

## Product datasheet for MC225439

### Chd7 (NM\_001081417) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chd7 (NM_001081417) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chd7
Synonyms:	A730019I05Rik; Cyn; Cyn; Dz; Edy; Flo; Lda; Mt; Obt; RP23-464N23.1; Todo; WBE1; Whi
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225439 representing NM_001081417 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGACCCAGGGATGATGAGTCTTTTTGGCGAGGATGGGAGTCTGTTTCAGCGAAGGCCTCGAAGGCC  
TCGGGGAATGTGGCTACCCCGAAAACCCCGTGAACCCCATGGGTGAGCAGATGCCCATAGACCAAGGTTT  
TCCCTCCTACAGCCATCCCTCCACCATCCTTACCTAATCAGAATCAAACCAAGTTGACCCATTTTGAT  
CACTATAGTCAGTATGAACAGAAGATGCATCTGATGGATCAGCCTAACCGAATGATGGGCAGCGCCCGG  
GGAACGGATTGGGTCTCCGCACTCACAGTATCACACCCCTCCCGTCCCGAGGTGCCACGGAGCGGG  
TGGTGGCGGTGATGGGAGTCTATCCCGCATCCAGAACGAAAGGCACGGGCAATCTTTTGTGGATGGC  
GGCTCCATGTGGGGCCCCGGGCGTTCAGGTACCAGACCAGATACGAGCCCCCTACCAGCAGCAGCAGC  
CGCAGCCGGCTCCTTCGGGGCCCCGGCACAGGGCCACCCCGCAGCAGATGCAGCAGATGGGCAGCTATCT  
GGCACGTGGGATTTCTCCATGCAGCAGCAGCGCCAGCCACAGCAGAGGATGGGCCAGTTTTCCCAAGGC  
CAAGAGGGCCTCAGTCAGGGAAGCCCTTTCATTGCCACCTCAGGACCCGGCCACCTGTGCGACATGCCCC  
AGCAGAGCCCCAGCATGGCCCCCTCCCTGCGCCACCCAGTGCAGCAGCAGTTCCACCATCACCCCGCTGC  
TCTCCACGGAGAATCCGTTGCCACAGTCCCAGATTCTCCCCAACCCCTCCTCAACAAGGGGCTGTCAGG  
CCACAAACCCTTAACCTTACTGTTCTCGGAACAGCAGTCCCCTCCCCTACTGTAACAACCTCAGGGCAGT  
ATTCTCGATATCCTTACAGTAACCTAAATCAGGGATTAGTTAACAGTACAGGGATGAATCAAATTTAGG  
CCTTACAAACAGTACTCCAATGAATCAGTCGGTACCAAGATACCCCAATGCCGTGGGATTCCTGTAAC  
AGTGGTCAGGGACTCGTGCACCAGCAGCCTATCCACTCCAGTGGTCACTGAACCAAATGAACACACAAA  
CTATGCACCCCTTACAGCCTCAGGGAACGTACGCCTCTCCACCTCCCATGTACCCATGAAAGCAATGAG  
TAACCCAGCAGGCAGCCGCTCCGCAAGTCCGCGGAGTGGGATGCCCATGGAAGTTGGCAGT  
TATCCAAATATGCCCCACCCCTCAGCCATCTCACCAGCCCCCTGGTCCATGGGAATCGGACAGAGGAATA  
TGGGCCCCAGAAACATGCAGCAGCCTCGTTTATGGGCATGTCTCGGCACCCAGGGAGCTGACCGG  
ACACATGAGACCAAATGGTTGCCTGGTGTGGCCTTGGCGATCCACAAGCAATCCAGGAACGACTGATA



[View online »](#)

