

Figure S1

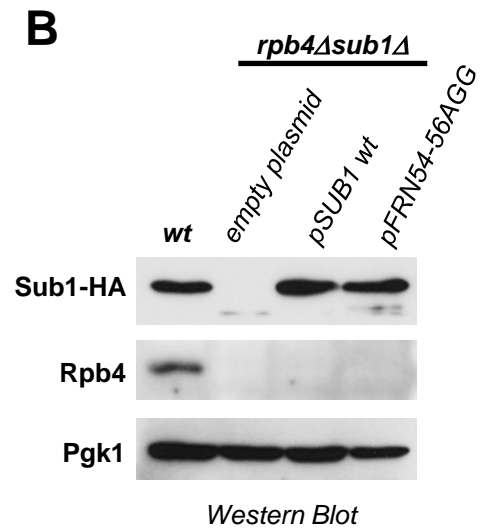
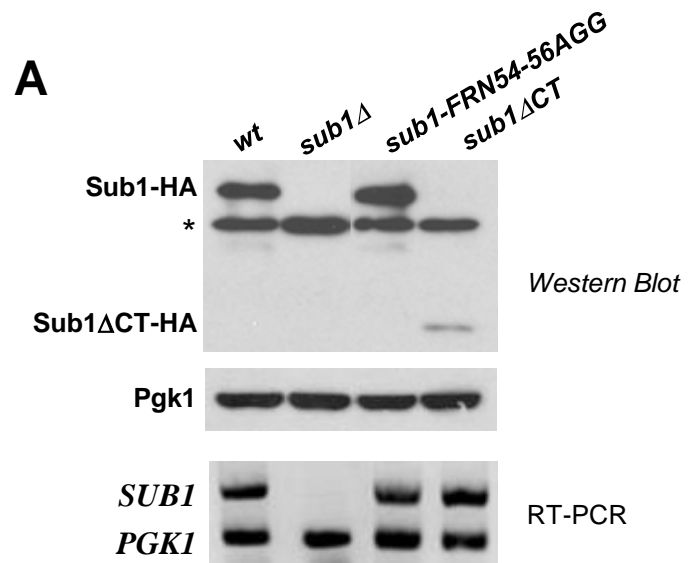


Figure S2

SUPPLEMENTARY DATA FIGURE LEGENDS

FIGURE S1.

Genetic interaction between *SUB1* and *RPB4-7*. (A) *SUB1* overexpression exacerbates the slow growth phenotype of *rpb4Δ* strain at 28°C. *SUB1* was overexpressed from the strong inducible promoter *GALI*. Serial dilutions (1:10) of *wt* and mutant strain with either and empty plasmid or containing *GAL-SUB1* were spotted on SC media containing glucose or galactose for 2-3 days. (B). C-terminal TAP tagging of Rpb7 causes growth phenotypes. *SUB1* deletion partially suppresses the growth phenotype of the Rpb7-TAP mutant strain at 28 and 34°C. Rad6-TAP strain was used as negative control.

FIGURE S2

(A) Left panel: WCE were prepared from *wt*, *sub1Δ*, *sub1-FRN54-56AGG* and *sub1ΔCT-HA* and analyzed by Western blotting using the indicated antibodies. Left panel: RT-PCR using RNA isolated from the same strains as in the left panel, showing *SUB1* and *PGK1* mRNA levels. (*) Unspecific band. Right panel: WCE were prepared from *wt and* double mutant *rpb4Δsub1Δ* strains transformed with the indicated plasmids and analyzed by Western blotting using the indicated antibodies.

STRAIN	GENOTYPE	SOURCE
OCSC0101	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1</i>	(1)
OCSC1412	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 Sub1-TAP::TRP1</i>	This study
OCSC1725	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 Sub1-TAP::TRP1 Rpb7-3HA::KanMX</i>	This study
OCSC1732	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 Rpb7-3HA::KanMX</i>	This study
OCSC2829	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 Sub1-TAP::TRP1 Rpb7-3HA::KanMX Rpb4-3HA::HIS3</i>	This study
OCSC1851	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 Sub1-TAP::TRP1 Rpb7-3HA::KanMX rpb4::HIS3</i>	This study
OCSC1434	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 Sub1-6HA::TRP1</i>	(2)
OCSC2002	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 Sub1-6HA::TRP1 rpb4::KanMX</i>	This study
OCSC1849	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 Rpb7-3HA::KanMX rpb4::HIS3</i>	This study
OCSC2773	<i>MATα, his3Δ1 leu2Δ0 met15Δ0 ura3Δ0 trp1Sub1-TAP::URA3</i>	This study
OCSC2774	<i>MATα, his3Δ1 leu2Δ0 met15Δ0 ura3Δ0 trp1Sub1-TAP::URA3 rpb1-L1397S</i>	This study
OCSC1164	<i>MATa,his3Δ1 leu2Δ0 ura3Δ0 Sub1-TAP-URA</i>	This study
OCSC1762	<i>MATa,his3Δ1 leu2Δ0 ura3Δ0 Sub1-TAP-URA rpb4::HIS3</i>	This study
OCSC0162	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 [pRS316]</i>	This study
OCSC0163	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 sub1::URA3</i>	(3)
OCSC2004	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 rpb4::HIS3 [pRS316]</i>	This study
OCSC2006	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 rpb4::HIS3 sub1::URA3</i>	This study
OCSC0830	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 [pADH1-SUB1, URA3]</i>	This study
OCSC2007	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 rpb4::HIS3 [pADH1-SUB1, URA3]</i>	This study
OCSC1519	<i>MATα, ura3-52 his3D200 leu2-3,112 trp1-D63 rpb1D187::HIS3 [pYEB220 2m LEU] [pRS316]</i>	This study
OCSC1520	<i>MATα, ura3-52 his3D200 leu2-3,112 trp1-D63 rpb1D187::HIS3 [pYEB220 2m LEU] sub1::URA3</i>	This study
OCSC1525	<i>MATα, ura3-52 his3D200 leu2-3,112 trp1-D63 rpb1D187::HIS3 [pYEB220-rpo21-4, LEU] [pRS316]</i>	This study
OCSC1526	<i>MATα, ura3-52 his3D200 leu2-3,112 trp1-D63 rpb1D187::HIS3 [pYEB220-rpo21-4, 2m LEU] sub1::URA3</i>	This study
D711-13B	<i>MATα, his3Δ1 leu2Δ0 met15Δ0 trp1 rpb1-L1397S</i>	(4)
OCSC1529	<i>MATα, ura3-52 his3D200 leu2-3,112 trp1-D63 rpb1D187::HIS3 [pRPB1,LEU] [pRS316]</i>	This study
OCSC1530	<i>MATα, ura3-52 his3D200 leu2-3,112 trp1-D63 rpb1D187::HIS3 [pRPB1,LEU] sub1::URA3</i>	This study
OCSC1534	<i>MATα, ura3-52 his3D200 leu2-3,112 trp1-D63 rpb1D187::HIS3 [pRPB1-rpb1-19,LEU] [pRS316]</i>	This study
OCSC1535	<i>MATα, ura3-52 his3D200 leu2-3,112 trp1-D63 rpb1D187::HIS3 [pRPB1-rpb1-19,LEU] sub1::URA3</i>	This study
OCSC1740	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 sub1::URA3 [pSUB1-HA-TRP]</i>	This study
OCSC1739	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 sub1::URA3 [pTRP]</i>	This study

