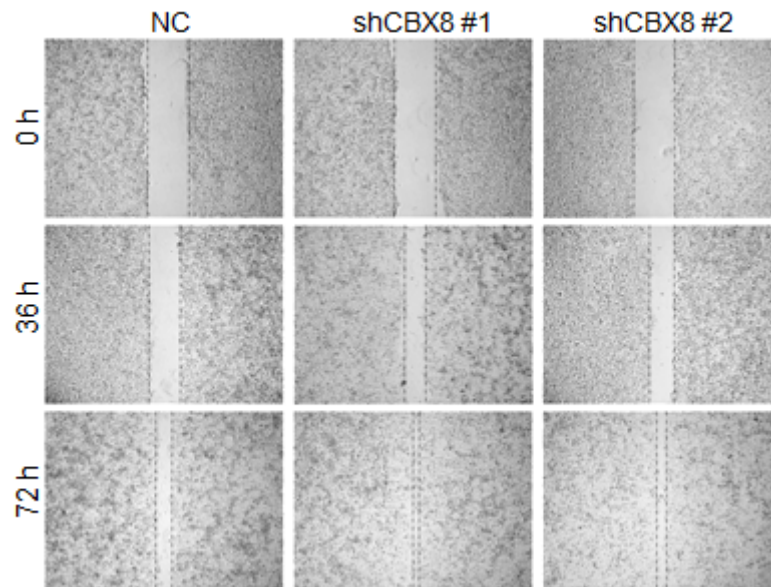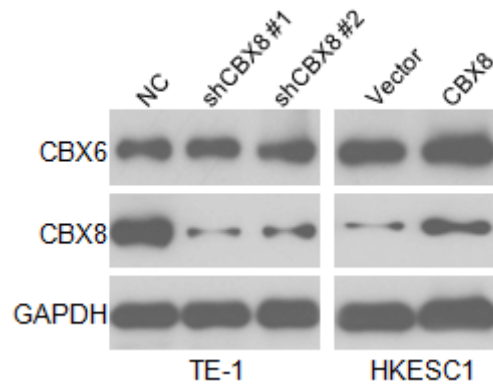# Supplementary data

Supplementary Figures

Figure S1. The cell ability of wound gap closure is dramatically enhanced by knocking down CBX8. Wound-healing assays were performed in TE-1 cells stably expressing NC or CBX8 shRNA . Black dashed lines denote the margins of the wound. Representative images (40 ×) were taken at 0 h, 36 h and 72 h after scratching. Three independent experiments were performed.
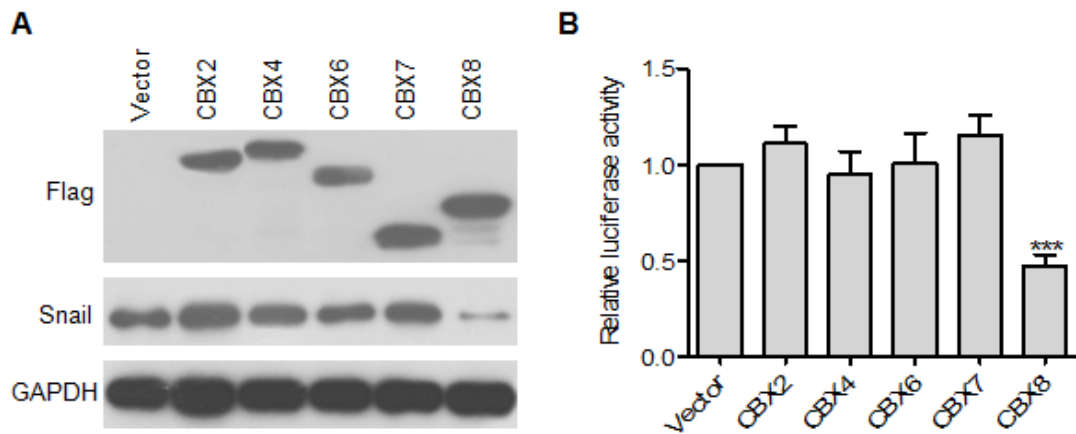
Figure S2. CBX8, but not other members, impairs the expression of Snail. (A) HKESC1 cells were transfected with Vector or Flag-tagged CBXs for 36 h. Cell lysates were collected for Western blotting to detect Flag and Snail. GAPDH was used as the loading control. (B) Luciferase reporter assays were performed in HKESC1 cells co-transfected with Vector or Flag-tagged CBXs together with the luciferase gene driven by the Snail promoter sequences. The normalized luciferase activity in the Vector group was set as the relative luciferase activity. Each bar represents the mean ± S.D. for triplicate experiments. *** $p < 0.001$, Student's t-test.