CCTGGCCAACAGCACCTGGTCAGCAGCCATCTTCCAGCAGTTGCCAACCTGTCCTCCACTACAGCCCC  
 ACCCAGGCTGCACCAGTCTTACCTCCACATCCCCATCACCAGCCTTGGGCACAACCTCCACCCGTCACC  
 CCAGAATACCCACAGAAAGTGCCTGTGCATCAGCATTCTCCATCGGAGCCCTTCTAGAGAAGCCAGTG  
 CCGGATATGACCCAGGTGAGCCACAGAACGCTCAGCTAGTGAAGAGCGACGATTACCTGCCGTCGATAG  
 AGCAGCAGCCACAGCAGAAGAAGAAAAAGAAAAACAACCACATTGCTGCAGGGGATTCCAGTAAAGG  
 TTTTGGTAAAGATGACTCCCTGGTGGGTTGAAAACCAAGAAGTCCGAGGAATCGAAGGAGCCGAAGG  
 CAGGAAGAAAAAAGAAAAAGAAAAAGCCGAAGTCAAAAAGATCCGAAGGAATCGAAGGAGCCGAAGG  
 AGAAGAAAGAGCCCAAGACCCAAAAGCCCGAAGATCCCAAGAGCCAAAGGAAAGAAAGCAAAAAC  
 TGTACGCCAAAACCCAATCCAGCAAAAAGTCAAGTAATAAGAAAACCGATTGAGAAGCAAGTGTCTTG  
 AAGAAGAAGTCAACAAAGGAAAAACAGAAGTTCTGAAAATTCAGACTTGGACAAAACACCCCAACCGT  
 CCCCCGCTCCTGAAGAGGACGAAGACCCAGGTGTCCAGAAGAGCGGTCCAGCAGGCAGGTGAAGAGGAA  
 GCGATACACTGAAGATTTGGAGTTCAAGATTTCTGATGAGGAGGCAGATGATGCAGATGCTGCTGGAAGA  
 GACTCCCCATCCAACACCTCGCAGTCAGAGCAGCAGGAATCTGTTGATGCAGAAGGCCAGTGGTGGAGA  
 AGATTATGAGCAGCCGCTAGTAAAAAGCAGAAGGAATCTGGCAGGAGGTAGAAGTTGAGGAATTTTA  
 TGTGAAGTACAAAACCTCTCCTATCTTATTGTCAGTGGCGCTCAGTAGAAGATCTGAAAAAGACAAG  
 AGAATTCAGCAAAAGATAAAACGGTTTAAGTCAAAACAGGGCCAGAGCAATTCCTCTCAGAGATTGAGG  
 ATGACCTTTTTAATCCAGACTATGTGGAAGTTGACCGGATAATGGACTTTGCACGTAGCAGATGACCG  
 GGGCAGCCTGTGATTCACTACCTGGTGAAGTGGTGTCTACTCCCTTATGAAGACAGCACATGGGAGCTG  
 AAGCAGGACATAGATCAAACAAAGATCGAAGAGTTTAAAAACTCATGTCCAGGGAGCCGAAAACCGAGC  
 GTGTGGAGCGACCTCTGCTGATGACTGGAAGAAATCGGAGAGTTCAGGGAGTATAAAAACAATAACAA  
 ACTCAGGAATACCAGTTGGAGGGAGTAACTGGCTACTTTTCAATTGGTACAACATGCGAAACTGCATT  
 TTAGCAGATGAGATGGGTTTGGAAAAACGATCCAGTCCATTACGTTTCTCTATGAGATAACTTGAAG  
 GAATCCATGGCCCTTTTGTAGTAAATGCCCCATTGTCCACGATCCCAACTGGGAAAGGGAAATCCGAAG  
 CTGGACGGAGTTGAACGTGGTTGTGTACCATGGGAGCCAAAGCCAGCCGCTCGGACCATTCAGTTGTATGAA  
 ATGTACTTCAAAGATCCCGAGGTGCGAGTGATAAAGGGTCTATAAGTCCACGCCATCATCACTACAT  
 TCGAGATGATTCTGACGGACTGCTCAGCTGCGTAATATTCCTTGGCGCTGTGTGGTATCGATGAAGC  
 CCACAGGCTGAAGAACAGAACTGCAAGCTGCTGGAAGGGCTGAAGATGATGGACTTGAACACAAAAGTC  
 CTGCTGACCGGGACCCCGCTGCAGAACACTGTGGAAGAGCTTTCAGCCTGCTTCATTTCTTGGAGCCAA  
 GTCGCTTCCCTCAGAAACAACCTTTATGCAAGAATTTGGTGTCTGAAAACGGAAGAGCAGGTGCAAAA  
 ACTACAGGCTATTCTAAAGCCAATGATGTTGAGACGCTGAAAGAGGATGTAGAAAAGAACTTGGCCCC  
 AAAGAAGAGACTATTATGAAGTTGAGCTAACAAACATTCAGAAGAAATATTACCAGCCATCCTTGAGA  
 AGAATTTTACATTTCTTCCAAAGGTGGTGACAAGCTAACGTACCTAACCTTTTAAACACTATGATGGA  
 ACTGAGAAAATGCTGCAATCATCCCTACCTAATCAATGGTGTGAAGAGAAAATTTTGAAGAGTTTAAA  
 GAAACACACAATGCAGAGTCTCCAGATTTTTCAGCTCCAGGCAATGATCCAGGCTGCTGGCAGCTGGTGC  
 TGATTGACAAGCTGCTGCCAAAGCTGAAGGCTGGTGGCCACAGGGTGCTTATCTTCTCCAGATGGTGGC  
 CTGCTTGGACATCCTGGAAGACTATCTCATCCAGAGACGGTACCCATACGAAAGGATTGATGGCCGGGTC  
 AGAGGCAACCTCCGCCAGGCAGCTATTGACAGATTCTCCAACCTGATTCTGATAGGTTTGTGTTCTCC  
 TGTGCACACGGGCAGGAGGGCTAGGCATTAACCTACTGCTGCTGATACCTGCATCATCTTTGATTGAGA  
 CTGGAATCCCCAGAATGACCTCCAGGCTCAAGCTAGATGCCACAGAATAGGGCAGAGCAAACTGTGAAA  
 ATCTACAGGCTGATTACAAGGAACTCCTATGAAAGGGAGATGTTTGACAAGGCTAGTCTGAAGCTGGGTC  
 TGGATAAAGCCGTGTTGCACTCAGTGAAGTGAAGAGAAAATGCCACTAACGGGTTACAACAGCTGTCCAA  
 GAAGGAAATAGAAGACCTCCTGCGAAAGGGGCAATATGGTGCCTTATGGATGAAGAAGATGAAGGGTCT  
 AAGTTTTGTGAAGAGGATATTGACCAGATTCTCCTTCGACGAACCCACACTATCACCATTGAGTCTGAAG  
 GAAAAGGCTCCACATTTGCTAAGGCCAGCTTGTGCGTCTGGAATAGGACAGACATTTCTTGGATGA  
 CCCAAATTTCTGGCAGAAGTGGGCTAAGAAGGCTGAATTGGACATCGATGCCTTAAACGGGAGGAACAAC  
 CTGTTATTGACTCTCGAGTGAGGAAGCAGACCCGGCTATACAGCGCAGTGAAGGAAGACGAACTGA  
 TGGAGTTCTCCGACCTGGAAGCGACTCCGAAGAAAAGCCTTGTGCAAGCCACGGCGCCCCAGGATAA  
 GTCTCAGGGCTATGCCCGGAGCGAGTGCTCAGGGTAGAGAAGAACTCGTGTGTTTACGGCTGGGGCCGC  
 TGGACAGATATCCTGTCCATGGACGCTACAAACGTGAGTCTGACTGAGCAAGATGTGCAAAACCATCTGCA  
 GAGCGATCCTGGTGTACTGTCTCAACCACTACAGAGGGGACGAGAACATCAAAGCTTTATCTGGGACCT  
 CATCACACCCACGGCGGATGGCCAGACTCGGGCCCTGCTAAATCATTCCGGTCTGTGCGCCCTGTGCCG  
 AGGGGCCGAAGGGGAAGAAGGTGAAGGCCAGAGTACGCAGCCAGTGTGCACGATGCTCACTGGCTGG

