

## Product datasheet for **KN201919**

### HDAC11 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:** HDAC11  
**Locus ID:** 79885  
**Components:** **KN201919G1**, HDAC11 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCGCTACAACATCACCTTCA  
**KN201919G2**, HDAC11 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGCATGTGCCAGAGACACGC  
**KN201919D**, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

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

```
GATCGTTGGG AACCGGAGCT GAATGAAGCC ATACCAAACG ACGAGCGTGA CACCACGATG CCTGTAGCAA
TGGCAACAAC GTTGCACAAA CTATTAACCTG GCGAACTACT TACTCTAGCT TCCCAGGCAAC AATTAATAGA
CTGGATGGAG GCGGATAAAG TTGCAGGACC ACTTCTGCGC TCGGCCCTTC CGGCTGGCTG GTTTATTGCT
GATAAATCTG GAGCCGGTGA GCGTGGTCT CGCGGTATCA TTGCAGCACT GGGGCCAGAT GGTAAGCCCT
CCCGTATCGT AGTTATCTAC ACGACGGGGA GTCAGGCAAC TATGGATGAA CGAAATAGAC AGATCGCTGA
GATAGGTGCC TCACTGATTA AGCATTGGTA ACTGTACAGC CAAGTTTACT CATATATACT TTAGATTGAT
TTAAAACCTC ATTTTAAATT TAAAAGGATC TAGGTGAAGA TCCTTTTTGA TAATCTCATG ACCAAAATCC
CTTAACGTGA GTTTTCGTTC CACTGAGCGT CAGACCCCGT AGAAAAGATC AAAGGATCTT CTTGAGATCC
TTTTTTCTG CGCGTAATCT GCTGCTTGCA AACAAAAAAA CCACCGCTAC CAGCGGTGGT TTGTTTGCCG
GATCAAGAGC TACCAACTCT TTTTCCGAAG GTAAGTGGCT TCAGCAGAGC GCAGATACCA AATACTGTTC
TTCTAGTGTA GCCGTAGTTA GGCCACCACT TCAAGAAGTCT TGTAGCACCG CCTACATACC TCGCTCTGCT
AATCCTGTTA CCAGTGGCTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG GGTGGACTC AAGACGATAG
TTACCGGATA AGGCGCAGCG GTCGGGCTGA ACGGGGGGTT CGTGACACACA GCCCAGCTTG GAGCGAACGA
CCTACACCGA ACTGAGATAC CTACAGCGTG AGCTATGAGA AAGCGCCACG CTTCCCGAAG GGAGAAAGGC
GGACAGGTAT CCGGTAAGCG GCAGGGTCCG AACAGGAGAG CGCACGAGGG AGCTTCCAGG GGGAAACGCC
TGGTATCTTT ATAGTCCTGT CGGGTTTCGC CACCTCTGAC TTGAGCGTCG ATTTTTGTGA TGCTCGTCAG
GGGGGCGGAG CCTATGGAAA AACGCCAGCA ACGCGGCCTT TTTACGGTTC CTGGCCTTTT GCTGGCCTTT
TGCTCACATG TTCTTCTCTG CGTTATCCCC TGATTCTGTG GATAACCGTA TTACCGCCTT TGAGTGAGCT
GATACCGCTC GCCGCAGCCG AACGACCGAG CGCAGCGAGT CAGTGAGCGA GGAAGCGGAA GAGCGCCCAA
TACGCAAACC GCCTCTCCCC GCGCGTTGGC CGATTTCATTA ATGCAGCTGG CACGACAGGT TTCCCAGTGG
GAAAGCGGGC AGTGAGCGCA ACGCAATTAA TGTGAGTTAG CTCACTCATT AGGCACCCCA GGCTTTACAC
TTTATGCTTC CGGCTCGTAT GTTGTGTGGA ATTGTGAGCG GATAACAATT TCACACAGGA AACAGCTATG
ACCATGATTA CGCCAAGCTC CTTCTCTTTC CAGCCCTTCC TCTTCTACTG ACTGACTGAC TGGAAGACAC
```



[View online »](#)

ACCTTACGCG GACGCCCCCA CGGAGGCAGC CACTGGGGCG GATTTCTGTC TCTGGGTGAC GACTGCCAGG  
 GTGTGATGGG AAGGGTTAGC AGCGCAGCGG GGTCAGGGGA TCCCCGCCCC CCGCCCTGGC TCAGGTTGGG  
 TCCCGACTTG GGTTCCTGAG TGCTTACTGT GCTCAGCTCC TCAGTTGCAT TCTCTGAGTC CTCACAACAG  
 CCACACATTT TGCAGCCGAA GCCTTGTGCC ACACAGCTGT GGGGGCATT ATTACGGTGC AGAGGTGATG  
 CGCGGAGGCC TTGCAGCCAG ACACACCTGA GTGCACGCTT GCTTCTCCAC AGACCTGCAC TGTGACCTTG  
 GGCACACCTG GTCTGCTCTC TGAGCCTCTG GTGCGATTGT GGTGCCTACC CCCAGGGCTG CTGTGAGGAC  
 TGGATTGGAA TTGGGTTCCG GGAAAGGCAG CCAGTTTAAAG CAGCTGTTGT TGAGGGGCCCT TTGTCTGCCG  
 CTGAGGGGCT AGTGGTGCCT GGCAATGGCT GGTGGGTCAG TCCAGGCGGG CTCGGGAGGG AGCTGCTTTC  
 TGCCGAGGCT GCCCCAGCTG TCGTCTGTCT TTTTCCACA CGGTAAGTGC ATGGAGAGCG ACGAGAGCGG  
 CCTGCCCGCC ATGGAGATCG AGTGCCGCAT CACCGGCACC CTGAACGGCG TGGAGTTCGA GCTGGTGGGC  
 GCGGAGAGG GCACCCCGA GCAGGGCCGC ATGACCAACA AGATGAAGAG CACCAAAGG GCCCTGACCT  
 TCAGCCCTA CTTGCTGAGC CACGTGATGG GCTACGGCTT CTACCACTTC GGCACCTACC CCAGCGGCTA  
 CGAGAACCC TTCCTGCACG CCATCAACAA CGGCGGCTAC ACCAACACCC GCATCGAGAA GTACGAGGAC  
 GGGCGGCTG TGCACGTGAG CTTGAGCTAC CGCTACGAGG CCGGCCGCGT GATCGGCGAC TTCAAGGTGA  
 TGGGACCCGG CTTCCCGAG GACAGCGTGA TCTTACCGA CAAGATCATC CGCAGCAACG CCACCGTGGG  
 GCACCTGCAC CCCATGGGCG ATAACGATCT GGATGGCAGC TTCACCCGCA CCTTCAGCCT GCGCGACGGC  
 GGTAATAACA GCTCCGTGGT GGACAGCCAC ATGCACTTCA AGAGCGCCAT CCACCCAGC ATCCTGCAGA  
 ACGGGGGCCC CATGTTCCGC TTCGCGCGG TGGAGGAGGA TCACAGCAAC ACCGAGCTGG GCATCGTGGG  
 GTACCAGCAC GCCTTCAAGA CCCCGGATGC AGATGCCGTT GAAGAAAGAG TTTAAGAATT CCGATCATAT  
 TCAATAACCC TTAATATAAC TTCGTATAAT GTATGCTATA CGAAGTTATT AGGTCTGAAG AGGAGTTTAC  
 GTCCAGCAA GCTTAGGATC TCGACCTCGA AATTCTACCG GGTAGGGGAG GCGCTTTTCC CAAGGCAGTC  
 TGGAGCATGC GCTTAGCAG CCCCGCTGGG CACTTGGCGC TACACAAGTG GCCTCTGGC TCGCACACAT  
 TCCACATCCA CCGTAGGCG CCAACCGACT CGGTTCTTTG GTGGCCCTT CGCGCCACT TACTACTCTC  
 CCCTAGTCAG GAAGTTCCCC CCCGCCCGC AGCTCGGTC GTGCAGGACG TGACAAATGG AAGTAGCACG  
 TCTCACTAGT CTCGTGCAGA TGGACAGCAC CGCTGAGCAA TGGAAAGCGG TAGGCCTTTG GGGCAGCGG  
 CAATAGCAGC TTTGCTCCTT CGCTTTCTGG GCTCAGAGG TGGGAAGGGG TGGTCCGGG GGGGCTCA  
