

## **Supplemental Tables**

**The yeast FACT complex has a role in transcriptional initiation**

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**Supplemental Table 1. Strain List.**

DY150	<b>MATa</b>	<i>ade2 can1 his3 leu2 trp1 ura3</i>
DY3398	<b>MATa</b>	<i>ade2 can1 his3 leu2 trp1</i>
DY6220	<b>MATα</b>	<i>spt3::TRP1 ade2 can1 his3 leu2 lys2 trp1 ura3</i>
DY8107	<b>MATa</b>	<i>spt16-11 ade2 can1 his3 leu2 lys2 met15 trp1 ura3</i>
DY8154	<b>MATa</b>	<i>spt16-11 gcn5::HIS3 ade2 can1 his3 leu2 trp1 ura3</i>
DY8541	<b>MATa</b>	<i>toa2::His3MX + TOA2(YCp-URA3) ade2 can1 his3 leu2 trp1 ura3</i>
DY8552	<b>MATa</b>	<i>spt15::ADE2 spt16::HIS3 + TBP,SPT16(YCp-URA3) ade2 can1 his3 leu2 trp1 ura3</i>
DY8699	<b>MATa</b>	<i>spt16-11 toa2::His3MX + TOA2(YCp-URA3) ade2 can1 his3 leu2 ura3 met15</i>
DY8700	<b>MATa</b>	<i>spt16-11 toa2::His3MX + TOA2(YCp-URA3) ade2 can1 his3 leu2 met15 trp1 ura3</i>
DY8788	<b>MATα</b>	<i>spt16-11 ade2 can1 his3 leu2 met15</i>
DY8808	<b>MATa</b>	<i>nhp6a::URA3 nhp6b::ADE2 spt16-11 ade2 can1 his3 leu2 trp1 ura3</i>
DY8903	<b>MATa</b>	<i>spt16-11 spt3::TRP1 ade2 can1 his3 leu2 trp1 ura3</i>
DY8941	<b>MATa</b>	<i>rpd3::LEU2 spt16-11 ade2 can1 his3 leu2 lys2 trp1 ura3</i>
DY8946	<b>MATa</b>	<i>rpd3::LEU2 spt3::TRP1 spt16-11 ade2 can1 his3 leu2 lys2 met15 trp1 ura3</i>
DY8948	<b>MATa</b>	<i>rpd3::LEU2 spt8::KanMX spt16-11 ade2 can1 his3 leu2 trp1 ura3</i>
DY8950	<b>MATα</b>	<i>rpd3::LEU2 spt3::TRP1 spt8::KanMX spt16-11 ade2 can1 his3 leu2 lys2 trp1 ura3</i>
DY8969	<b>MATa</b>	<i>spt15::ADE2 spt16::HIS3 + TBP(G147W)(YCp-TRP1) + spt16-16a (YCp- LEU2) ade2 can1 his3 leu2 trp1 ura3</i>
DY8970	<b>MATa</b>	<i>spt15::ADE2 spt16::HIS3 + TBP(G147W)(YCp- TRP1) + spt16-12(YCp- LEU2) ade2 can1 his3 leu2 trp1 ura3</i>

