

Product datasheet for RC221575

CHD1 (NM_001270) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHD1 (NM_001270) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHD1
Synonyms:	CHD-1; PILBOS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221575 representing NM_001270. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAATGGACACAGTGATGAAGAAAGTGTAGAAACAGTAGTGGAGAATCAAGCCAGTCGGATGATGAT
TCTGGGTCAGCTTCAGGCTCTGGATCTGGTTCGAGTTCGGAAGCAGTAGTGATGGAAGCAGTAGCCAG
TCAGGTAGCAGTGACTCTGACTCCGGATCTGAATCAGGCAGTCAGTCAGAGTCTGAGTCAGACACTCC
CGAGAAAACAAAGTTCAGCAAAACCACCGAAAGTTGATGGAGCTGAGTTTTGAAATCTAGTCCTAGT
ATTCTGGCCGTTCCAGAGATCTGCAATCCTCAAGAAGCAGCAACAGCAGCAGCAACAACAACATCAA
GCCTCATCTAATAGCGGATCAGAAGAGGATTCCTCTAGCAGTGAAGATTCGGATGACTCATCAAGTGAG
GTCAAAAAGGAAAAAGCATAAAGATGAAGATTGGCAAAATGTCTGGGTCAGGATCTCCATCTCAGTCTGGT
TCAGATTCAGAATCTGAAGAAGAGAGAGAGAAAAGCAGTTGTGATGAAACAGAATCTGATTATGAGCCA
AAAAACAAAGTCAAAAGCAGAAAACCTCAAAATAGATCTAAGTCAAAAAATGGAAGAAGATTCTTGGGA
CAAAAAAGAGACAGATTGATTCATCTGAGGAGGATGATGATGAAGAAGATTATGATAATGATAAAAAAG
AGTTCTCGTCGCCAAGCAACTGTTAATGTTAGCTATAAGGAGGATGAAGAATGAAAACAGATTCTGAT
GACCTACTGGAAGTCTGTGGAGAGGATGTTCTCAACCTGAGGAAGAGGAATTTGAAACCATAGAAAAGA
TTTATGGATTGTCGGATTGGGAGAAAAGGAGCTACTGGTGCTACTACAACCATCTATGCAGTTGAAGCA
GATGGTGACCCAAATGCAGGCTTTGAAAAAACAAGAACCAGGAGATTTCAGTATTTAATTAATGAAATGG
AAAGGATGGTCCCATATCCACAACACTTGGGAGACAGAAGAACCCTCAAGCAGCAGAATGTTAGAGGA
ATGAAAAAATTGGATAATTATAAGAAAAAAGATCAGGAAACAAAAAGATGGTTGAAAAATGCCTCTCCA
GAAGATGTGGAATATTATAATTGCCAGCAAGAACTTACAGATGATCTACATAAACAGTATCAAATAGTG
GAACGTATAATTGCTCATTCCAATCAAAAGTCAGCAGCTGGTTATCCTGATTATTACTGCAATGGCAG
GGCCTTCCATACTCAGAGTGCAGCTGGGAAGATGGAGCTCTCATTTCAAAAAGTTTCAAGCATGCATT
GATGAGTATTTAGCAGGAACCAATCAAAAACCACTCCTTTTAAAGATTGCAAAGTATTAACAACAAAGG
CCAAGTTTGTAGCCCTGAAGAAGCAGCCATCCTATATTGGAGGACATGAGGGCTTAGAATTAAGAGAT
TATCAACTGAATGGTTTAAATTGGCTTGCTCATTCTTGGTGCAAAGGAAATAGTTGCATACTCGCTGAT
```



[View online »](#)

GAAATGGCCTTGAAAAACAATACAGACGATCTCATTCTGAATTATTTGTTTCATGAACATCAATTA
TATGGACCTTTTTTATTGGTAGTACCGCTCTCCACTCTTACTTCTGGCAAAGGGAAATTCAGACTTGG
GCTTCTCAATGAATGCTGTGGTTTATTTAGGTGACATTAACAGCAGAAACATGATAAGAATCATGAA
