



Supplemental Figure. Effects of β -catenin on *Dsc* reporter activities. (a-b) ChIP assays demonstrating binding of β -catenin to the *Dsc3* but not the *Dsc2* promoter. Input, chromatin used for immunoprecipitation; IgG, IP with unspecific IgG. (b-c) Reporter assays in mouse keratinocytes. β -catenin (β Cat), TCF4 and Lef-1 are tested for their ability to affect *Dsc* promoter activities. Baseline reporter activity (set to 1) is defined as the activity of the promoter fragments in the absence of ectopically expressed β Cat, TCF4 or Lef-1. No statistically significant effects of any combination of catenin and TCF/Lef factors on either reporter construct were observed. Error bars, standard deviation.

Table 1. Primer sequences

Dsc1-1F	ATGGTCCTTCCTTCCATCTC
Dsc1-1R	CTGAAGTGGTCCCAATGGCC
Dsc2-1F	GCCAGTGGTCTGGATT
Dsc2-1R	TGCGCAGAGGTGGAGC
Dsc2-2F	GTGGCGGCCAGAGGGAGTTC <u>AT</u> ACCGGTTGAATTC
Dsc2-2R	GGATTCAACCGGT <u>AT</u> GAACTCCCTCTGGCCGCCAC
Dsc2-3F	TCGGACAGAGGAAAAGC <u>AT</u> CTGGGGACCCAGGC
Dsc2-3R	GCCTGGGTCCCCAG <u>AT</u> GCTTTTCCTCTGTCCGA
Dsc2-4F	TCCTGCTAGACCGCCATCTG
Dsc2-4R	CTCGCGCTTGTCTGATGCTC
Dsc2-5F	CTTCTATGGTGTCTTTG <u>GC</u> AAGAGGTGCAGGAGG
Dsc2-5R	CCTCCTGCACCTCTT <u>GC</u> CAAAGACACCATAGAAG
Dsc2-6F	GGCCGTGGAGACAATAGAAC
Dsc2-6R	CACTCACTGTGCCTTCTGAC
Dsc3-1F	GCATAGAGACACACAT
Dsc3-1R	CGCACAGTGCAGCCTCA
Dsc3-2F	GTACAATCACAATG <u>GC</u> AAGAAAAAAG
Dsc3-2R	CTTTTTTTTCTT <u>GC</u> CATTGTGATTGTAC
Dsc3-3F	CCGACCAGAGCTGTTGTATT
Dsc3-3R	TGCATAGTGTGTCAGGCTCATC
