

Product datasheet for **KN207346BN**

P cadherin (CDH3) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	P cadherin
Locus ID:	1001
Components:	KN207346G1 , P cadherin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGACGCGAGAGGTCCACGA KN207346G2 , P cadherin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCAGGGAGCGGTCCCGGTCCG KN207346BND , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.

Homologous arm and mBFP-Neo sequences:

pUC vector backbone in gray; Left arm sequence in blue; mBFP-Neo in green; Right arm in violet

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GAAACGCGGT CCTTCGGGAC CTGCTAGTTT TATACCCCGG AGGATCCTCC CCGGCGGGCT GGCACGGGAG
GTGGAGAAAG AGGCTTGGGC GGCCCCGCTG TAGCCCGCTG TGGGAGGACG CACGGGCCTG CTTCAAAGCT
TTGGGATAAC AGCGCCTCCG GGGGATAATG AATGCGGAGC CTCCGTTTTC AGTCGACTTC AGATGTGTCT
CCACTTTTTT CCGCTGTAGC CGCAAGGCAA GGAAACATTT CTCTTCCCGT ACTGAGGAGG CTGAGGAGTG
CACTGGGTGT TCTTTTCTCC TCTAACCAG AACTGCGAGA CAGAGGCTGA GTCCTGTAA AGAACAGCTC
CAGAAAAGCC AGGAGAGCGC AGGAGGGCAT CCGGGAGGCC AGGAGGGGTT CGCTGGGGCC TCAACCGCAC
CCACATCGGT CCCACCTGCG AGGGGGCGGG ACCTCGTGGC GCTGGACCAA TCAGCACCCA CCTGCGCTCA
CCTGGCCTCC TCCCGTGGC TCCCGGGGGC TCGGTGCTC AAAGGGGCAA GAGCTGAGCG GAACACCGGC
CCGCCGTCGC GGCAGCTGCT TCACCCCTCT CTCTGCAGCC ATGGGGCAGT GGCCTCGGGG AGAGCGCGGG
GCTGCGCTCC CTGGGGCCAA GGGAGTCCCG GAAGGCCCGT GAGGACCCTG CGGTGTGGGG AGTGCAGGGC
CGGGCACGCC TGGACCCAGC CTCCTTCACT CTCTGCCCTC GGGCGCAGGT TTGCTGGCTG CAGTGCAGGG
CCTCCGAGCC GTGCCGGGCG GTCTTCAGGG AGGCTGAAGT GACCTTGAG GCGGGAGGCG CGGAGCAGGA
GCCCGGCCAG GCGCTGGGGA AAGTAAGAT CCTCAGGGTG GAACCGCAGG GTAGGGGCCG CACGTGACCA
TTTTGGTGTG GACCGCGCGA GGGGTGTTCC GGCCGGGGCA AGGGACTCCT GGCGCCACCT CAGTCCCGG
GGAGGCGCAG AACGCGCCTC GGGGGCTGGG ATTGGGGGTG GTGGCTGACG GAGAAGGCTG GGCAGCAGAG
CGCCTATGAC ATCCAGCCCC TTGTCCGGTA GCCACTGCTT ACCTTGACCC CCTCCTCCGA GATGCCGGAT
GGCTGAGCCC CTCACCCAGT CTCGACGTGG GAAGTTCTCC CCCGCTGGCC CCAGCAGAGG AATGCGCCGG
CCACATTCTT
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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_001317195](#), [NM_001317196](#), [NM_001793](#)

UniProt ID: [P22223](#)

Synonyms: CDHP; HJMD; PCAD

Summary: This gene encodes a classical cadherin of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion protein is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. This gene is located in a gene cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. In addition, aberrant expression of this protein is observed in cervical adenocarcinomas. Mutations in this gene are associated with hypotrichosis with juvenile macular dystrophy and ectodermal dysplasia, ectrodactyly, and macular dystrophy syndrome (EEMS). [provided by RefSeq, Nov 2015]

Product images:

