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 MC224854

Chd1 (NM_007690) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Chd1
Synonyms:	4930525N21Rik; AI851787; AW555109
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC224854 representing NM_007690
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATGGACACAGTGATGAAGAAAGTGTTAGAAATGGCAGCGGAGAATCAAGTCAGTCAGGTGATGATT
GTGGGTCAGCATCAGGCTCTGGATCTGGCTCGAGTTCTGGCAGCAGCAGTGACGGAAGCAGCAGCCAATC
CGGGAGCAGCGACTCTGATTCTGGCTCTGACTCAGGAAGTCAATCAGAGTCTGAATCAGACACATCCCGA
GAGAACAAGGTTCAAGCAAAACCACCAAAAGTCGACGGAGCCGAGTTTTGGAAATCTAGCCCCAGTATTC
TGGCTGTCCAGAGATCTGCAATGCTTAGGAAGCAGCCACAGCAGGCCCAGCAGCAGCGCCCAGCTTCATC
TAATAGTGGATCCGAAGAAGACTCGTCCAGCAGTGAAGACTCCGACGACTCGTCCAGCGGTGCCAAGAGG
AAGAAGCACAATGATGAAGACTGGCAGATGTCTGGGTCCGGATCTCCATCTCAGTCTGGTTCAGACTCAG
AATCTGAAGAAGAGCGAGATAAAAGCAGCTGCGACGGGACAGAGTCCGACTACGAGCCGAAAAACAAAGT
CAGAAGCCGAAAGCCTCAGAATAGATCTAAGTCAAAAAATGGGAAAAAAATTCTTGGACAAAAAAAGAGA
CAGATTGATTCATCTGAGGATGAAGATGATGAAGATTATGATAATGATAAACGAAGCTCTCGCCGCCAAG
CCACCGTCAATGTGAGCTACAAGGAGGATGAAGAAATGAAAACCGACTCCGATGACCTGCTGGAGGTCTG
CGGCGAGGACGTCCCTCAGCCTGAGGACGAGGAGTTTGAGACAATAGAGAGGGTTATGGATTGCAGAGTG
GGGCGGAAAGGAGCTACTGGTGCTACTACAACCATTTATGCTGTCGAAGCAGATGGTGACCCAAATGCAG
GATTTGAAAGAAACAAAGAGCCAGGAGACATACAGTATTTAATTAAGTGGAAAGGATGGTCTCACATCCA
CAACACATGGGAGACAGAAGAGACCCTGAAGCAGCAGAACGTTAGAGGGATGAAAAAATTGGATAATTAT
AAGAAAAAAGATCAAGAGACGAAACGATGGCTGAAAAATGCTTCTCCAGAAGATGTGGAATATTATAATT
GCCAGCAAGAGCTTACAGATGATCTACACAAACAGTATCAGATAGTGGAGCGCATAATTGCTCATTCCAA
TCAAAAATCAGCAGCTGGTCTTCCTGATTATTATTGCAAATGGCAGGGGCTTCCATACTCAGAGTGCAGC
TGGGAGGATGGAGCTCTCATTTCCAAAAAGTTTCAGACATGCATCGATGAATATTTTAGCAGGAATCAGT
CAAAAACGACACCTTTTAAAGATTGCAAAGTATTGAAACAAAGACCAAGATTTGTAGCTCTGAAGAAACA
ACCATCCTATATTGGAGGACATGAGGGCTTAGAACTGAGAGACTATCAGCTGAATGGTTTAAACTGGCTC
GCTCACTCTTGGTGCAAAGGAAATAGTTGCATACTTGCTGATGAAATGGGCCTTGGGAAAACAATACAGA

View online »

CGATCTCATTTTTGAACTATTTGTTCCATGAACATCAGTTATATGGGCCGTTTCTACTAGTTGTCCCGCT
CTCCACTCTGACTTCCTGGCAGAGGGAGATACAGACGTGGGCGTCTCAGATGAATGCTGTGGTTTACTTA
GGCGACATTAACAGCAGAAACATGATAAGAACTCATGAATGGATGCATCCCCAGACCAAACGGTTAAAAT
TTAATATACTTTTAACAACGTATGAAATTTTATTGAAGGATAAGGCATTCCTTGGTGGTCTGAATTGGGC
ATTCATAGGTGTTGATGAAGCGCATCGATTAAAGAATGATGATTCCCTTCTGTACAAAACTTTAATCGAC