TGGACGCATCATCAGACCAAACGGTTAAAAATTAATATATTGTTAAACAATTAATGAAATTTATTA
GATAAGGCATTCCTTGGAGGTCTAAATGGGCATTTATAGGTGTTGATGAAGCACACCGATTAAAGAA
GATGACTCCCTTCTGTATAAACTTTAATAGATTTTAAATCCAATCATCGTCTCCTTATCACTGGAAC
CCTCTACAGAATCCCTCAAAGAGCTCTGGTCTTTGCTACATTTTATTATGCCAGAAAATTTTCTTCC
TGGGAAGATTTTGAAGAAGAACATGGCAAAGGGAGAGAATATGGTTATGCAAGCCTTCAACAAGGAGCTT
GAGCCATTTCTGTACGCCGAGTTAAGAAAGATGTGAAAAATCTCTTCTGCCAAGGTTGAGCAGATT
TTAAGAATGGAATGAGTGCTTTACAGAAACAATATTACAAATGGATTTTAACTAGGAATTACAAAGCC
CTCAGCAAAGGTTCCAAGGGCAGTACCTCAGGCTTTTTGAACATTATGATGGAGCTAAAGAAATGTTGT
AACCATTTGCTACCTCATTAAACCACCAGATAATAATGAATTCTATAATAAACAGGAGGCCTTACAACAC
TTAATTCGTAGTAGCGGAAAATGATTCTTCTTGACAAGCTATTAATTCGCCTAAGAGAACGAGGCAAT
CGATTCTTATTTTTTCAAAATGGTGGGATGTTAGATATACTGCAGAATATTTGAAATATCGTCAA
TTCCCTTTCAAAGATTAGATGGATCAATAAAAGGAGAACTGAGGAAACAAGCTTAGATCATTTTAAAT
GCTGAGGGATCAGAGATTTTTGCTTTTTGCTGTCCACAAGAGCTGGAGGTCTAGGGATTATTTAGCC
TCTGCTGACACTGTTGTTATATTTGATTCCGATTGGAATCCACAGAATGATCTTCAGGCACAGGCTAGA
GCCCATCGAATGGGCAAAGAAACAGGTGAATATTTATCGTCTAGTTACAAAGGATCAGTTGAAGAA
GATATTCTTGAAGGGCGAAAAAGAAAGATGGTTTTAGATCATCTTGTAAATCAAAGAATGGACAACT
GGGAAGACAGTACTACATACAGGTTCTGCCCATCAAGTTCTACTCCTTTCAATAAAGAAGGTTATCA
GCCATTTAAAGTTTGGTGTGAAGAATTTTTAAGGAACCTGAAGGAGAAGAACAAGAGCCCCAGGAA
ATGGAATAGATGAAATCTTGAAGAGAGCTGAACTCATGAAAATGAACCAGTCTTTAACTGTAGGA
GATGAATGCTTTCCAGTTCAAGTTGCCAATCTCAATATGGATGAGGATGACATGAGTTGGAA
CCTGAAAGAAATTCAAAGAATTGGGAGGAAATTTCCAGAAGATCAAAGAAGACGATTAGAAGAAGAA
GAAAGACAAAAGGAATTTGAAGAATTTATATGCTCCCAAGAATGAGAAATGTGCAAAACAGATTAGT
TTCAATGGAAGTGAAGGGAGGCGCAGTAGAAGTAGGAGATACTCTGGATCTGATAGTGATTCCATCTCA
GAAGGGAAAAGGCCAAAGAAACGTGGAAGACCACGGACTATTCTCGGGAGAATATAAAGGATTTAGT
GATGCAGAAATAGCGGTTTATCAAGAGCTATAAGAAATTTGGTGGTCTCTGGAAAGATTAGATGCA
ATTGCTCGAGATGCTGAGTTAGTTGATAAGTCAGAAACAGACCTTAGACGACTGGGAGAATTGGTACAT
AATGGTTGCATTAAGCATTAAAGGATAGTTCTCAGGAACAGAACGAACAGGTGGTAGACTCGGAAAA
GTGAAGGGTCCAACATTCGAATATCAGGAGTACAGGTGAATGCCAACTAGTCATCTCCATGAAGAA
GAATTAATACCTTGCACAAATCCATTCCTTCTGATCCAGAAGAAAGAAAGCAGTATACTATCCCATGC
CACACAAAGGCAGCTCATTGATATAGACTGGGGCAAAGAAGATGATTCCAATTTGTTAATTGGCATC
