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Product datasheet for MC225040

Chd5 (NM_029216) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chd5 (NM_029216) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chd5
Synonyms:	4930532L22Rik; AW060752; B230399N07Rik; CHD-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC225040 representing NM_029216
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGGGCCCGCTGGGCACCGAGGAGGAGCTGCCGCGGCTGTTCGCGGAGGAGATGGAGAACGAGGAGG
AGATGTCAGAAGAAGAAGACGGTGGCCTTGAAGGCTTTGAGGACTTCTTCCCTGCAGAGCCCGTGAGTCT
TCCCAAGAAGAAGCCGAAGAAGCTGAAAGAGAGCAAGTCCTCCAAAGGTAAAAGGAAGAAGAAAGAGGGG
AGCAATGACGAGATGTCAGACAACGAGGAGGACCTGGAAGAGAAGTCAGAGAGCGAAGGTAGCGACTACT
CCCCCACCAAGAAGAAGAAGAAGAAACTGAAGGAGAAGAAGGAGAAGAAGGAGAAGAAGGAGAAGCGGAA
AAAGAGGGGTGAGGATGAAGATGATAACGACGACGGAGGCTTGAAGGAGCCCAAGTCCTCGGGACAACTC
ATGGCGGAGTGGGGGCTGGACGACGTGGACTACCTGTTTTCTGAGGATGACTACCACACACTGACCAACT
ACAAAGCCTTCAGCCAGTTCCTCAGGCCCCTTATTGCCAAGAAGAATCCGAAGATCCCCATGTCCAAAAT
GATGACTGTCCTGGGGGCCAAGTGGCGAGAATTCAGCGCCAACAACCCGTTTAAGGGTAGCTCGGCAGCA
GCAGCTGCGGCGGCCGTGGCCGCGGCCGTGGAGACAGTGACCATTGCTCCTCCCTTGGCCATCAGTCCCC
AGCAAGTGCCCCAGACTCTGCCCATACGAAAGGCCAAGACCAAAGAGGGCAAGGGGCCCGGAGTGAGGAA
GAAGAACAAAGGCGCCAAAGATTCCAAGAAAAAGGGCAGGGGCAAGAGAGTGGCAGGGCTCAAGTTCCGC
TTCGGAGGGATCAGCAAGAGGAAGAAGGGTTCCTCGAGCGAGGAGGATGAACGGGAGGACTCAGACTTGG
ACAATGCCAGCATCCACAGCTCTTCTGTGCGTTCTGAGTGCTCTGCAGCTCTGGGCAAGAAGAACAAGAG
GAGGCGCAAGAAGAAGAGGATTGACGATGGTGACGGCTATGAGACAGACCACCAGGACTACTGTGAGGTG
TGCCAGCAGGGAGGCGAGATCATTCTCTGTGACACCTGCCCGAGGGCATATCACCTAGTCTGCCTGGACC
CGGAGCTGGAGAAGGCTCCAGAGGGCAAGTGGAGCTGCCCACACTGTGAGAAGGAGGGGATCCAGTGGGA
GCCGAAGGATGATGATGAAGAGGAGGAGGAGGGCGGCTGCGAGGAAGAGGAGGATGACCACATGGAGTTC
TGCCGCGTGTGCAAGGACGGTGGCGAGCTCCTGTGCTGTGATGCCTGTCCCTCCTCCTACCACTTGCACT
GCCTCAACCCGCCGCTGCCGGAGATACCGAACGGTGAATGGCTCTGCCCGCGCTGTACATGTCCCCCGCT
GAAGGGCAAAGTTCAGCGGATCCTACACTGGAGGTGGACAGAACCCCCGGCTCCCTTTGTGGTGGGGCTG

