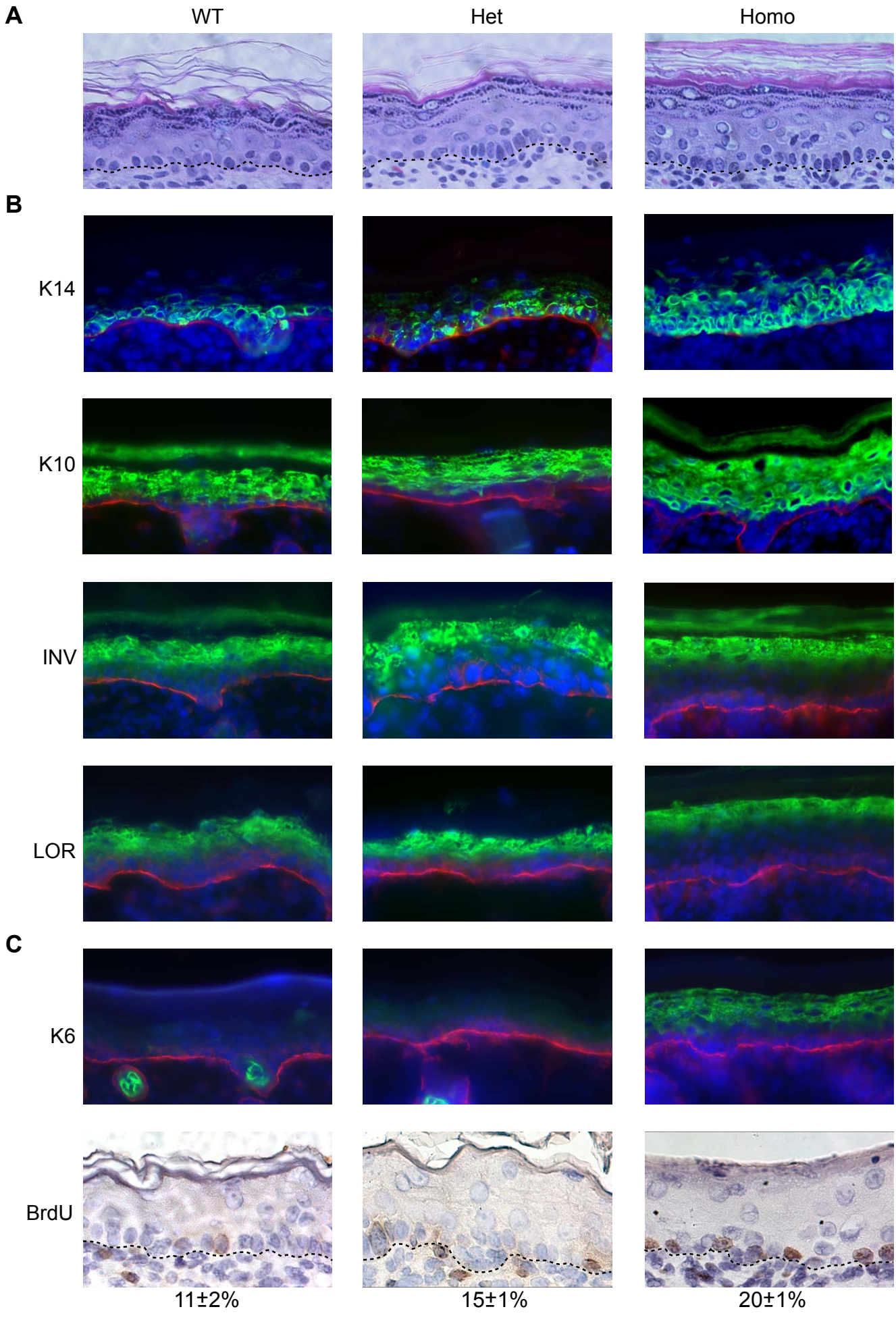
Supplemental Figure 1



Supplemental Figure 1

Normal differentiation with hyperproliferation in homozygous Inv-Cx26 newborn skin. (A) Histology of Inv-Cx26 skin displays no apparent changes in heterozygous Inv-Cx26 skin with hyperkeratosis in Inv-Cx26 homozygous skin. (B) Proper expression of differentiation markers (K14, K10, Inv, Lor) in heterozygous and homozygous Inv-Cx26 mice. (C) Hyperproliferation in Inv-Cx26 homozygous mice with upregulation of K6 suprabasally and increased BrdU positive cells.

Supplemental Table 1

CGAGTAGCTGGGACTTGGAGCTTTGCGACCTGCGTCCTGGGTGAAGACACAGGTCTACCA
GCTCTGTTCAGGCTGCGCTCGGGACAGGACACTGGAAGAGCCTTGAGCTCAAAGAGAGCT
GGGGGT**GGGGTG**GGGCGGAGT**GGGGTG**GGGAGTGACCTAGGCTCCAGGAGAGCTCGCGAC
TCGGCGGGCCCTGACGGCTCTGGGTGCCCGGAGAGCCC**CGCCC**GTGGCGCTG**GGGGTG**GC
GGGCTACTGGGAGCCGCCTCCTCCGC*AACTTTCTCAATCGCTCCAGG*

Sequence of minimal proximal promoter of Cx26 with oligo sequences used in electrophoretic mobility shift assays underlined with KLF binding sites in bold and transcription initiation sequence italicized.