 GGGGCGGGCT CAGGGGCGGG GCGGGCGCCC GAAGTCTCTC CGGAGGCCCG GCATTCTGCA CGCTTCAAAA  
 GCGCAGTCT GCCGCGCTGT TCTCCTTTC CTCATCTCCG GGCTTTTGA CCTGCATCCA TCTAGATCTC  
 GAGCAGTGA AGCTTACCAT GACCGAGTAC AAGCCCACGG TGGCCTCGC CACCCGCGAC GACGTCCCA  
 GGGCCGTACG CACCCTCGCC GCCGCTTCC CCGACTACC CGCCACGCG CACACCGTCG ATCCGGACCG  
 CCACATCGAG CGGGTACCG AGCTGCAAGA ACTTCTCTC ACGCCGCTCG GGCTCGACAT CGGCAAGGTG  
 TGGGTCGCGG ACGACGGCGC CGCGGTGGCG GTCTGGACCA CGCCGGAGAG CGTCGAAGCG GGGGCGGTGT  
 TCGCCGAGAT CGGCCCGCGC ATGGCCGAGT TGAGCGGTTT CCGGCTGGCC GCGCAGCAAC AGATGGAAGG  
 CCTCTGGCG CGCACCGGC CCAAGGAGCC CGCGTGGTTC CTGGCCACC GCGGCTCTC GCCCGACCAC  
 CAGGGCAAGG GTCTGGGCGG CGCCGCTGTG CTCCCGGAG TGGAGGCGGC CGAGCGCGCC GGGGTGCCCG  
 CCTTCTGGA GACCTCCGCG CCCACAACC TCCCCTTCTA CGAGCGGCTC GGCTTACC GTCACCCCGA  
 CGTCGAGGTG CCCGAAGGAC CGCGCACCTG GTGCATGACC CGCAAGCCCG GTGCCTGACG CCCGCCAC  
 GACCCGACG GCCCGACCGA AAGGAGCGCA CGACCCATG CATCGATGAT ATCAGATCCC CGGGATGACG  
 AAATTGATGA TCTATTAAC AATAAAGATG TCCACTAAA TGGAAAGTTT TCCTGTCATA CTTTGTAAAG  
 AAGGGTGAGA ACAGAGTACC TACATTTTGA ATGGAAGGAT TGGAGTACG GGGGTGGGG TGGGTGGGA  
 TTAGATAAAT GCCTGCTCTT TACTGAAGGC TCTTACTAT TGCTTTATGA TAATGTTTCA TAGTTGGATA  
 TCATAATTTA AACAAAGCAA ACCAAATTAA GGGCCAGCTC ATTCCTCCA CTCATGATCT ATAGATCTAT  
 AGATCTCTCG TGGATCATT GTTTTTCTCT TGATTCCAC TTTGTGGTTC TAAGTACTGT GGTTCACAAA  
 TGTGTCAGTT TCATAGCCTG AAGAACGAGA TCAGCAGCCT CTGTTCCACA TACACTTCAT TCTCAGTATT  
 GTTTTGCAA GTTCTAATC CATCAGAAGC TGGTCGAGAT CCGGAACCCT TAATATAACT TCGTATAATG  
 TATGCTATAC GAAGTTATTA GGTCCCTCGA AGAGTTTAC TAGGCGCGCC TGGAGAAGCT GCATCCCTTT  
 GATGCCGAA AATGGGGCAA AGTGATCAAT TTCCTAAAAG GTATGGAAG TCCCCTTGG ACTCTCATCT  
 GCTTCTCCA ACCCACCTGT CCTCTCCGTC CTCATCCCA ACATAAGCCT CAGGCTCTCT CCCATCTTCA  
 GTTTCAGCCC TCGGATGGCC TTCCACCCAT GCTTCCGCC AAAATGATTT TTCCAACACA GACTCCTAAT  
 CACGATATGA TGTCCCTGAC TCAGACTCTC CCTGGCTCCC CATCCTGTGG GCCTAAGTCC TGCCTTGCC  
 CAAGAGGCT AGTGAAAGG TAGCTGATTA CTGATGGCA CAGGGAAGG GAAGCTTGGG GGAGTCCATT  
 TCCTAAGGTT CAGAGAGTCA GGAGGTAGAG CACCTCCACC GCACCTCTCT TGATTACAGA TGGGGGAAAT

