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Product datasheet for MC224854

Chd1 (NM_007690) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chd1 (NM_007690) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chd1
Synonyms:	4930525N21Rik; AI851787; AW555109
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
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

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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.
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]