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CCAGGACCAGAGGTGGAGCCAGGCATGCCCCCGCCCAGGCCTCTGGAGGGCATTCCTGAGAGAGAGTTCT
TTGTCAAGTGGGCTGGTCTCTCCTACTGGCACTGCTCCTGGGTGAAGGAGCTACAGTTGGAGCTGTACCA
CACCGTGATGTATCGCAACTACCAAAGAAAGAATGACATGGACGAACCGCCACCCTTTGATTACGGCTCT
GGCGATGAGGATGGTAAGAGCGAGAAACGGAAGAACAAGGACCCTCTCTACGCCAAGATGGAGGAACGCT
TCTACCGCTACGGCATCAAGCCCGAGTGGATGATGGTTCACCGCATCCTGAACCACAGCTTTGACAAGAA
GGGGGACATACATTACCTGATCAAGTGGAAGGACCTGCCCTACGACCAGTGCACCTGGGAGATTGATGAG
ATTGACATTCCCTACTACGACAACCTGAAGCAGGCCTACTGGGGCCACAGGGAGCTGATGCTGGGGGAAG
ATGCCAGGCTGCCCAAGCGGCTGGTGAAGAAGGGCAAGAAGCTGAAGGACGATAAACAAGAGAAGCCACC
CGATACGCCCATCGTGGACCCCACAGTCAAGTTCGACAAGCAGCCGTGGTACATCGACGCCACAGGAGGC
ACGCTGCACCCTTACCAGCTGGAGGGCCTTAACTGGTTACGCTTCTCCTGGGCCCAGGGCACCGACACTA
TCCTGGCTGACGAGATGGGTTTGGGGAAGACAGTACAGACCATTGTGTTTCTCTATTCTCTGTACAAGGA
GGGCCACTCCAAGGGGCCTTACCTGGTCAGCGCGCCCCTGTCCACCATCATCAACTGGGAACGGGAGTTT
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AGAACGAGTTTTCCTTTGAGGACAACGCCATTCGCGGTGGCAAGAAAGTATTCCGCATGAAGAAGGAAGT
GCAGATCAAATTCCACGTGCTGCTCACCTCTTATGAGCTCATCACCATTGACCAAGCCATCCTGGGCTCC
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TCTTGAATAGCTACAAGATCGACTACAAGCTGCTGCTGACAGGGACCCCCCTCCAGAACAACCTGGAGGA
ACTGTTCCATCTCCTCAACTTCCTGACTCCAGAGAGGTTCAACAATCTGGAAGGCTTCTTGGAGGAGTTT
GCTGACATATCCAAGGAAGATCAGATCAAAAAGCTGCATGATCTATTGGGGCCGCACATGCTTCGGCGGC
TCAAGGCCGACGTGTTCAAGAACATGCCGGCTAAGACAGAGCTGATTGTCCGAGTGGAGCTGAGCCAGAT
GCAGAAGAAGTACTACAAGTTCATCCTGACTCGGAACTTTGAGGCGCTCAATTCCAAGGGGGGTGGCAAC
CAGGTGTCTCTACTCAATATCATGATGGATCTGAAGAAGTGCTGCAACCATCCGTACCTCTTCCCTGTGG
CTGCTGTGGAAGCCCCTGTACTGCCCAATGGCTCCTACGATGGCAGCTCCCTGGTCAAGTCTTCGGGGAA
GCTCATGCTATTGCAGAAGATGCTCAAGAAACTGCGGGATGAAGGGCACAGAGTGCTGATCTTCTCCCAG
ATGACCAAGATGTTGGACCTCTTGGAGGACTTCCTGGAGTACGAGGGCTACAAGTATGAGCGGATCGACG
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CTTCCTGCTCTCAACACGTGCCGGTGGCCTGGGCATCAACCTGGCCACAGCAGACACGGTCATCATCTAT
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AGGTCATGATCTATCGCTTCGTGACACGGGCCTCCGTGGAGGAGCGCATCACTCAGGTGGCCAAGCGTAA
GATGATGCTCACACACCTGGTGGTGCGGCCTGGCTTGGGCTCCAAGTCGGGCTCCATGACCAAGCAGGAA
CTGGATGATATCCTTAAGTTCGGGACAGAGGAGCTTTTCAAGGACGACGTGGAAGGCGATAACAAAGATG
TAGAAGACAGCAGTGTGATCCATTATGACGACGCAGCCATATCCAAGCTGCTGGATCGGAACCAGGACGC
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CGCGAGGAAGATGGCGTGGAGGAGGTAGAGAGGGAGGTGATCAAGCAGGAGGAGAACGTGGACCCTGACT
ACTGGGAGAAGCTGCTGCGCCATCACTATGAACAGCAGCAGGAGGACTTGGCCCGCAACCTGGGCAAGGG
CAAGCGCATCCGCAAGCAGGTCAACTACAATGATGCCTCCCAGGAGGACCAGGAGTGGCAGGATGAGCTC
TCGGACAACCAGTCGGAGTATTCCATCGGTTCTGAGGATGAGGACGAGGACTTTGAGGAGCGACCAGAAG
GGCAGAGTGGACGACGACAATCCAGGAGGCAGCTTAAGAGTGACAGGGACAAGCCCCTGCCTCCCCTTCT
GGCTCGGGTTGGGGGCAACATTGAGGTTCTGGGCTTCAATGCCAGACAGAGGAAGGCTTTTTTGAACGCC
ATCATGCGCTGGGGCATGCCGCCTCAGGATGCCTTCAACTCCCACTGGCTGGTGCGGGACCTTCGAGGGA
AGAGTGAGAAGGAATTTAGGGCCTATGTATCACTCTTCATGCGCCACCTGTGTGAGCCGGGCGCAGACGG
CGCGGAGACCTTCGCAGACGGCGTGCCCCGGGAGGGCCTGTCTAGGCAGCACGTGCTCACGCGTATTGGG
GTCATGTCGCTGGTTAGGAAGAAGGTGCAGGAGTTTGAGCATGTCAACGGCAAGTACAGCACCCCAGACC
TGGTCCCCGAGGGGGCCGAGGGCAAGAAGCCGGGCGAGGTCATCTCCTCAGACCCCAACACACCTGTGCC
TGCCAGCCCTGCACAGCTTCCACCGGCCCCACTGGGCCTGACAGACAAAATGGAAGCCCAGCTGGGCTAC
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TGGACAGAGTAGAGGGTGAAGACAAACATCAGAGCTCAGACAGCAAGGACAGGGCTCGGGAGGAGAGGAC
AGAAGAGGTGGAGAAGGCCCAGGGGTCTCCAGAGCAGCCACTGAAAGAGGAAGTGCTGCCGGACAAGGAG
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AGGAGAAGGAGCCCGGGGAGACTCAGCAAAACGGCGACAGAGAGGAAGATGAGGAAGGCAAGAAAGAAGA
CAAAAATGGGAAATTCAAATTCATGTTCAACATTGCAGATGGCGGTTTCACAGAGCTGCACACTCTGTGG
CAGAACGAGGAGCGGGCGGCTGTGTCCTCGGGGAAAATCTACGAAATCTGGCACCGCCGTCACGACTACT

