

## Product datasheet for **RC234731**

### CHD1L (NM\_001256338) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHD1L (NM_001256338) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHD1L
Synonyms:	ALC1; CHDL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234731 representing NM\_001256338  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCGCGCGGGCGCTACTAGCCGCGGGGCCAAGCGCCTGGCTTCTTACTGCGGCTTCATACTGAGG  
 GCCGAGCCGAGGCGCGGGTGCAGGAGCAGGACTTACGGCAGTGGGGCTGACAGCAAGTGAAGTGA  
 CAAACTCTGCAGCCATTTCTGCTGAGGCGAGTGAAAGCTGAGGTAGCTACAGAGCTTCCCAAGAAGACA  
 GAAGTAGTGATATACCATGGCATGTCAGCATTGCAGAAGAAATACTACAAGGCCATTTTGATGAAAGACC  
 TAGATGCATTTGAAAATGAGACGGCAAAGAAATTAAGTACAGAACATTTTGCCAGCTTCGAAAGTG  
 TGTGGATCACCCATTTGTTTGTGGTGTGGAGCCGGAGCCTTTTGAAGTTGGAGACCACCTGACTGAG  
 GCTAGTGGGAAGCTTACCTGCTGGATAAGCTACTAGCATTCTGTATTCTGGGGCCATCGGGTTTTAC  
 TTTTCTCCAAAATGACCCAGATGTTGGATATTCTCAAGACTATATGGATTACAGAGGCTACAGCTATGA  
 GCGTGTGGATGGTTCTGTGAGAGGAGAAGAGAGACACTTGGCCATTAAGAACTTTGGACAGCAGCCATT  
 TTGTTTTTCTCCTGAGTACTAGGGCAGGTGGAGTTGGCATGAACTTAACAGCAGCAGATACTGTGATTT  
 TTGTTGACAGTGACTTTAATCCTCAGAATGACTTGCAAGCAGCTGCCAGGGCTCATCGCATTGGCCAAAA  
 CAAGTCTGTAAAGTTATTCGGCTGATTGGTTCGAGACACTGTGGAAGAAATAGTCTATAGAAAAGCAGCC  
 TCCAAACTGCAGCTCACCAACATGATCATAGAAGGAGGCCATTTACTCTGGGAGCCAGAAACCCGCTG  
 CCGATGCTGACCTCCAGTTGAGTGAGATACTCAAATTTGGTTGGATAAACTGCTGGCCTCTGAGGGGAG  
 CACCATGGATGAAATAGACCTGGAGTCCATCCTGGGAGAAACAAAAGATGGCCAGTGGGTCTCTGATGCC  
 TTGCCTGCAGCAGAAGGAGGGAGCAGAGATCAAGAGGAAGGAAAAATCATATGTACTTATTTGAAGGTA  
 AAGATTATTCTAAAGAGCCAGTAAGGAAGACAGAAAAATCATTTGAACAAGTGGTAAACCTTCAGAAAA  
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 GAGGACCTTGAGAATGGGAAGAGAGCTCTGCTGAGCTGGATTACCAAGACCCAGATGCTACTTCCCTCA  
 AGTACGTTAGTGGTGATGTCACCCACCCTCAGGCTGGGGCCGAGGATGCTCTCATTGTGCACTGCGTAGA  
 TGACTCTGGCCACTGGGCAGAGGTGGTTATTTACAGCTCTGGAAAAGCGATCCGCTGAGCCAAGAAAA  
 ATATATGAGCTGGCTGGGAAAATGAAAGACCTGAGTTTGGGAGGTGTCCTTTTATTTCTGTTGATGATA  
 AAGAATCAAGAAACAAAGGGCAAGATTTGTTGGCCTTGATTGTGGCTCAGCATCGTGATCGTTCCAATGT  
 CCTGTCTGGCATTAAAGATGGCAGCCCTAGAAGAGGGCCTGAAGAAGATATTTTAGCAGCAAAAAAGAA  
 AAAGCAAGTGTTCATCTCCACGTATTGGACATGCCACGAAAGGTTTTAACTGGTATGGTACTGAGCGAC  
 TTATTCGGAACATCTGGCTGCAAGAGGCATCCCAACTTACATATATTTTCTAGAAAGCAAGTCTGC  
 TGTCTTCAATCAGTCTTCTCTCCTCAAGACAGCTGGTGCCT

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234731 representing NM\_001256338  
Red=Cloning site Green=Tags(s)

```
MERAGATSRGGQAPGFLRLHTEGRAEAARVQEQLRQWGLTASELHKLLQPFLRRVKAEVATELPKKT
EVVIYHGMSALQKKYYKAILMKDLDAFENETAKKVKLQNILSQLRKCVDHPYLFDGVEPEPFVGDHLTE
ASGKLHLLDKLLAFLYSGGHRVLLFSQMTQMLDILQDYMDYRGYSYERVDGVSVRGEERHLAIKNFGQQPI
FVFLSTRAGVGMNLTAADTVIFVDSDFNPQNDLQAAARAHRIQNKSVKIVIRLIGRDTVEEIVYRKAA
SKLQLTNMIEGGHFTLGAQKPAADADLQLSEILKFGLDKLLASEGSTMDEIDL ESTILGETKDGQWVSDA
LPAAEGGSRDQEEGNHMYLFEGKDYSKEPSKEDRKSFEQLVNLQKTLLEKASQEGRSLRNKGSVLIPLG
VEGSTKRKRVLSPEELEDQRKQRQEAARRRRIIEKKRQKEEAHKKKMAWESNNYQSFCLPSESESE
EDLENGEESAELDYQDPDATSLKYVSGDVTHPQAGAEDALIVHCVDSDGHWGRGGLFTALEKRSAPRK
IYELAGMKDLSLGGVLLFPVDDKESRNKGQDLLALIVAQHRDRSNVLSGIKMAALEEGLKKIFLAAKKK
KASVHLPRIGHATKGFNWWYGERLIRKHLAARGIPTIYIYFPRSKSAVLHSQSSSSSRQLVP
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001256338

**ORF Size:** 2079 bp

**OTI Disclaimer:** 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](#)

**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:**

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\\_001256338.1](#), [NP\\_001243267.1](#)

**RefSeq Size:** 2424 bp

**RefSeq ORF:** 2082 bp

**Locus ID:** 9557

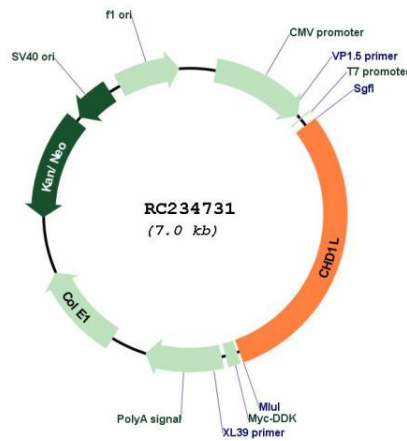
**UniProt ID:** [Q86WJ1](#)

**Cytogenetics:** 1q21.1

**MW:** 78.2 kDa

**Gene Summary:** This gene encodes a DNA helicase protein involved in DNA repair. The protein converts ATP to add poly(ADP-ribose) as it regulates chromatin relaxation following DNA damage. Overexpression of this gene has been linked to several types of cancers. [provided by RefSeq, Feb 2017]

### Product images:



Circular map for RC234731