TATGAATATGGATATGGAAGCTGGGAAATGATTAATGGATCCTGACCTCAGTCTAACACACAAGATT
CTTCCAGATGATCCCGATAAAAAACCAAGCAAAACAGTTGCAGACCCGTGCAGACTACCTCATCAAA
TTACTTAGTAGAGATCTTGCAAAAAAGAAGCTTTTCTGGTGGGGAAGTTCAAAGAGGAGAAAAGCA
AGAGCTAAGAAGAATAAAGCAATGAAGTCTATAAAAAGTGAAGAGGAAAATAAAGAGTGATTCTTCTCCT
CTGCCTTCAGAGAAGTCTGATGAAGATGATGATAAATTGAGTGAATCCAAGTCTGATGGTAGGAAAGA
TCCAAGAAATCTTCAGTGTGAGTGTCCAGTTTCAATACAGGCAAGTGGTGAACCAGTCCCATTCT
GAAGAATCTGAAGAGCTGGATCAGAAGACATTCAGCATTGTAAAGAAAGAATGAGGCCTGTTAAAGCA
GCTTTGAAAACACTTGATAGGCCTGAGAAAGGCCTTTTCAGAAAGAGAAACAATAAGACATACTAGACAA
TGTTTAAATAAAAAATGGAGACCATATCACAGAATGTCTAAAAGAGTATACAAATCCTGAACAAATTAAG
CAATGGAGAAAAAACCTGTGGATTTTTGTATCTAAGTTTACTGAATTTGATGCAAGAAAATACATAAA
TTATATAAGCATGCTATTAAAAAACGGCAGGAGTCTCAGCAAACAGTGATCAAAACAGCAACTTGAA
CCTCACGTGATTAGAAAATCCAGATGTGAAAGATTAAGAGAGAATACAAATCACGATGATAGCAGCAGG
GACAGTTATTCTCTGATAGACACTTAACTCAGTACCATGATCATATAAAGACCGACATCAGGGAGAT
TCTTACAAAAAAGTGATTCCAGGAAAAGACCCTATTCTTTTTAGTAATGGTAAAGACCATCGTGAT
TGGGATCACTACAAGCAAGACAGCAGATATTACAGTGACAGAGAGAAACAGAAAACCTGGATGATCAC
AGGAGTAGAGATCACAGGTCAAATTTGGAAGGAAGTTAAAAGATAGATCTCATTCTGATCATCGTTCT
CACTCAGATCATCGGTTACATTCAGACCACCGGTCAAGTTCTGAATATACGCACCATAAATCTTCCAGG
GATTATAGGTATCACTCAGACTGGCAAATGGACCACAGAGCTTCCAGCAGTGGCCCTAGGTCACTACTA
GATCAGAGATCTTATGGCTCCAGATCTCCATTTGAACATTCAGTTGAACACAAAAGTACACCGGAGCAT

ACCTGGAGTAGTCGGAAAAACA
 ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGCGCCGC

Protein Sequence:

>Peptide sequence encoded by RC221575
 Blue=ORF Red=Cloning site Green=Tag(s)

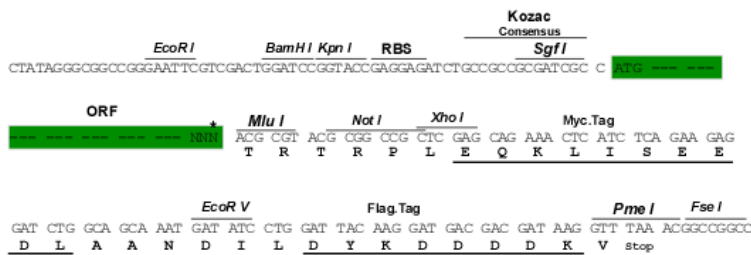
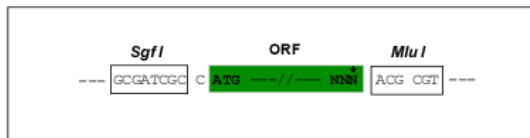
MNGHSDEESVRNSSGESSQSDDDSGSASGSGSGSSSSGSSSDGSSSQSGSSSDSDSGSESGSQSESESDTS
 RENKVQAKPPKVDGAEFWKSSPILAVQRSAILKKQQQQQQQQHQASSNSGSEEDSSSSSESDSSSE
 VKRKKHKDEDWQMSGSGSPSQSGSDSEEEEREKSSCDETESDYEPKNKVKSRKPQNRSKNGKILG
 QKKRQIDSSEEDDEEDYNDKRSSRRQATVNVSYKEDEEMKTDSDLLLEVCGEDVPQPEEEEFETIER
 FMDCRIGRKGATATTTIYAVEADGDPNAGFEKNKEPGEIQYLKWKGWSHIHNTWETEELKQQNVRG
 MKKLDNYKKKQDETKRWLKNASPEDVEYNCQQELTDDLHKQYQIVERIAHSNQKSAAGYPDYCKWQ
 GLPYSECSWEDGALISKKFQACIDEYFSRNQSKTTPFKDCKVLKQRPFRVALKKQPSYIGGHEGLELRD
 YQLNGLNWL AHSWCKGNSCILADEMGLGKTIQTSFLNYLFHEHQLYGPFLLVPLSTLTSWQREIQTW