Figure S3. Knockdown or overexpression of CBX8 doesn't affect the expression of CBX6 in the indicated cell lines. The indicated proteins were determined by Western blotting in the indicated stable cell lines.

Supplementary Tables

Table S1. List of Primers for qRT-PCR

Genes	Forward primers (5'-3')	Reverse primers (5'-3')
CBX8	CCTTCGAAACATGGGTTTGT	CTGGGCTTGTCATCCACTCT
E-cadherin	AATAGTGCCTAAAGTGCTGC	AGACCCACCTCAATCATCCT
N-cadherin	AGCCAACCTTAACTGAGGAGT	GGCAAGTTGATTGGAGGGATG
Fibronectin	ATTTGCTCCTGCACATGCTT	CGGGAATCTTCTCTGTCAGC

Vimentin	GACGCCATCAACACCGAGTT	CTTTGTCGTTGGTTAGCTGGT
Snail	ACTGCAACAAGGAATACCTCAG	GCACTGGTACTTCTTGACATCTG
Slug	CGAACTGGACACACATACAGTG	CTGAGGATCTCTGGTTGTGGT
GAPDH	ACAGTCAGCCGCATCTTCTT	GACAAGCTTCCCGTTCTCAG

Table S2. The primers for qRT-PCR of ChIP assay

Promoters	Forward primers (5'-3')	Reverse primers (5'-3')
Snail-1	TCTGAGGCCAAGGATCTCCA	TGGCTTCGGATGTGCATCTT
Snail-2	GATGATGGGGTTCTGGCCTC	CGTAGGACCCCCAGTTGAAG
Snail-3	GATCTGTCTGGGTGGTTGGG	CCTCCTCTCCTTCCCCTCTT
Snail-4	CCAGGATCGAGTCACAGGATG	ACTGGGGACCCACTTGCC
Snail-5	GAGTGGTTCTTCTGCGCTAC	CTTCCGATTGGGGTCGGAG
Snail-6	CGGAGACGAGCCTCCGATTG	CCGCCAACTCCCTTAAGTACTCC
Snail-7	CGTCGGAAGGTCAGGTGTC	GACGTCGAGCGAAGCGA
Snail-8	TGGATAAGGGAAGGAACGGG	TGGAGAGCGTGGCATTGA
Snail-9	CCTGGAAGCTGCTCTCTAGG	CAGTGAGGGAGACAGACGAA

Snail-10	CACCCCACATGCATTCAGTC	AGGGACCTGGTTAGAGTTTCG
Snail-11	GGAGCTAAATTGACACGGGAC	ACCTATAAGCACCCCACACC
Snail-12	AGAGACGTAGGGGAGAGGAG	AGCCAAAGTCCTCTCCTCAG
Snail-13	CCTGGGATGCAGTTGGTTTG	TTTCACGCCCATCAGAAGGA
Snail-14	TACAGGATTGCACCAGGGTT	TAATTAGTCTGGGTGGGGCC
Snail-15	GGGTCCTACTTTGGCTAGGG	CTAGGCAGGGAGGGATCTTT
Snail-16	GAAGGAAAGTGGAAAGCGGG	CTCCCACTTTAGCCTCCCAA
p16	GGCATCAGCAAAGTCTGAGC	CTGGGAGACAAGAGCGAAAC
GAPDH	GGTAGGGAGTTCGAGACCAG	TCAACGCAGTTCAGTTAGGC