TTTAAATCTAACCATCGCCTTCTGATCACTGGAACCCCTCTACAGAACTCCCTGAAGGAGCTCTGGTCAC
TGCTGCACTTCATTATGCCGGAGAAGTTTTCTTCATGGGAAGATTTTGAAGAAGAACATGGCAAAGGCAG
AGAATATGGTTATGCAAGCCTCCACAAGGAGCTTGAGCCATTTCTGTTACGCAGAGTTAAGAAAGATGTG
GAAAAATCTCTTCCTGCCAAGGTGGAGCAGATTTTAAGAATGGAGATGAGTGCTTTACAGAAGCAATATT
ACAAGTGGATTTTAACTAGGAATTATAAAGCCCTCAGCAAAGGTTCCAAGGGCAGTACCTCAGGCTTTTT
GAACATTATGATGGAGCTAAAGAAATGTTGTAACCATTGCTACCTCATTAAACCACCAGATAATAATGAA
TTCTATAATAAACAGGAGGCCTTACAACACTTAATCCGTAGTAGCGGAAAACTCATCCTTCTCGACAAGC
TGTTGATTCGCCTAAGAGAAAGAGGCAACCGAGTGCTCATTTTCTCTCAGATGGTGCGGATGTTAGACAT
ACTCGCAGAGTATTTGAAGTACCGCCAGTTCCCCTTTCAAAGATTAGATGGATCGATAAAAGGGGAGCTG
AGGAAGCAGGCTTTGGATCACTTTAATGCCGAGGGCTCAGAGGATTTCTGCTTTTTGCTTTCTACCCGAG
CTGGGGGTTTAGGCATTAACCTAGCCTCTGCTGACACCGTTGTTATATTCGATTCTGATTGGAATCCACA
AAATGATCTTCAGGCTCAGGCAAGAGCTCACCGAATTGGACAGAAGAAACAGGTGAATATATATCGCTTG
GTTACAAAGGGATCAGTTGAAGAAGATATTCTTGAAAGGGCCAAAAAGAAAATGGTTTTGGATCATCTTG
TTATTCAAAGAATGGATACCACTGGGAAGACAGTGCTGCACACAGGCTCGGCTCCGTCAAGTTCCACCCC
CTTCAATAAAGAGGAGTTATCCGCCATTTTAAAATTCGGTGCTGAGGAGCTCTTTAAGGAGCCTGAAGGA
GAGGAGCAGGAGCCACAGGAAATGGATATCGATGAAATCCTGAAGAGAGCCGAGACTCACGAGAACGAGC
CAGGCCCACTGAGTGTGGGGGATGAGCTGCTTTCTCAGTTTAAGGTTGCCAATTTTTCAAATATGGATGA
AGATGACATTGAATTGGAACCTGAAAGAAATTCAAAGAACTGGGAGGAGATCATTCCAGAAGAGCAAAGA
CGGCGACTAGAAGAGGAGGAGAGACAAAAGGAACTGGAGGAAATTTATATGCTCCCGAGAATGAGAAACT
GTGCAAAGCAGATAAGTTTCAATGGAAGTGAAGGGAGGCGGAGTAGAAGCAGGAGATATTCTGGATCTGA
TAGTGATTCAATCTCGGAAAGGAAACGGCCGAAGAAACGTGGGCGACCCCGCACTATCCCTCGGGAGAAT
ATTAAAGGATTTAGTGATGCGGAGATTCGGCGGTTTATCAAGAGCTATAAGAAATTTGGTGGCCCCCTGG
AGAGGTTAGATGCAATTGCTCGAGATGCTGAATTGGTTGATAAGTCAGAAACAGATCTCAGAAGACTAGG
AGAACTGGTGCATAATGGTTGTGTTAAAGCTTTAAAAGACAGTTCTTCAGGAACAGAGCGAGCAGGTGGC
AGACTTGGAAAAGTGAAGGGGCCAACATTCCGCATCTCTGGAGTCCAAGTGAATGCCAAGCTGGTCATTG
CCCATGAGGATGAGCTGATCCCTCTGCATAAGTCCATCCCTTCGGACCCGGAGGAGAGGAAGCAGTATAC
AATCCCCTGCCATACAAAGGCTGCGCACTTTGATATAGACTGGGGCAAAGAAGATGATTCTAATTTGTTA
ATTGGTATCTATGAGTATGGCTATGGAAGCTGGGAAATGATTAAAATGGATCCAGACCTCAGTTTAACAC
ACAAGATTCTTCCAGATGATCCTGATAAAAAACCACAAGCAAAACAGTTACAGACCCGTGCAGACTACCT
CATCAAACTACTTAGCAGAGATCTTGCAAAAAGAGAGGCTCAGAGACTTTGTGGTGCGGGAGGTTCAAAG
AGGAGAAAAACGAGAGCTAAAAAGAGTAAGGCAATGAAGTCCATCAAAGTGAAAGAGGAAATAAAGAGTG
ACTCGTCGCCCCTGCCTTCAGAGAAGTCTGACGAGGATGACGATAAACTGAATGACTCCAAGCCTGAAAG
