

# Supporting Information

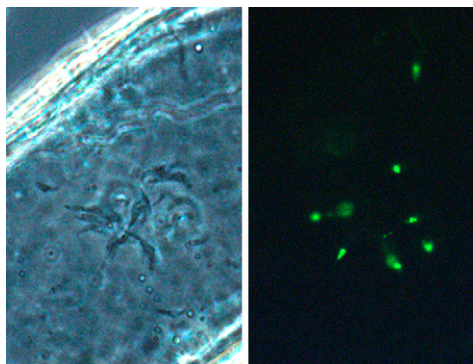
Peacock et al. 10.1073/pnas.1019423108

Table S1. Summary of genotype data for parental and progeny clones

Clone*	Fluorescence	Microsatellite locus <sup>†</sup>			
		II-PLC	IV-TB4/7	VII-TB7/9	IX-TB9/6
J10	None	ab	ab	aa	ab
1738	Red	cd	cd	bb	cd
A clone 1	Red	<b>bc</b>	<b>ac</b>	<b>ab</b>	<b>bd</b>
A clone 2	None	ab	ab	aa	ab
B clone 1	None	<b>bd</b>	<b>ac</b>	<b>ab</b>	<b>ad</b>
B clone 2	Red	<b>ac</b>	<b>ac</b>	<b>ab</b>	<b>ac</b>
B clone 3	Red	<b>ac</b>	<b>ad</b>	<b>ab</b>	<b>bc</b>

\*Crosses were (A) J10 *YFP::DMC1* × 1738 mRFP and (B) J10 *YFP::HOP1* × 1738 mRFP.

<sup>†</sup>Alleles inherited from both parents are in boldface.



**Movie S1.** Attached epimastigotes expressing *YFP::DMC1* in a tsetse SG. A group of live attached trypanosomes with fluorescent nuclei is shown in the center of a thick-walled region of the gland dissected at 21 d postinfection. (Left) Phase contrast. (Right) Frames 1–9, epifluorescence; frames 10–13, simultaneous phase and epifluorescence.

[Movie S1](#)



**Movie S2.** Unattached epimastigote from the SG of a tsetse fly expressing *YFP::MND1* and *YFP::PFR1*. Frames 1–6, phase; frames 7–27, epifluorescence.

[Movie S2](#)



**Movie S3.** Unattached epimastigote from the SG of a tsetse fly expressing *YFP::HOPI* and *YFP::PFR1*. Frames 1–11, epifluorescence; frames 12–26, phase.

[Movie S3](#)