TGTGTCCTAG AATGATTAGG AACATGTGC ACCCAATTCC AGTCCAGTCC TCACAGCAGC CCTCGGGGTA  
 GGCACCACAA TCGCAGCAGA GGCTCAGGAG CTCACTGTAA CCTCCGCCTT TCAGGTTCAA ACAATTTTTTC  
 TGCCCTCAGCC TCCCAAGTAG ACGACAGTCT TCACTGACTG ACTGACTGGA AAGTCCTCTC CACTGACTGT  
 AGCCTCCAAT TCACTGGCCG TCGTTTTACA ACGTCGTGAC TGGGAAAACC CTGGCGTTAC CCAACTTAAT  
 CGCCTTGAG CACATCCCC TTTGCCCAGC TGGCGTAATA GCGAAGAGGC CCGCACCGAT CGCCCTTCCC  
 AACAGTTGCG CAGCCTGAAT GCGGAATGGC GCCTGATGCG GTATTTTCTC CTTACGCATC TGTGCGGTAT  
 TTCACACCGC ATACGTCAA GCAACCATAG TACGCGCCCT GTAGCGGCGC ATTAAGCGCG GCGGGTGTGG  
 TGGTTACGCG CAGCGTGACC GCTACACTTG CCAGCGCCCT AGCGCCCGCT CCTTTCGCTT TCTTCCCTTC  
 CTTTCTCGCC ACGTTCGCG GCTTTCGCC TCAAGCTCTA AATCGGGGGC TCCCTTTAGG GTTCCGATTT  
 AGTGCTTTAC GGCACCTCGA CCCCAAAAAA CTTGATTTGG GTGATGGTTC ACGTAGTGGG CCATCGCCCT  
 GATAGACGGT TTTTCGCCCT TTGACGTTGG AGTCCACGTT CTTAATAGT GGACTCTTGT TCCAAACTGG  
 AACAACTC AACCTATCT CGGGCTATTC TTTTGATTTA TAAGGGATTT TGCCGATTTT GGCCTATTGG  
 TTAATAATG AGCTGATTTA AAAAAATTT AACGCGAATT TTAACAAAAT ATTAACGTTT ACAATTTTAT  
 GGTGCACTCT CAGTACAATC TGCTCTGATG CCGCATAGTT AAGCCAGCCC CGACACCCGC CAACACCCGC  
 TGACGCGCCC TGACGGGCTT GTCTGCTCCC GGCATCCGCT TACAGACAAG CTGTGACCGT CAACGGGAGC  
 TGCATGTGTC AGAGGTTTTT ACCGTCATCA CCGAAACGCG CGACCCGAAA GGGCCTCGTG ATACGCCTAT  
 TTTTATAGGT TAATGTCATG ATAATAATGG TTTCTTAGAC GTCAGGTGGC ACTTTTCGGG GAAATGTGCG  
 CGGAACCCCT ATTTGTTTAT TTTTCTAAT ACATTCAAAT ATGTATCCGC TCATGAGACA ATAACCCTGA  
 TAAATGCTTC AATAATATTG AAAAAGGAAG AGTATGAGTA TTCAACATTT CCGTGTGCGC CTTATTTCCCT  
 TTTTTGCGGC ATTTTGCCTT CTGTTTTTG CTCACCCAGA AACGCTGGTG AAAGTAAAG ATGCTGAAGA  
 TCAGTTGGGT GCACGAGTGG GTTACATCGA ACTGGATCTC AACAGCGGTA AGATCCTTGA GAGTTTTTCGC  
 CCCGAAGAAC GTTTTCCAAT GATGAGCACT TTTAAAGTTC TGCTATGTGG CGCGGTATTA TCCCGTATTG  
 ACGCCGGGCA AGAGCAACTG GGTCGCCGCA TACACTATTC TCAGAAATGAC TTGTTGAGT ACTCACCAGT  
 CACAGAAAAG CATCTTACGG ATGGCATGAC AGTAAGAGAA TTATGCAGTG CTGCCATAAC CATGAGTGAT  
 AACACTGCGG CCAACTTACT TCTGACAACG ATCGGAGGAC CGAAGGAGCT AACCGCTTTT TTGCACAACA  
 TGGGGGATCA TGTAACCTCGC CTT

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

**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\\_001136041](#), [NM\\_001330636](#), [NM\\_024827](#)

**UniProt ID:**

[Q96DB2](#)

**Synonyms:**

HD11

**Summary:**

This gene encodes a class IV histone deacetylase. The encoded protein is localized to the nucleus and may be involved in regulating the expression of interleukin 10. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Apr 2009]

