

Supplementary Table 1. Primers used in the study*.

Target name	Primer sequence (5'-3')
Artemis	Fp = CAGTTCACCGAGACTCAGAGGA Rp = CAGGCTGCTTTTCTGATACTGC
ATM	Fp = CAGGGCAAAATCCTTCCTACTC Rp = CCATGGTTTTCTCACAGCATCT
ATR	Fp = GCGAGAGCCTTTAATGAGTGTC Rp = TACACCTTG TAGTCGCTGCTC
DNAPKcs	Fp = AAGGAGGGTCATGGATTCAAGA Rp = ACCCAGGAGTAGCTCATCAAA
H2AX	Fp = GTTCCCAGTGGGCCGTGTA Rp = CGGTGAGGTA CTCCAGCACT
Ku70	Fp = GTGATCTCCGAGATACAGGCAT Rp = GCTGGATTCTCAAAGTGAACC
Ku80	Fp = GCGGTGGCTTTTCTCATATCA Rp = GCATTCAACTGTGCCTCGGT
Ligase4	Fp = AGCCAGACAAAAGAGGTGAAGG Rp = ATCATTCCACCCCGTGATCCT
MRE11	Fp = AGTAACCCAAGCCATACAAAGC Rp = CCTCCACTATAGTCCACTCGCA
NBS1	Fp = CAGAGCAAGCAGATACATGGGA Rp = AGCTTGTTTTGCAGGACTCCTT
P53	Fp = CCTGAGGTTGGCTCTGACTGTA Rp = TCCGTCCCAGTAGATTACCAC
Rad50	Fp = GAACTGCTTGTTGAACAGGGTC Rp = CACTGAATGGTCCACGCTCAAA
XRCC4	Fp = TCTCTGGGTTGGCTTCAGCT Rp = GCTGATTCTCCTGAGGAGCCAT
SP1	Fp = AAACGTACACACACAGGTGAGA Rp = AAGTGCCCACTCAGAGCTA
TRF2	Fp = GAGGACAGCCAGAGTACTGAG Rp = CCACTTGCCTTTGGGTACTTTG
Ampicillin resistance (Amp ^r)	Fp = CATCTTACGGATGGCATGAC RP = CAACGATCAAGGCGAGTTAC

*Primers used for KSHV whole episome ChIP assay have been described previously (PLoS Pathog. 2011 November; 7(11): e1002365.). Sequences of primers are available on request. TR primers have been described previously (J. Virol. 2011, 85(13):6148).