OCSC1742	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 sub1::URA3 [pSUB1-FRN54-56AGG-HA-TRP]</i>	This study
OCSC1712	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 sub1::URA3 [pSUB1-ΔCT-HA-TRP]</i>	This study
OCSC1063	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 sub1ΔCT::TRP</i>	This study
OCSC2825	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1</i>	This study
OCSC2826	<i>MATα, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 sub1ΔCT::TRP</i>	This study
OCSC2827	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 rpb4::HIS3</i>	This study
OCSC2828	<i>MATα, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 sub1ΔCT::TRP rpb4::HIS3</i>	This study
OCSC2857	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 rpb4::HIS3 sub1::URA3 [pTRP]</i>	This study
OCSC2858	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 rpb4::HIS3 sub1::URA3 [pSUB1-HA-TRP]</i>	This study
OCSC2859	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 rpb4::HIS3 sub1::URA3 [pSUB1-FRN54-56AGG-HA-TRP]</i>	This study
OCSC2868	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 sub1ΔCT-6HA::TRP</i>	This study
OCSC2869	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 sub1ΔCT-6HA::TRP rpb4::HIS3</i>	This study
OCSC0979	<i>MATa, ade2-1 his 3-11,15 leu2-3,112 trp1-1 ura3-1 Sub1-6HA::TRP1 Fcp1-13MYC::HIS3</i>	This study
MKY1512	<i>MATα, his3Δ1 leu2Δ0 ura3Δ0 rpb1-CTDwt-NAT</i>	(5)
MKY1511	<i>MATα, his3Δ1 leu2Δ0 ura3Δ0 rpb1-CTD20-NAT</i>	(5)
MKY1508	<i>MATα, his3Δ1 leu2Δ0 ura3Δ0 rpb1-CTD11-NAT</i>	(5)
OCSC2761	<i>MATα, his3Δ1 leu2Δ0 ura3Δ0 rpb1-CTDwt-NAT [pRS316]</i>	This study
OCSC2763	<i>MATα, his3Δ1 leu2Δ0 ura3Δ0 rpb1-CTDwt-NAT sub1::URA3</i>	This study
OCSC2767	<i>MATα, his3Δ1 leu2Δ0 ura3Δ0 rpb1-CTD11-NAT pRS316</i>	This study
OCSC2769	<i>MATα, his3Δ1 leu2Δ0 ura3Δ0 rpb1-CTD11-NAT sub1::URA3</i>	This study
OCSC 2736	<i>MATa, his3Δ1 leu2Δ0 ura3Δ0 rpb1-CTDwt-NAT Sub1-TAP-URA</i>	This study
OCSC 2740	<i>MATa, his3Δ1 leu2Δ0 ura3Δ0 rpb1-CTD20-NAT Sub1-TAP-URA</i>	This study
OCSC 2744	<i>MATα, his3Δ1 leu2Δ0 ura3Δ0 rpb1-CTD11-NAT Sub1-TAP-URA</i>	This study
OCSC1610	<i>MATa, ade2 arg4 leu2-3,112 trp1-298 ura3-52 RPB7::TAP-K.l-URA3</i>	This study
OCSC1622	<i>MATa, ade2 arg4 leu2-3,112 trp1-298 ura3-52 RPB7::TAP-K.l-URA3 sub1::TRP1</i>	This study
OCSC1474	<i>MATa, ade2 arg4 leu2-3,112 trp1-298 ura3-52 RAD6::TAP-K.l-URA3</i>	This study
OCSC1655	<i>MATa, ade2 arg4 leu2-3,112 trp1-298 ura3-52 RAD6::TAP-K.l-URA3 sub1::KanMX</i>	This study
OCSC2137	<i>MATa, his3Δ1 leu2Δ0 met15Δ0 ura3Δ0 Spt5-HA::HIS3</i>	This study
OCSC2138	<i>MATa, his3Δ1 leu2Δ0 met15Δ0 ura3Δ0 Spt5-HA::HIS3 rpb4::KanMX</i>	This study

Table I. Yeast strains

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