

Supplementary data for:

Microhomology mediated deletion and gene conversion in African trypanosomes

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Table S1: MMEJ-junctions in 11 P_{ES} survivors.

Microhomology (MH) class	Junction type	Sum Survivors	<i>RFP</i> Δ	<i>PAC</i> Δ	Total Δ
1	X	7	52	20	81
4	X	1	231	47	291
	xa	1	227	57	291
10	x	1	58	454	522
15 ^a	x	1	700	24	732

^a The novel junction is illustrated below.
See Table 1 for other details.

Junction 15:

```
R GAATTCGATATCAAGCTTATGGTGCGCTCCTC  
GAATTCGATATCAAGCCACGGTGCGCCTCGC  
P CGCACCGAGTACAAGCCACGGTGCGCCTCGC
```

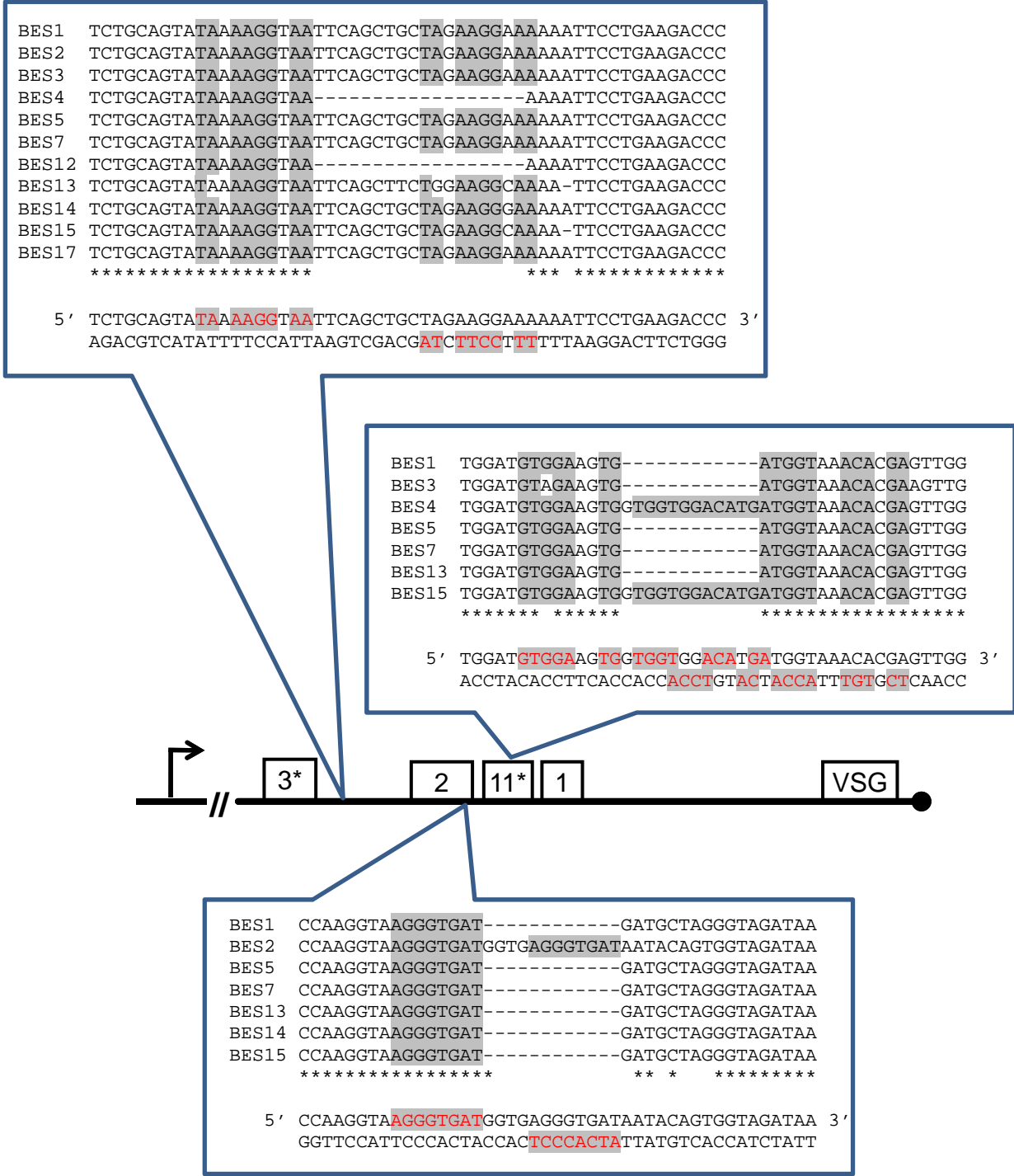


Figure S1: Putative MMEJ-'scars' within VSG expression site (ES) sequences. The putative parental and deleted sequences are aligned. Microhomologies are on a grey background and are also illustrated on both DNA strands below each alignment (red lettering). * ESAG pseudogene in some or all ESs. ESs are polycistronic and telomeric; the arrow indicates the promoter. These deletions may have arisen following DSB or during DNA replication.