

Supporting Information

Donnianni and Symington 10.1073/pnas.1309800110

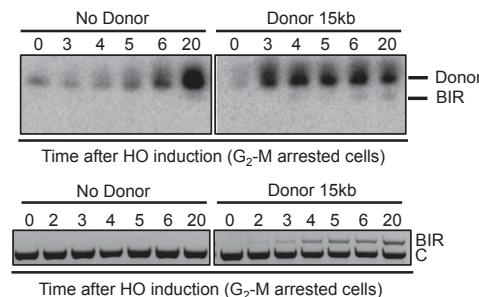


Fig. S1. Detection of the break-induced replication (BIR) translocation product in G₂-M arrested cells by pulsed-field gel electrophoresis (PFGE). Lower panel shows the BIR product detected by PCR for the same samples.

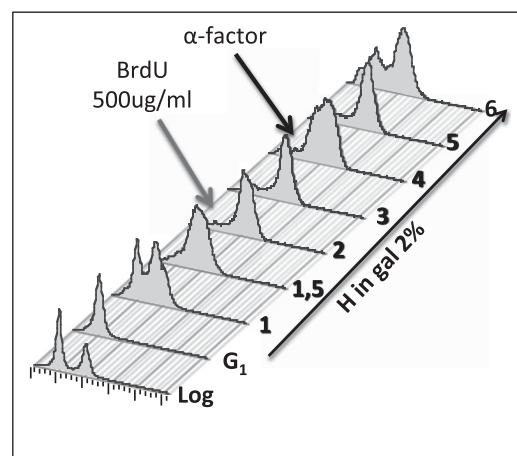


Fig. S2. Protocol for BrdU incorporation. Cells were arrested in G₁ phase then released into medium containing 2% galactose to induce HO. BrdU was added 2 h later when bulk DNA synthesis was completed.

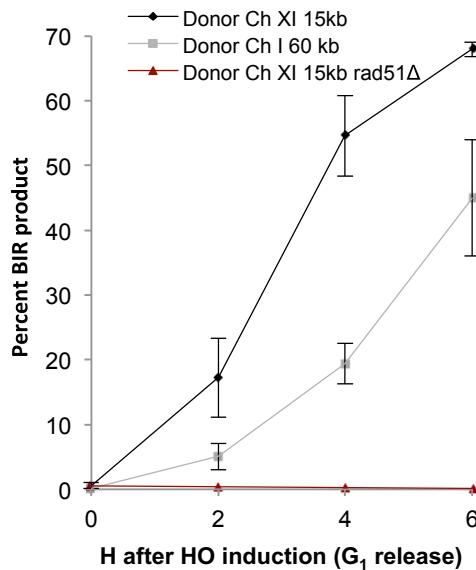


Fig. S3. Kinetics of BIR product formation (PCR) for the 15- and 60-kb donor strains, and the *rad51* Δ control in G₁ released cells (accompanying data for Fig. 4E).

Table S1. Yeast Strains

Strain no.	Genotype*	Source
E873 (LSY2270)	<i>MATa URA3::GPD-TK7</i>	P. Pasero (Institute of Human Genetics, Montpellier, France)
LSY1802	<i>MATa-inc ade3::GAL-HO leu2::SFA1</i>	A. Aguilera (University of Sevilla, Sevilla, Spain)
LSY2751-1.6	<i>MATa-inc lys2::NatMX4 AVT2::lys-HO_{cs}::KanMX6 ade3::GAL-HO URA3::TK bar1::LEU2</i>	Present study
LSY2743-1.1	<i>MATa-inc lys2::NatMX4 AVT2::lys-HO_{cs}::KanMX6 ade3::GAL-HO URA3::TK bar1::LEU2 COS9::TRP1-ys2 Ch XI 15 kb donor</i>	Present study
LSY2752-2.1	<i>MATa-inc lys2::NatMX4 AVT2::lys-HO_{cs}::KanMX6 ade3::GAL-HO URA3::TK bar1::LEU2 PTK1::TRP1-ys2 Ch XI 70 kb donor</i>	Present study
LSY2753-3.8	<i>MATa-inc lys2::NatMX4 AVT2::lys-HO_{cs}::KanMX6 ade3::GAL-HO URA3::TK bar1::LEU2 COS9::TRP1-ys2 pol32::KANMX6</i>	Present study
LSY2824-21D	<i>MATa-inc lys2::NatMX4 AVT2::lys-HO_{cs}::KanMX6 ade3::GAL-HO URA3::TK bar1::LEU2 COS9::TRP1-ys2 rad51::LEU2</i>	Present study
LSY2796-12D	<i>MATa-inc lys2::NatMX4 AVT2::lys-HO_{cs}::KanMX6 ade3::GAL-HO URA3::TK bar1::LEU2 ERV46::TRP1-ys2 Ch I 60 kb donor</i>	Present study
LSY2818-7A	<i>MATa-inc lys2::NatMX4 AVT2::lys-HO_{cs}::KanMX6 ade3::GAL-HO URA3::TK bar1::LEU2 20 kb CHVI::TRP1-ys2</i>	Present study
LSY2767-113D	<i>MATa-inc lys2::NatMX4 AVT2::lys-HO_{cs}::KanMX6 ade3::GAL-HO URA3::TK bar1::LEU2 SYN8::TRP1-ys2 Ch I 128 kb donor</i>	Present study

*All strains are of the W303 genotype (*his3-11, 15 leu2-3, 112 trp1-1 ade2-1 can1-100*); only mating type and difference from the standard genotype are listed.