CAAGCTGCAACCCAGACGCCCTGTTCCAGGAGGACAGCTACAAGAAGCACCTGAAGCACCCTGCAACAA  
 GGTCTGTGCGTGTCCGCATGCTGACTACCTAAGACAAGAAGTGATAGGAGACCAGGCAGAGAAGATC  
 CTCGAGGGCGCTGACTCAAGTGAAGCAGACGTGTGGATCCCTGAGCCATTCCATGCTGAGGTTCTACAG  
 ATTGGTGGGACCAGAGAAGCAGACAAATCCCTCCTAATTGGAGTGTAAACATGGCTATGAGAAGTACAA  
 TTCATGCGAGCTGACCTGCACTGTGCTTCTGGAACGAGTCCGAATGCCCGATGCCAAGGCCATCGT  
 GCCGAGCAGAGAGGACAGACATGCTAGCAGATGGTGGTGACGGTGGAGAATTTGATAGAGAAGTGAAG  
 ATCCTGAATATAAACCAACGAGAGCACCATTCAAAGATGAAATAGATGAATTTGCGAATTTCCCGCAGA  
 GGATAAGGAAGAGTCCATGGAGGTGCACAGCTCAGGCAAGCACAGCGAGAGCAATGCTGAGTTAGGTCAG  
 CTCTACTGGCCGAACACGTCAACCCTGACTACGCGTCTGCGCCGGCTCATTACTGCCTATCAGCGCAGT  
 ATAAAAGGCAGCAATGAGGCAAGAGGCCCTAATGAAGACGGACCGCGCAGACGGAGGCCCCGGGAGGA  
 AGTGAGAGCGCTGGAGGCAGAAAGGGAAGCTATTATCTGAGAAAAGGCAAAAGTGACGAGAGAAGAA  
 GAAGCGGACTTTTACCGGGTGTATCCACCTTCGGGGTATTTTTGACCCAGTGAACAGCAGTTTGATT  
 GGAACCAATTCGAGCCTTTGCCAGACTAGACAAAAGTCTGATGAGAGCCTGGGAAAGTATTCAGCTG  
 CTTTGTGGCCATGTGCAGACGGGTGTGTCGGATGCCTGCCAAGCCCGAGGACGAGCCACCTGACCTCGCC  
 TCCCTTATCGAGCCCATCACGGAGAACGAGCATCCAGGACACTGTACCGCATTGAACTGCTTCGAAGA  
 TCCGAGAGCAGGTCCTCATCACCCACAATAAGTGACAGGCTGAAGCTCTGCCAGCCCAGCCTAGATCT  
 GCCCGAGTGGTGGGAATGTGACGGCACGACAGGGACCTGCTGGTGGGTGCTGCTAAGCACGGGGTCAAGC  
 CGGACAGACTATCACATCCTCAACGACCCTGAGTTGTCCTTCTTAGATGCACACAAAAGCTTTGCTCAGA  
 ACCGTGGGGCCAGTACCGTCCCTCCTTTGAATACTCTGGCCATGGGCTTTGGCCAGACTCCTCCAGTCAT  
 TTCCTCTGCTCACGTTACGAAGAAAAGGCAATGGAGCAGGCTGAAGGCAAGGCAGAGGAGTGTGAACAC  
 TCACCGGCCAAAGAGAGGTCCGATGGGAAAAGAGGGAAGAAGAAGCAGGCGGGGCAAGGATGGCAAGC  
 AGGAATGTGAGGTGAGGCCAGCTCTGTGAAGGGTGAACCTCAAAGGGTGGAGGGCAGTGCAGACCCTGG  
 TCCAAGTCTGTCTCAGAGAAGGGCTCAGAAGAGGACGAAGAAGAGAAGCTGGAGGACGATGATAAGTCTG  
 GAGGAGTCGTCGAGCCAGAAGCAGGAGCCGCTCTCGAGAGGGAAGACTTTGATGAAGAAAAGCAATGCTT  
 CTCTGAGCACTGCTAGGGATGAAACCCGAGATGGATTCTACATGGAGGATGGAGATGCTTCGGTGGCTCA  
 GCTCCTTCATGAACGAACATTTGCCTTCTCCTTTTGGCCCAAGGACAGAGTAATGATAAACCGATTAGAC  
