

Product datasheet for **KN218822**

Desmoplakin (DSP) 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:	Desmoplakin
Locus ID:	1832
Components:	<p>KN218822G1, Desmoplakin gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGAGTGTTGATCCGCGGGT</p> <p>KN218822G2, Desmoplakin gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGGCCCGACCTGCGCTACG</p> <p>KN218822D, 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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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC
ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTTCGATGT
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CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACTGA CTGACTGACT GGAAGACACA

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CCTCGGGCCA CGCATTCCCA GCCCGAGAGG CCCAGCGCA GAGCGCAGCA GCCCCCGCA GCGCAGGTCC
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AGCAGGATGT **ACTATTCTG** **GCGCGCGTG** **ATCACCACC** **AGAACTCGGA** **CGGCTACTGG** **TGGGTACTG**
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GCTGGACAG **GCTGCAGCC** **CCTTTGTCC** **AGCCCGCAA** **TGGGAGTCA** **GGCGAGGTG** **GGTGCAGC**

ACAAACCCA ACCTCTCAA CCGTAATCAA AGTAAAAGAG GAAAGGAGCG GGGCCCCGGT CCTGTCTGGT
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 GACTGCAACG ACTCCTGGAA CGACAGTCTT CACTGACTGA CTGACTGGAA AGAGGAAGGG CTGGAAGAGG
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 GTTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA AATCGACGCT CAAGTCAGAG GTGGCGAAAC
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 CGCTCACCGG CTCCAGATTT ATCAGCAATA AACCAGCCAG CCGGAAGGGC CGAGGCAGCA AGTGGTCCTG
 CAACCTTATC CGCCTCCATC CAGTCTATTA ATTGTTGCCG GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA
 TAGTTTGCGC AACGTTGTTG CCATTGCTAC AGGCATCGTG GTGTCACGCT CGTCGTTTGG TATGGCTTCA
 TTCAGCTCCG GTTCCCAACG ATC

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_001008844](#), [NM_001319034](#), [NM_004415](#)

UniProt ID:

[P15924](#)

Synonyms:

DCWHKTA; DP; DPI; DPII

Summary:

This gene encodes a protein that anchors intermediate filaments to desmosomal plaques and forms an obligate component of functional desmosomes. Mutations in this gene are the cause of several cardiomyopathies and keratodermas, including skin fragility-woolly hair syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Product images:

