.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) has an alternate 5' terminal exon including the 5' UTR and 5' coding region, compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.