TAAAGACCGATCCAAAAAGTCTGTAGTGTCCGATGCTCCCGTTCACATCACTGCGAGTGGAGAGCCCGTT
CCCATAGCTGAAGAGTCTGAAGAGCTGGATCAGAAGACATTCAGTATTTGTAAAGAAAGAATGAGACCGG
TGAAAGCAGCTTTGAAACAACTTGACAGGCCTGAGAAAGGCCTTTCAGAAAGAGAGCAGCTGGAACACAC
TAGACAGTGCTTAATCAAGATCGGAGACCATATCACTGAATGCTTGAAGGAATATTCCAATCCTGAACAA
ATTAAGCAGTGGAGGAAAAACCTGTGGATTTTTGTATCTAAGTTTACTGAGTTTGATGCAAGGAAATTAC
ATAAATTATATAAGCATGCTATTAAAAAACGACAAGAATCTCAGCAAAACAGTGACCAGAATAGCAATGT
TGCTACCACTCATGTGATTAGGAATCCAGATATGGAAAGGTTAAAAGAGAATACAAATCATGATGACAGT
AGCAGGGACAGCTATTCTTCTGACAGACACTTATCTCAGTACCATGATCATCACAAGGACCGCCATCAGG
GAGATTCTTATAAAAAGAGTGACTCTCGGAAGAGACCCTACTCCTCATTTAGCAATGGCAAAGACCACCG
CGAGTGGGATCACTACAGGCAAGACAGCAGGTACTATAGTGACCGAGAGAAACACAGAAAACTGGATGAC
CACAGGAGTCGAGAGCACAGGCCAAGTTTGGAAGGAGGCTTAAAGGACAGGTGTCACTCTGACCACCGAT
CTCACTCGGACCATCGAATGCACTCAGACCATCGCTCAAGCTCCGAGCACACACATCATAAATCCTCCAG
GGATTATCGGTATCTCTCAGATTGGCAGTTGGACCACCGAGCTGCCAGCAGTGGCCCTAGGTCACCTTTA
GATCAGAGGTCTCCATATGGCTCCAGGTCCCCATTTGAACATTCAGCTGAACACAGAAGTACGCCTGAAC
ACACCTGGAGTAGTCGGAAGACATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_007690
Insert Size:	5136 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_007690.3, NP_031716.2
RefSeq Size:	7918 bp
RefSeq ORF:	5136 bp
Locus ID:	12648
UniProt ID:	P40201
Cytogenetics:	17 8.95 cM

Gene Summary: ATP-dependent chromatin-remodeling factor which functions as substrate recognition component of the transcription regulatory histone acetylation (HAT) complex SAGA. Regulates polymerase II transcription. Also required for efficient transcription by RNA polymerase I, and more specifically the polymerase I transcription termination step. Regulates negatively DNA replication. Not only involved in transcription-related chromatin-remodeling, but also required to maintain a specific chromatin configuration across the genome. Required for the bridging of SNF2, the FACT complex, the PAF complex as well as the U2 snRNP complex to H3K4me3. Functions to modulate the efficiency of pre-mRNA splicing in part through physical bridging of spliceosomal components to H3K4me3 (By similarity). Required for maintaining open chromatin and pluripotency in embryonic stem cells (PubMed:19587682). Is also associated with histone deacetylase (HDAC) activity (PubMed:12890497).[UniProtKB/Swiss-Prot Function]