**Supplementary Table S1.** shRNAs and primer sequences

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| Gene | Sequence (5’ – 3’) |
| CBX2 shRNAs |  |
| 0 | GGCCTTCCAGAAGAAGGAACA |
| 1 | GCTGGTCCTCCAAACATAACA |
| 2 | GCTCCCTCCAAATCCAAGTCC |
| shCtrl | GCAGCAACTGGACACGTGATCTTAA |
| *PTEN* | Forward primer: TGGATTCGACTTAGACTTGACCT |
|  | Reverse primer: GGTGGGTTATGGTCTTCAAAAGG |
| *GAPDH* | Forward primer: TGACAACTTTGGTATCGTGGAAGG |
|  | Reverse primer: AGGCAGGGATGATGTTCTGGAGAG |
| *PTEN* promotor Site 1 | Forward primer: CAGAATAGGTCGATGTAGAGC |
|  | Reverse primer: GGGAACTGGTTACACAAGCAC |
| *PTEN* promotor Site 2 | Forward primer: GGATGAGGTGATACACGCTG |
|  | Reverse primer: GACCACGCTGCTCAGTGTAG |
| *PTEN* promotor Site 3 | Forward primer: TCGCCTGTCACCATTTCCAG |
|  | Reverse primer: AGACGAATAATCCTCCGAACG |