Supplemental figure legends

Fig S1 Coding potential analysis of rightward (aquamarine rightward arrow) and leftward (Red leftward arrow) transcripts. Analysis was performed using the "Coding Potential Calculator" which incorporates reading frame length as well as analysis of candidate ORF coding sequence homologues. Candidate ORFs are indicated by blue bars/arrows and Blast homologies are indicated by orange bars.

Fig S2 Sense and antisense read coverage across the *oriP* region extending from upstream from the EBER2 gene to just downstream from the BCRF1 gene. Number of reads covering each genomic position is indicated by positive values (in turquois) for sense reads and negative values (red) for antisense reads.

Fig S3 Expandable view of Fig. 3 showing hairpin calculations for oriPts. (A) Covariance hairpin structures were predicted in the FR region of *oriP* across 5 EBV strains (Akata, EBV1, EBV2, Mutu and GD1) and Macacine herpesvirus 4 (MHV4). The average pairwise sequence identity (APSI) was calculated for the regions where the hairpin structures were identified in the 6 virus strains. The Z-scores were calculated for the hairpin structures in sense (Fwd) and antisense (Rev) transcripts in each virus. (B) Predicted hairpin structures for oriPtR (left) and oriPtL (right) with associated folding free energy values. Editing frequencies for each adenosine through each hairpin are shown. Heat maps show relative average editing for As, Us, Gs, and Cs located at positions -2, -1, 0 and +1 relative to the edited adenosine residue (0 position). (C) Stem annealing of OriP repeats.

Fig S4 Genomic locations of previously discovered NONO and SFPQ binding sequences across the Akata EBV genome (upper panel) with an expanded view of these sites in the *oriP* region (lower panel).

Supplemental Tables

Table S1 RNA editing statistics for sense and antisense FR region.

Table S2 RNA editing statistics for EBV microRNAs.

Table S3 Gene expression values for core paraspeckle components and the RNA editing enzyme, ADAR, as determined by RNA-seq in the Akata induction/oriPtL-GapmeR experiment and in the Mutu control and oriPtL retroviral expression vector transductants.

Table S4 Gene expression values for EBV genes as determined by RNA-seq in the Akata induction/oriPtL-GapmeR experiment and in the Mutu control and oriPtL retroviral expression vector transductants.

Table S5 Gene expression patterns observed in EBseq analysis and numbers of statistically significant viral genes attributed to each pattern.

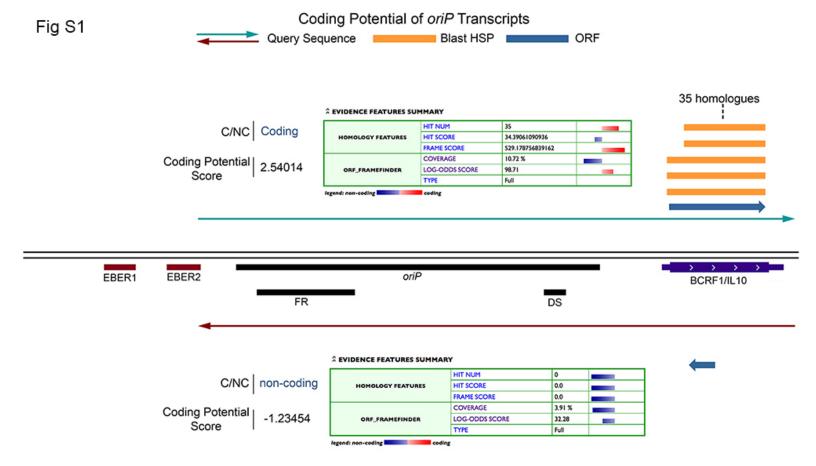


Fig S2

Akata Time course reactivation (ribodepleted RNA)

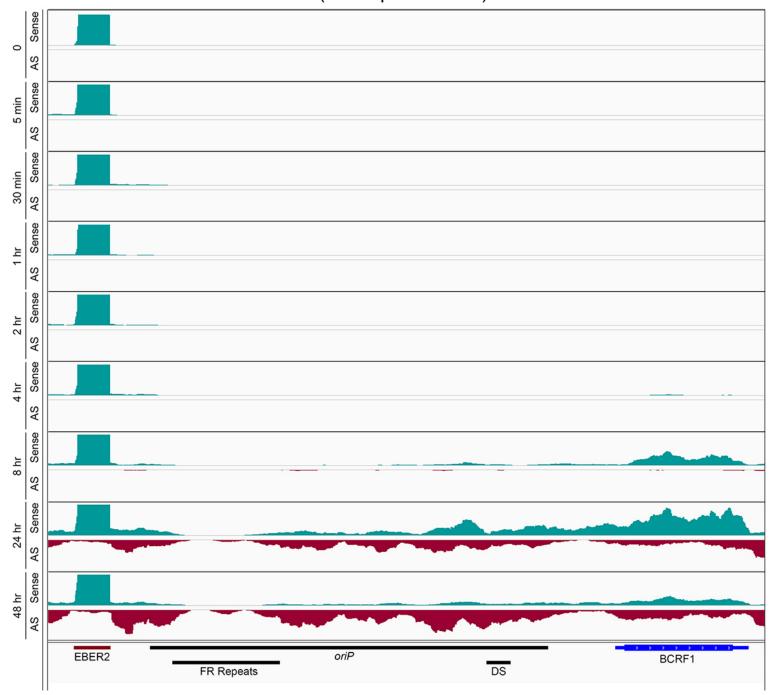


Fig	S3

EBV genome	Coordinates	APSI						Z-score	
		Akata	B85-8	AG872	Mutu	GD1	MHV4	FWD	REV
Akata (KC207813.1)	7458-7927	1	0.75	0.82	0.76	0.74	0.66	-4.32	-4.31
B95-8 (NC_007605.1)	7492-8148	0.75	1	0.83	0.88	0.88	0.73	-4.22	-4.07
AG876 (NC_009334.1)	7450-7915	0.82	0.83	1	0.82	0.83	0.69	-4.25	-4.24
Mutu (KC207814.1)	7545-8014	0.76	0.88	0.82	1	0.9	0.71	-3.93	-3.8
GD1 (AY961628.3)	7363-8087	0.74	0.88	0.83	0.9	1	0.72	-4.18	-4.01
MHV4 (NC_006146.1)	7512-7936	0.66	0.73	0.69	0.71	0.72	1	-3.79	-4.13

