

## Product datasheet for **SC101997**

### CHD3 (AK096555) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHD3 (AK096555) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHD3
Synonyms:	Mi-2a; Mi2-ALPHA; ZFH
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for AK096555, the custom clone sequence may differ by one or more nucleotides

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TTAGCCTCTAGGACTTGTGCAAGCCAACCCCTCATCCATGTCTGATAGCATTACATCCGTGCCCAATAGA
GGGACCTGCCCCAGCCTCTGTGTCCCTCCACACAGTGGGGCCTTCTCACTGGCAGTGGAACTGCATGCC
TGCCATACTGCTTAACATCATCCAGTTAGGGCCCTTGGACTGTGAATGCACCATACAGATCCCTGGCTGT
GATCAAACAAATCACATTCCCTCACATGTGTTTACCCCATAAAGGCAGAACTACCACCCATCCAACCCCT
CTGGCCTTACCCCATGAAACTTCCCTTTGACCTTCGACCTTTCCTCTACCCCTCTCACCTTGCCATTG
ATAGAGATTATATCCCAAGGCCCTTAACCATCTAATCCTGCCTGGTGTAGTCACTGACTCCTGGCCCT
TTGATCCCTGTTCTAATTCCTTGAATCTGTAATACTGACCTTCTAACCTCCCTCTCCCTTACATATTA
AACCGTGATTCTTAAAGCTTTGACACTTACCACCTCCCATGCCTCCTGACTATTTCTCCCATCATCC
CCAACCCCAAACCTTGCTCTTCCAGTATGAGATGTTCTGACAACCTCCCGCCCCCATGTCTTCAATGTC
CCCCCATCTTCTTTCTCCATGCTCCCTTTTCTTTCTTTCTTTCTTCTCCATCTGTCTTCTGTGGTAATC
TGGTCTCTGTCTCTTTTCTGACACTTTTTCTTTTCCCTGAGTTGCTTCTGTTTTCCATCTACTTCT
TTACTTTCTTGATCTCTGGTCTTTGACATCTGTGTTCTCCTCTCTCGCTTTTTCTGGCTGTATCTG
TCCATCTGATGCCTCTTTTTCTGGCTCCATCTCTGTATTTCCCTGTCTTTCTTGGCCCTTTTCTCTC
TGTGGCCCGGGCCAGTTCTGAACCAGCTGGAGGAGTTGCTGAGCGACATGAAGGGCGGAGTGAACCCGC
CTGCCAGCCACGCTGTCCCGAATACCCCATCGCAGCCCGCCTTCAGATGTCCGAGCGCAGCATCTCA
GCCGGCTGGCCAGCAAGGGCACGGAGCCTACCCACACCCGGCCTACCCGCCGGTCCCTACGCTACACC
TCCGGGGTACGGGGCGGCCTTACGCGCCGACCCGTAGGGGCCCTGGCCGCCGAGGCGCAATTACAGC
CAGATGCCTGCAGGTCTTTCATCACAGCCGCCACCAACGGCCCTCCAGTCTTGTGAAGAAGGAGAAGG
AAATGGTGGGGCATTGGTGTGACAGCGGCTGGATCGGAAGGAGCCCGAGCCGGGGAGGTGATCTGTAT
AGACGACTGACTGGATCCAGGCCTGCCCTTACCCAGGCCCGTCCCGAGGCCGACCCCAAGTCAAG
CGCTGGGGCCTGTGCCAGCCCTCCACCTTCCCAACCCCTGGGCCATCACTGGGCTAGGAACCCCTTGT
CCCCTCTGCGACTCTCTCTTCAAGAAGGGCCCTTGTCTTTCTCCACTCCCACACACCTTTCCACC
AAGCCTGAAGACTGTGCTGGTGAAGAAGTCTGGGTGGGAGATGGCTGGCAGGGTCTTCCAAGTACCT
TCCTCCCACACTGCCAAGTATACACAACCTCCAGTAAATGGTGTGGGGAGGAAAGAGGTGGAGCCTCC
CCAGCCGTTTCCCTGCAGAATCAGCTCTGTCTCATGTGGAAGTGGAGAATCAGCCTTGCCCTTGTAG
GAACTTTTGTGGGAAGAGAGCTTTGAAGAGAGGAGGGGACTTTAGAGAGGGATGAAAATGAGCCCTGG
GAGGGAGGAAGGGACGAGGAGGGTGGTGCATGTTACCGTCCCCTACCTCTCCCACGTGGAGGGTGG
GCAGTTATGAGGGAGGAAGTCAACTGCTGTTACAGCCTCAGAATAAAGGTGCCGTTCACTGGCTCAGTTAC
CTCCTGTGTACCGGCATCTTGTGTTGGGAATGTTCCCCCTCCCTAGGGACCAAGGACCACCCCTACAAA
AAGAGTAATGGTTGGGTGATACTCCCTCAAGCCAAAGAGGAGCTCCCAACCTGTTCTAGGGACCCAGGT
AACCTAGAAGGGTGGGAGAGAATACAATGGGCCAGATGTGGTGGAAAGCCAGCTCTGGGGCTCAGGTTCC
TGGAAGACTTCTACTACCTCCCTCCTCAAGGCCTGGATACAGACTAAATTTGTATAAGTCAGGCAGGGG
ACCTAGTCAGGGTCTTGGGAGCTACCTTGTGTTGGGACCAGAGCAAAAATAGTGGAGGGCAGGCTAGGGA
AATGTGGGCACATCCCCCTCCAGGAGGGGCCGGGAGAGTGGCAGTTTGCATGGCGAACCCCACTT
CCTCTTTGCTGCCATTCACTTTTCTGCTGCCCTTTCCAGTCTCTCTCACACCACTCTGCTGTG
CCTGATCCCCTCTCTGTATCAGGTTTATTGGTGTACATATAAATTATACTTTCTTTTC
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for AK096555 unedited  
