

Supplemental Materials

Molecular Biology of the Cell

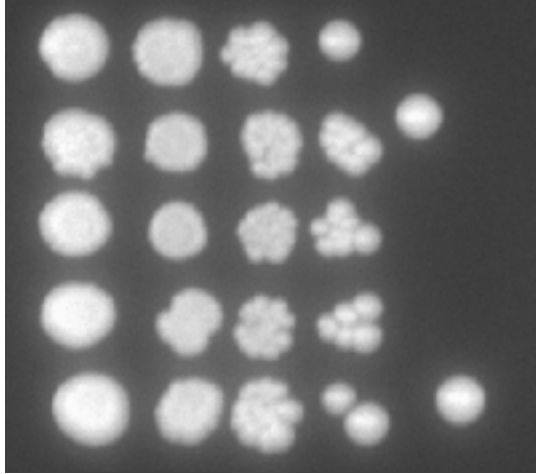
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Supplemental Figure 1. The GEF Domains of Lte1 Promote Mitotic Exit in the Absence of *SPO12*

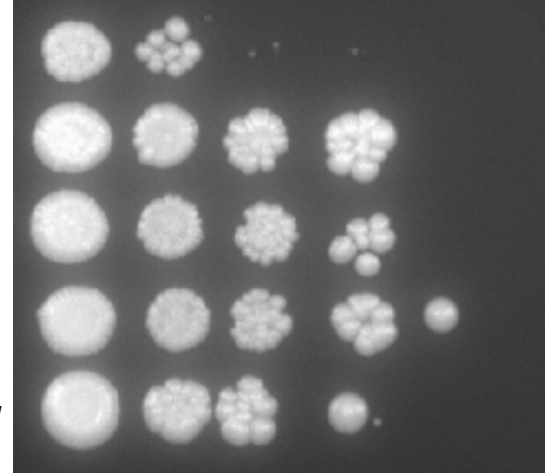
A-B) Ten-fold serial dilutions of overnight cultures of *lte1* Δ (A18591), *lte1* Δ *pLTE1-LTE1* (AS246), *lte1* Δ *spo12* Δ *pLTE1-LTE1* (AS245), *lte1* Δ *pLTE1-lte1* Δ *EcoRI* (AS243) and *lte1* Δ *spo12* Δ *pLTE1-lte1* Δ *EcoRI* (AS241) were spotted onto YEPD+ade+trp plates and incubated at either 30°C or 15°C.

A

YPD 30°C

*lte1Δ**lte1Δ LTE1**lte1Δ spo12Δ LTE1**lte1Δ lte1-ΔEcoRI**lte1Δ spo12Δ lte1-ΔEcoRI***B**

YPD 15°C



Supplemental File 1: Strains Used in this Study

A1931	<i>MATa, DBF2-3MYC</i>
A2472	<i>MATa, bub2::HIS3, DBF2-3MYC</i>
A2587	<i>MATa, ade2-1, leu2-3, ura3, trp1-1, his3-11,15, can1-100, GAL, psi+ (Wild type W303)</i>
A4874	<i>MATa, spo12::HIS3</i>
A18591	<i>MATa, lte1::kanMX6</i>
A21299	<i>MATa, Kin4(S508A):Kin4'3'UTR:KanMx6</i>
A23686	<i>MATa, KanMx6:GAL-URL-3HA-LTE1</i>
A24084	<i>MATa, KanMx6:GAL-URL-3HA-LTE1, Kin4(S508A):Kin4'3'UTR:KanMx6,</i>
A24543	<i>MATa, KanMx6:GAL-URL-3HA-LTE1, spo12::HIS3</i>
A26170	<i>MATa, Kin4(S508A)-GFP:HisMx6, ura3::pRS306-mCherry-TUB1::URA3, bub2Δ:KanMx6, lte1Δ:NatMx6</i>
A26874	<i>MATa, Kin4(S508A)-GFP:HisMx6, ura3::pRS306-mCherry-TUB1::URA3, bub2::HIS3</i>
A29611	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, spo12::HIS3, LTE1-8N:LTE1-3'UTR:TRP1, kin4::TRP1</i>
A33138	<i>MATa, ura3::pAFS125-TUB1p-GFPTUB1::URA3</i>
A35146	<i>Mata, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, swe1Δ:KanMx6</i>
A35432	<i>MATa, kin4::TRP1, DBF2-3MYC</i>
A35603	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, kin4::TRP1</i>
A35699	<i>MATa, leu2::pTEF1-osTIR::LEU2, ura3::pAFS125-TUB1p-GFPTUB1::URA3</i>
A35700	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, spo12::HIS3</i>
A35707	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3</i>
A36048	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, kin4::TRP1, spo12::HIS3</i>
A36082	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, bub2::HIS3</i>
A36268	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, kin4::TRP1, LTE1-8N:LTE1-3'UTR:TRP1</i>
A36357	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, LTE1-8N:LTE1-3'UTR:TRP1</i>
A36358	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, spo12::HIS3, LTE1-8N:LTE1-3'UTR:TRP1</i>

