Supplementary Figure Legends

Figure S1. Western analysis of CSB expression in normal and CS primary fibroblasts. Immunoblotting was carried out with anti-CSB or anti-γ-tubulin antibody. The latter was used as a loading control.

Figure S2. (**A**) Analysis of hTERT expression in GM10905 cells. One thousand cells of hTERT-immortalized GM10905 cells were used to measure telomerase activity. TSR8 was used as a positive control whereas 3-[(3-cholamidopropyl)-dimethylammonio]-1-propanesulfonate buffer (CHAPS) was used as a negative control. (**B**) Analysis of metaphase chromosomes from hTERT-GM10905. Chromosomes were stained with DAPI and false colored in red. Telomeric DNA was detected by FISH using a FITC-conjugated (CCCTAA)₃-containing PNA probe (green).

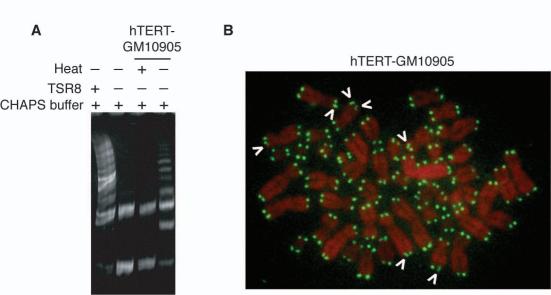
Figure S3. Analysis of metaphase chromosomes from hTERT-GM10905 stably expressing either the vector alone or wild type CSB. Chromosomes were stained with DAPI and false colored in red. Telomeric DNA was detected by FISH using a FITC-conjugated (CCCTAA)₃-containing PNA probe (green). Open arrows represent telomere doublets.

Figure S4. Analysis of metaphase chromosomes from HeLaI.2.11 stably expressing either the vector alone or pRS-shCSB. Chromosomes were stained with DAPI and false colored in red. Telomeric DNA was detected by FISH using a FITC-conjugated (CCCTAA)₃-containing PNA probe (green). Open arrows represent telomere doublets.

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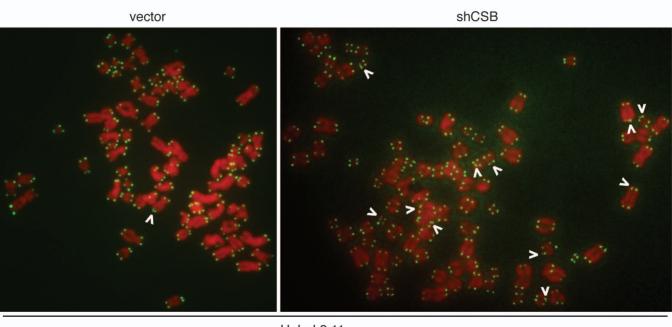
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hTERT-GM10905-vector hTERT-GM10905-CSB

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HeLal.2.11

Supplementary Table S1. Summary of normal and CS primary fibroblast cell lines used.

Cell Line	Age at Biopsy	CSB Allele 1	CSB Allele 2	Source
GM38	9 YR	Normal	Normal	NIGMS
GM9503	10 YR	Normal	Normal	NIGMS
GM8399	19 YR	Normal	Normal	NIGMS
GM10901	42 YR	R735X	Normal	NIGMS
GM10905	10 YR	R735X	R735X	NIGMS
GM739	3 YR	K377X	R857X	NIGMS
GM1428	8 YR	N/A	N/A	NIGMS