 AACATCTGTGAAGCTGTGTTGAAAGGCAATGGCCAGTAAATCGCGCCAGATGTTTGATTTCCAGGGCC  
 TTGTCCCTGGGTACCCACCCTCCGCCGTGGACAGTCCCTGCAGAAGAGGAGCTTTGCCGAGCTCTCTAT  
 GGTGAGCCAGGCCAGCATCAGTGCAGCGAGGACATCACACGCTCCTCAGTTGTCCAAGGATGATGCC  
 CTCACCTGTCTGCTCCCTCGCCAGCGGGCGGAGGAGAAGGAAAGTTGAAATCGAGGCTGAAAGAGCTG  
 CCAAGAGGAGAAACCTTATGGAGATGGTTGCCAGCTTCGAGAGTCTCAGGTGGTCTCAGAAAATGGACA  
 AGAAAAAGTTGTGGACTTATCAAAGGCCTCGAGAGAGGCAACAAGCTCTACCTCAAATTTCTCATCTCTT  
 ACTTCAAAGTTTATCTTGCCATAATGTCTCCACGCCAGTGTCTGATGCCTTTAAGTCTCAGATGGAGCTGC  
 TCCAAGCAGGCCCTTTCACGCACACCCACAAGGCATATGCTCAATGGCTCCCTGGTGGATGGAGAGCCCC  
 CATGAAGAGGAGGCGAGGAGGAGGAAAAACGTGGAGGGCCTCGACCTACTTTTCATGAGCCACAAAACGG  
 ACGCCGTTAAGTGCAGAGGATGCTGAGGTGACCAAAGCTTTTGAAGAAGATATAGAGACCCACCAATAA  
 GAAACATTCCTTCTCCTGGACAGCTGGACCCCGACACCCGGATCCCTGTGATAAACCTTGAAGATGGGAC  
 TAGGCTGGTGGGAGAAGACGCTCCTAAAAACAAGGACTTGGTTGACTGGCTGAAGCTGCACCCACCTAC  
 ACTGTCGATATGCCGAGTTATGTACCAAAGAACACAGACGTGCTGTTTTCTCGTTTCAGAAAACCGAAAC  
 AGAAAACGACATAGATGTCGAAATCCTAATAAATTGGATATTAACACTTTGACAGGAGAAGAAAGGGTTC  
 TGTTGTTAACAACGAAATGGGAAGAAGATGGGTGGAGCCATGGCCCTCCAATGAAGGACCTGCCCAGG  
 TGGCTGGAGGAGAACCCTGAGTTTGTGTCGCTCCAGACTGGACCGATATAGTCAAGCAGTCTGGTTTTG  
 TTCCCAGTCAATGTTTGACCGTCTCCTACTGGACCTGTGGTGCGGGGAGAAGGAGCCAGCAGGAGAGG  
 ACGGAGGCCAAAGAGCGAGATCGCCGAGCAGCCGCGCGGCTGCTGCTGTCGCTCTACTTCAGGGATC  
 AACCTCTGTTGGTGAACAGCTGTTTGTGGGATGGACCTGACAAGCCTTCAAGATCTCCAGAACCTCC  
 AGTCCCTCAGCTGGCAGGGCTCATGGGCTCCCTCCAGGACTGGCCACAGCTGCCACCGCCGAGGCGGA  
 TGCGAAGAGCCCCGCCAGTGTGCCCTGATGCTGCCAGGATGGCGGGCCTGCCAAGCTGTTCCGGC  
 TTGGGCGGGCTGCTGAACAACCCTCTCTCAGCTGCTACTGGAAACACCACTACTGCTTCAAGTCAAGGAG  
 AGCCAGAGGATGGCACTTCAAAGCGGAAGAGAAGGAAACGACAATGAAGACGAGAACCAGACTCTGA  
 GAAAAGCACAGACACCGTTTCGGCTGCTGACTCCGCGAACGGATCTGTTGGTGTGCTACTGCCCGGGCT  
 GCGTTACCCTCCAACCGCTGGCCTTCAACCTTTCTCCTGTCCACCATGGCCCCAGGCCCTTCTTACC  
 CATCCATGTTTCTACCTCCAGGACTGGGGGATTGACACTGCCTGGCTTCCAGCACTGGCGGGACTCCA