A36544	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, bmh1::KanMX6</i>
A36603	<i>MATa, ura3::pAFS125-TUB1p-GFPTUB1::URA3, bub2::HIS3, spo12::HIS3, lte1Δ::NatMx6,</i>
A36604	<i>MATa, ura3::pAFS125-TUB1p-GFPTUB1::URA3, bub2::HIS3, spo12::HIS3</i>
A36605	<i>MATa, ura3::pAFS125-TUB1p-GFPTUB1::URA3, spo12::HIS3</i>
A36607	<i>MATa, ura3::pAFS125-TUB1p-GFPTUB1::URA3, spo12::HIS3, lte1Δ::NatMx6, kin4::KanMx6</i>
A36608	<i>MATa, ura3::pAFS125-TUB1p-GFPTUB1::URA3, bub2::HIS3</i>
A36620	<i>MATa, ura3::pAFS125-TUB1p-GFPTUB1::URA3, spo12::HIS3, kin4::KanMx6</i>
A36718	<i>MATa, ura3::pAFS125-TUB1p-GFPTUB1::URA3, lte1Δ::NatMx6</i>
A36722	<i>MATa, spo12::HIS3, dyn1Δ::HIS5Mx6, ura3::pRS306-mCherry-TUB1::URA3, DBF2-eGFP::KanMX6, bub2::LEU2</i>
A36782	<i>MATa, dyn1Δ::HIS5Mx6, ura3::pRS306-mCherry-TUB1::URA3, DBF2-eGFP::KanMX6, kin4::TRP1</i>
A36850	<i>MATa, dyn1Δ::HIS5Mx6, ura3::pRS306-mCherry-TUB1::URA3, DBF2-eGFP::KanMX6, bub2::LEU2</i>
A36851	<i>MATa, spo12::HIS3, dyn1Δ::HIS5Mx6, ura3::pRS306-mCherry-TUB1::URA3, DBF2-eGFP::KanMX6, kin4::TRP1</i>
A36852	<i>MATa, dyn1Δ::HIS5Mx6, ura3::pRS306-mCherry-TUB1::URA3, DBF2-eGFP::KanMX6</i>
A36965	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, bub2::HIS3,spo12::HIS3</i>
A37134	<i>MATa, spo12::HIS3, dyn1Δ::HIS5Mx6, ura3::pRS306-mCherry-TUB1::URA3, DBF2-eGFP::KanMX6</i>
A37483	<i>MATa, Dyn1-3V5-AID:KanMX, leu2::pTEF1-osTIR::LEU2, kar9::HIS5, ura3::pAFS125-TUB1p-GFPTUB1::URA3, rts1Δ::NatMx6</i>
A38120	<i>MATa, Kin4(S508A)-GFP:HisMx6, ura3::pRS306-mCherry-TUB1::URA3, bub2::HIS3 leu2::CgLEU2-pLTE1-lte1DecoRI, lte1Δ::NatMx6</i>
A38140	<i>MATa, ura3::pAFS125-TUB1p-GFPTUB1::URA3, kin4::KanMx6, lte1Δ::NatMx6</i>
A38141	<i>MATa, ura3::pAFS125-TUB1p-GFPTUB1::URA3, kin4::KanMx6</i>
A38199	<i>MATa, leu2::CgLEU2-pLTE1-LTE1, lte1::KanMX6, Kin4(S508A)-GFP:HisMx6, ura3::pRS306-mCherry-TUB1::URA3, bub2::HIS3</i>
A38247	<i>MATa, KanMx6:GAL-URL-3HA-LTE1, Kin4(S508A):Kin4'3'UTR:KanMx6, leu2::CgLEU2-pLTE1-LTE1</i>
A38260	<i>MATa, KanMx6:GAL-URL-3HA-LTE1, spo12::HIS3, leu2::CgLEU2-pLTE1-LTE1</i>
A38290	<i>MATa, Dyn1-3V5-AID:KanMX, ura3::pAFS125-TUB1p-GFPTUB1::URA3, spo12::HIS3, cdc15::HIS3, leu2:: CDC15-HA3-7A-LEU2, kar9::HIS5, his3::pGPD1-osTIR::HIS3</i>
A38294	<i>MATa, Dyn1-3V5-AID:KanMX, ura3::pAFS125-TUB1p-GFPTUB1::URA3, spo12::HIS3, cdc15::HIS3, leu2:: CDC15-HA3-LEU2, kar9::HIS5, his3::pGPD1-osTIR::HIS3</i>
A38963	<i>MATa, Dyn1-3V5-AID:KanMX, ura3::pAFS125-TUB1p-GFPTUB1::URA3, cdc15::HIS3, leu2:: CDC15-HA3-7A-LEU2, kar9::HIS5, his3::pGPD1-osTIR::HIS3</i>