GGCTGCTGGCAGGCATTGTGACGCATGGCTATGCCCGCTGGCAGGACATTCAGAATGACCCGAGATACAT
GATCCTAAATGAACCTTTCAAGTCTGAGATCCACAAGGGCAACTACTTGGAGATGAAGAACAAGTTTTTG
GCCCGTAGGTTCAAGCTGCTGGAGCAGGCGCTGGTGATTGAGGAGCAGCTCCGGAGGGCAGCGTACCTCA
ACATGACCCAGGATCCCAACCACCCAGCCATGGCGCTCAATGCTCGCCTGGCAGAGGTGGAGTGCCTTGC
CGAGAGCCACCAGCACCTATCCAAGGAGTCCCTCGCCGGAAACAAGCCTGCCAATGCTGTCCTGCACAAG
GTCCTAAACCAGCTGGAGGAGCTGCTGAGTGACATGAAAGCAGATGTGACACGCTTGCCCTCCATGTTGT
CACGCATCCCCCCGGTGGCCGCCCGTCTGCAGATGTCTGAACGCAGCATCTTGAGTCGCCTGACCAACCG
AGCTGGTGACCCCACCATCCAGCAGGGCGCTTTCGGCTCCTCTCAGATGTACAACAACAGCTTTGGGCCC
AACTTCCGGGGCCCTGGACCGGGAGGGATTGTCAACTACAACCAGATGCCCCTGGGGCCCTATGTGACTG
ACATCTAG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_029216

Insert Size: 5748 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_029216.2, NP_083492.2

RefSeq Size: 9375 bp

RefSeq ORF: 5748 bp

Locus ID: 269610

Cytogenetics: 4 E2

Gene Summary: Chromatin-remodeling protein that binds DNA through histones and regulates gene transcription. May specifically recognize and bind trimethylated 'Lys-27' (H3K27me3) and non-methylated 'Lys-4' of histone H3. Plays a role in the development of the nervous system by activating the expression of genes promoting neuron terminal differentiation. In parallel, it may also positively regulate the trimethylation of histone H3 at 'Lys-27' thereby specifically repressing genes that promote the differentiation into non-neuronal cell lineages. Tumor suppressor, it regulates the expression of genes involved in cell proliferation and differentiation. Downstream activated genes may include CDKN2A that positively regulates the p53/TP53 pathway, which in turn, prevents cell proliferation. In spermatogenesis, it probably regulates histone hyperacetylation and the replacement of histones by transition proteins in chromatin, a crucial step in the condensation of spermatid chromatin and the production of functional spermatozoa.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an in-frame exon, compared to variant 1. It encodes isoform 2 which is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.