 ASQMNAVYYLGDINSRNMIRTHEWTHHQTARKFNILLTTEYILLKDKAFLGGLNWAFIGVDEAHRKLN
 DDSLLYKTLIDFKSNHRLITGTPLQNSLWLLHFIMPEKSSWEDFEEHKGREYGYASLHKL
 EPFLLRRVKDVEKSLPAKVEQILRMESALQKQYKWLTRNYKALSKGSKGSTSGFLNIMMELKCC
 NHCYLKPPDNEFYNKQEQALQHLIRSSGKLLLDKLLIRLRERGNRVLIFSQMVRMLDILAEYLKVRQ
 FPFQRLDGSIKGELRKQALDHFNAEGSEDFCFLSTRAGGLINLASADTVVIFSDWNPQNDLQAAR
 AHRIGQKKQVNIYRLVTKGSVEEDILERAKKMKVLDHLVIQRMDDTGTVLHTGSAPSSSFPNKEELS
 AILKFGAEELFKEPEGEEQEPQEMDIDEILKRAETHENEPGLTVGDELLSQFKVANFSNMEDDIELE
 PERNSKNWEEIIPEDQRRRLEEEERQKELEIYMLPRMRNCAKQISFNGSEGRRSRRYSGSDSDSIS
 EGKRPKRRPRPTIPRENKGFSDAEIRRFIKSYKFGGPLERLDAIARDAELVDKSETDLRRLGELVH
 NGCIKALKDSSSGTERTGGRLGKVKGPTFRISGVQVNAKLVISHEEELIPLHKSIPSDPEERKQYTPC
 HTKAAHFDIDWGEDSNLLIGIYEGYGSWEMIKMPPDLSTHKILPDDPKKPAKQLQTRADYLK
 LLSRDLAKKEALSGAGSSKRRKARAKKNKAMKSIKVKEEIKSDSSPLPSEKSDDEDDKLSKSKDGRER
 SKKSSVSDAPVHITASGEPVPISESEELDQKTFSIKERMMPVKAALKQLDRPEKGLSEREQLEHTRQ
 CLIKIGDHITECLKEYTNPEQIKQWRKNLWIFVSKFTEFDARKLHKLKHAIKRQESQQNSDQNSNLN
 PHVIRNPDVERLKENTNHDDSSRDSYSSDRHLTQYHDHKKDRHQGDSYKKSRSRKRYPSSFSNGKDHRD
 WDHYKQDSRYSDREKHKRLDDHRSRDRSNLEGLKDRSHSDHRSRSHRHSRSHRHSRSHRHSRSHRHSR
 DYRYHSDWQMDHRASSGPRSPLDQRSYGSRSPFEHSVEHKSTPEHTWSSRKT
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Cloning Scheme:

Sgfl-MluI

Cloning sites used for ORF Shuttling:



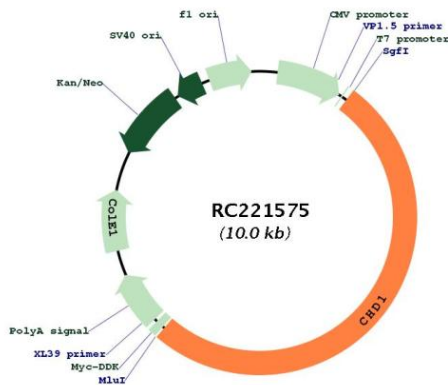
* The last codon before the Stop codon of the ORF

ACCN:	NM_001270
ORF Size:	5127 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_001270.4

RefSeq Size: 6457 bp
 RefSeq ORF: 5133 bp
 Locus ID: 1105
 UniProt ID: [O14646](#)
 Cytogenetics: 5q15-q21.1
 Domains: SNF2_N, CHROMO, DEAD, helicase_C
 Protein Families: Druggable Genome
 MW: 196.6 kDa

Gene Summary: The CHD family of proteins is characterized by the presence of chromo (chromatin organization modifier) domains and SNF2-related helicase/ATPase domains. CHD genes alter gene expression possibly by modification of chromatin structure thus altering access of the transcriptional apparatus to its chromosomal DNA template. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC221575