AAACGCCGTGGGTACCAGCGAAGAAAAGGCTGCTGACAAGGCCGAGGGAGGGCCCTGTAAGACGGAGAG  
ACCCTGGAGGGCAGCGATGCCGAGGAGAACCTGGACAAGACTGTAGAGTCTCCATCTTGGGAAGACGAGG  
TTGCACAGGGTGAAGAGCTGGACTCCCTCGAAGCGGGGATGAGATAGAAAACACCGGAAACGACGAGTA  
A

ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA  
TTACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1657\\_d12.zip](https://cdn.origene.com/chromatograms/ja1657_d12.zip)

**Restriction Sites:** SgfI-NotI

**ACCN:** NM\_001081417

**Insert Size:** 8961 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\\_001081417.1](#), [NP\\_001074886.1](#)

**RefSeq Size:** 9444 bp

**RefSeq ORF:** 8961 bp

**Locus ID:** 320790

**Cytogenetics:** 4 3.68 cM

**Gene Summary:** This gene encodes a protein containing two chromodomains and an ATP-binding helicase domain that functions as a regulator of transcription. Mutations in this gene result in an array of development defects, including inner ear problems. Mice defective for this gene exhibit many of the clinical features of the CHARGE syndrome caused by mutations in the homologous gene in human. [provided by RefSeq, Sep 2015]