 TCCCATTTGTATACGACTCACTATAGGCGGCCGCGAAATTCGCACGAGGCAGCCGCCACC  
 AACGGCCCTCCAGTGCTTGTGAAGAAGGAGAAGGAAATGGTGGGGCATTGGTGTGACAG  
 GGGCTGGATCGGAAGGAGCCCGAGCCGGGAGGTGATCTGTATAGACGACTGACTGGAT  
 CCCAGGCTGCCCTTACCCAGGCCCGTCCCCGAGGCCGACCCCAAGCTCAAGCGCTGG  
 GGCTGCTGCCAGCCCTCACCTTCCCCACCCCTTGGGCCATCACTGGGCTAGGAACCC  
 TTTGCCCTCTCTGCAGCTCCTCTTCAAGAAGGGCCCTTTGTCTTTCTCCACTCCCAC  
 ACACCTTTCCCAAGCCTTGAAGACTGTGCTGGTGAGAAGAAGTCTGGGTGGGAGATG  
 GCTGGCAGGGTCTTCCAAGTACCTTCTCCACACTGCCAAGTATACACAACCTTCCCACT  
 AAATGGTTGTGGGGAGGAAAGAGGTGGAGCCTCCAGCCGTTTCCCTGCAGAATCAGCTC  
 TGTCTCATGTGGAAGTGGAGAATCAGCCTTGCCTGGCCTTATAGAACTTTGTGGGAAG  
 AGAGCTTTGAAGAGAGAGGGGACTTTANAGAGGGATGAAATGAGCCCTGGAGGGAGG  
 AANGGACCAAGAGGGGTGGCTGCATGTTACCGTCCCCTACCTTCCCACGTGGAAGTT  
 GGGAGCAGTATGAAGGAGGAAGTCAACTGCTGTTACGCTCACAATAAAGTCCCGTCA  
 CTGGCTCAAGTACTTCTGTGGCCCGGCATCTTGTGTTTGGGAAGTTCCCCCTCTAT  
 GGACAAAGAGCCACCCTACAAAAAAGTATGGGTGGGTGATACTTCTCCAGCCAAAA  
 AGAGCTCCCCACCTGTCTTAGGACCCACGTAACAAAAGTGGGAGAAATCCAGGGCCCC  
 AATTGGGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for AK096555 unedited  
 NTTGGTACTCTATGNACCCGCGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTT  
 AAAGGAAAGTTAATTTATGTACAACCAATAAACCTGATACAGAAGAGGGGATCAGGAC  
 AGACCAGGAGTGGTGTGAAGAGAGACTGGGAAAGGGGCAGCAAGAAAGTGAAGGGGAG  
 CAAAGAGGAAGTGGGGGTTCCGCATGCAAACTGCCACTCTCCCCGGCCCTCCTGGGAG  
 GGGGGATGTGCCACATTTCCCTAGCCTGCCCTCCACTATTTGTCTGGTCCCAACGAC  
 AAGGTAGCTCCCAAGACCCTGACTAGGTCCCCTGCCTGACTTATACAAATTTAGTCTGTA  
 TCCAGGCTTGAGGAGGGAGGGTAGTAGAAGTCTTCCAGGAACCTGAGCCCCAGAGCTGA  
 GCTTCCACCACATCTGGCCATTGTATTCTCTCCACCCTTCTAGGTTACCTGGGTCCCT  
 AGAACAGGTTGGGAGCTCCTCTTTGGCTTGAGGGAGTATCACCAACCAAGTACTCTTTT  
 TGTAGGGTGGTCTTGGTCCCTAGGGAGGGGGAAACATTCACCAACACAAGATGCCGGTA  
 CACAGGAGGTAAGTGAAGCAGTGAACGGACCTTTATTCTGAGGCTGAACAGCAGTTGAC  
 TTCTCCCTCATAACTGCTCCACCCTCCACGTGGGGAGAGGTAGGGGACGTAACATGCA  
 GNCACCCCTCCTCGTCCCTTCTCCCTCCAGGGCTCATTTTCATCCCTCTCTAAAGTCCC  
 CCTCTCTCTTCAAAGCTCTTCCCCACAAAAGTTCTAAAGGCCAGCAAGGCTGATT  
 CTCCTACTCCCATGAGACAGAGCTGATTCTGCAGGAAACCGCTTGGGGAGA

**Restriction Sites:**

NotI-NotI

**ACCN:**

AK096555

**Insert Size:**

1300 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:** [AK096555.1](#)

**RefSeq Size:** 2510 bp

**RefSeq ORF:** 2510 bp

**Locus ID:** 1107

**Cytogenetics:** 17p13.1

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a member of the CHD family of proteins which are characterized by the presence of chromo (chromatin organization modifier) domains and SNF2-related helicase/ATPase domains. This protein is one of the components of a histone deacetylase complex referred to as the Mi-2/NuRD complex which participates in the remodeling of chromatin by deacetylating histones. Chromatin remodeling is essential for many processes including transcription. Autoantibodies against this protein are found in a subset of patients with dermatomyositis. Three alternatively spliced transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008]