A38964	<i>MATa, Dyn1-3V5-AID:KanMX, ura3::pAFS125-TUB1p-GFPTUB1::URA3, cdc15::HIS3, leu2::CDC15-HA3-LEU2, kar9::HIS5, his3::pGPD1-osTIR::HIS3</i>
AS184	<i>MATa, LTE1-GFP(S65T)::HIS3MX6 ura3-PRS306-mCherry-TUB1::URA3</i>
AS241	<i>MATa, lte1::kanMX6, leu::CgLEU2-pLTE1-lte1deltaEcoRI, spo12::HIS3</i>
AS243	<i>MATa, lte1::kanMX6, leu::CgLEU2-pLTE1-lte1deltaEcoRI</i>
AS245	<i>MATa, lte1::kanMX6, leu2::CgLEU2-pLTE1-LTE1 spo12::HIS3</i>
AS246	<i>MATa, lte1::kanMX6, leu2::CgLEU2-pLTE1-LTE1</i>
AS336	<i>MATa, KanMx6:GAL-URL-3HA-LTE1, Kin4(S508A):Kin4'3'UTR:KanMx6, leu::CgLEU2-pLTE1-lte1deltaEcoRI</i>
AS338	<i>MATa, KanMx6:GAL-URL-3HA-LTE1, spo12::HIS3, leu::CgLEU2-pLTE1-lte1deltaEcoRI</i>
AS351	<i>MATa, leu2::CgLEU2-pLTE1-lte1deltaEcoRI-GFP(S65T)::HIS3MX6 ura3-PRS306-mCherry-TUB1::URA3</i>
AS365	<i>MATa, lte1::kanMX6, leu2::CgLEU2-pLTE1-LTE1, KIN4(1-341)-GFP:HIS3Mx6, ura3::pRS306-mCherry-TUB1::URA3</i>
AS367	<i>MATa, lte1::kanMX6, leu2::CgLEU2-pLTE1-lte1deltaEcoRI, KIN4(1-341)-GFP:HIS3Mx6, ura3::pRS306-mCherry-TUB1::URA3</i>