

## Product datasheet for **KN223499**

### CHD1L Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	CHD1L
Locus ID:	9557
Components:	<p><b>KN223499G1</b>, CHD1L gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCATACTGAGGGCCGAGCCG</p> <p><b>KN223499G2</b>, CHD1L gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCGCGGGCGCTACTAGCCG</p> <p><b>KN223499D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

#### Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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CCTCAATCTG CTCCCATAA TGCACTTGAG ATACCCACTG CCACAATGAC GTCTTTGGTG ATTTTAATTT
ACTACTATTC AGAGGTTCCC AATTTTGGCC TACAGGTAC AGGCAGTAAG AAAGGGATTT CAGGGACTAA
ATCAATTTAT CACTAGGTAA ACCGAACAAG AACAGTTTGA TCTTATCGTG AATCACTGGA GGCACGGAA
CAAGTCTTAC TTCTAGAACC CCCAGGGCCC AGCGGAGTGT CTGACACATG ATAGTCGATG TTGATTAAT
AATAAATGAA TGATGAACAC ATGCCACCTC CTTGACGGGC AGTTCAGGCA ATCAGACGTC CTGTGCGTGA
TCAGACGCCT AGCGCTTCAAG AAGCACGACT GGTGAGAACT GGCAGCCCT TCCACGCTCC GCACTGCAAG
AACTGCCTGT CCGGAAGGGT GACTGCACCA GCTCCGCTCC GGATATCTTG GCAGGACGCG CCCTCTGGCG
GCGCCTCGCT CGTAGGTGGG CCCAGCGCG CAGTCGCGCG CCCC CGCGCG TTGGGAAGTT GGGAGGGAGG
TGCGCGCTTG GCCGCGCGG GCGGGGCCTC TACCGGCCCG GCGCGCGCG GTGCAGGAGC AGGACTTACG
GCAGTGGGG CTGACAGGTG AGCGGGCTCC GGGCGGACTT CGGCCAGGCG GGCCAACTA TTGGGACTGC
CTTTGCGGG CCGGGGGCG AGCGGGTGG CCGCCCGGTG GGCAGTTTAC CCGCTCGCG CAGGGCCTTC
CTTCGCTCCT GCCGTGGCG GAGAGAACT GCGCCCGGC TTGGTGGCCA CGGCCCGCG CTGCGCGGCG
CGCGGGGCG GCGGACCCA GATGAATGAG GTCGCGGCC CGGTAGCCAG GCCTGGCCCC TGGCCTGTGG
AGGGGAAACG TGGTGAGATC AGCGCCACCT GCAGGCCTC GCTGAAGAGT TGGACGCCT GGTGCACCAA
GGATGTAGGT TTCCAGTTG TGTTCGGTG GTTTTGGTCC CCGGCCTGGG GAGTTTATTG GTTGCTTCTG
TAAACGATC AACTCATCTC CCAGCTTCA CTTCTCCGTT TACTGTGCG GCGCAGTTAT TGGAGAATTC
GCCACGGATT AATTCTCCG ATCGAGTTAC GTGCGGTAGT GAGCGGACAA ACTCAAGCAA AGCACTGTTT
ATGAAGCTAT

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**GE100003**, scramble sequence in pCas-Guide vector



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**Disclaimer:**

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

**RefSeq:**

[NM\\_001256336](#), [NM\\_001256337](#), [NM\\_001256338](#), [NM\\_004284](#), [NM\\_024568](#), [NR\\_046070](#), [NM\\_001348451](#), [NM\\_001348452](#), [NM\\_001348453](#), [NM\\_001348454](#), [NM\\_001348455](#), [NM\\_001348456](#), [NM\\_001348457](#), [NM\\_001348458](#), [NM\\_001348459](#), [NM\\_001348460](#), [NM\\_001348461](#), [NM\\_001348462](#), [NM\\_001348463](#), [NM\\_001348464](#), [NM\\_001348465](#), [NM\\_001348466](#), [NR\\_145681](#), [NR\\_145682](#), [NR\\_145683](#), [NR\\_145684](#), [NR\\_145685](#), [NR\\_145686](#), [NR\\_145687](#), [NR\\_145688](#), [NR\\_145689](#), [NR\\_145690](#), [NR\\_145691](#), [NR\\_145692](#), [NR\\_145693](#), [NR\\_145694](#), [NR\\_145695](#)

**UniProt ID:**

[Q86WJ1](#)

**Synonyms:**

ALC1; CHDL

**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:**