- DY8971 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(G147W)(YCp- TRP1) + spt16-22(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*
- DY8972 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(G147W)(YCp- TRP1) + spt16-24(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*
- DY8977 **MATa** *spt16-11 spt3::TRP1 ade2 can1 his3 leu2 trp1*
- DY8978 **MATα** *spt16-11 spt8::KanMX ade2 can1 his3 leu2 lys2 trp1*
- DY8980 **MATa** *spt3::TRP1 ade2 can1 his3 leu2 lys2 met15 trp1*
- DY8981 **MATα** *spt8::KanMX ade2 can1 his3 leu2 lys2 met15 trp1*
- DY8985 **MATa** *nhp6a::URA3 nhp6b::ADE2 spt16-11 spt3::TRP1 ade2 can1 his3 leu2 trp1 ura3*
- DY9036 **MATa** *spt16-11 spt3::ADE2 URA3::spt3-401 ade2 can1 his3 leu2 lys2 trp1*
- DY9038 **MATa** *spt16-11 spt3::ADE2 spt15::LEU2 + TBP(G174E)(YCp- TRP1) ade2 can1 his3 leu2 lys2 trp1 ura3*
- DY9040 **MATα** *spt16-11 spt3::ADE2 URA3::spt3-401 spt15::LEU2 + TBP(G174E)(YCp-TRP1) ade2 can1 his3 leu2 lys2 met15 trp1*
- DY9071 **MATa** *spt16-11 gcn5::HIS3 spt3::TRP1 ade2 can1 his3 leu2 trp1 ura3*
- DY9398 **MATa** *spt16-11 spt3::ADE2 spt15::LEU2 + TBP(G174E)(YCp- TRP1) ade2 can1 his3 leu2 lys2 trp1*
- DY9446 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(E93G)(YCp- TRP1) + spt16-2(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*
- DY9447 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(E93G)(YCp- TRP1) + spt16-11(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*
- DY9448 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(E93G)(YCp- TRP1) + spt16-22(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*
- DY9449 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(E93G)(YCp- TRP1) + spt16-24(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*

- DY9450 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(E93G)(YCp- TRP1) + spt16-16a(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*
- DY9451 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(K133L,K145L)(YCp- TRP1) + spt16-16a(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*
- DY9452 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(G147W)(YCp- TRP1) + spt16-2(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*
- DY9453 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(G147W)(YCp- TRP1) + spt16-9a(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*
- DY9454 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(F237L)(YCp- TRP1) + spt16-16a(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*
- DY9455 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(G147W)(YCp- TRP1) + spt16-9a(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*
- DY9456 **MATa** *spt15::ADE2 spt16::HIS3 + TBP(L172P)(YCp- TRP1) + spt16-11(YCp-LEU2) ade2 can1 his3 leu2 trp1 ura3*

**Supplemental Table 2. Plasmid List.**

<u>Plasmid</u>	<u>Description</u>	<u>Source</u>
pRS314	YCp- <i>TRP1</i> Vector	(Sikorski and Hieter, 1989)
pRS315	YCp- <i>LEU2</i> Vector	(Sikorski and Hieter, 1989)
YCplac111	YCp- <i>LEU2</i> Vector	(Gietz and Sugino, 1988)
YEplac112	YEplac- <i>TRP1</i> Vector	(Gietz and Sugino, 1988)
YEplac195	YEplac- <i>URA3</i> Vector	(Gietz and Sugino, 1988)
M3415	TFIIB ( <i>SUA7</i> ) in YEplac- <i>URA3</i> plasmid	Mike Hampsey
M4806	TFIIA ( <i>TOA1</i> and <i>TOA2</i> ) in YEplac- <i>URA3</i> plasmid	this work
M4221	<i>NHP6A</i> in YEplac- <i>URA3</i> plasmid	(Biswas et al., 2004)
M4761	<i>NHP6A</i> in YEplac- <i>TRP1</i> plasmid	this work
M4827	TBP (wild type) in YEplac- <i>TRP1</i> plasmid	(Biswas et al., 2004)
pTM8	TBP(wild type) in YCp- <i>TRP1</i> plasmid	(Kobayashi et al., 2001)
M4471	TBP(E93G) in YCp- <i>TRP1</i> plasmid	(Eriksson et al., 2004)
M4468	TBP(K97R, L193S) in YCp- <i>TRP1</i> plasmid	(Eriksson et al., 2004)
M4655	TBP(I103T, K239Stop) in YCp- <i>TRP1</i> plasmid	(Eriksson et al., 2004)
M4325	TBP(L114F) in YCp- <i>TRP1</i> plasmid	(Arndt et al., 1994)
M4640	TBP(E129G) in YCp- <i>TRP1</i> plasmid	(Eriksson et al., 2004)
M4642	TBP(K133R) in YCp- <i>TRP1</i> plasmid	(Eriksson et al., 2004)
M4550	TBP(K133L,K145L) in YCp- <i>TRP1</i> plasmid	(Buratowski and Zhou, 1992)
M4404	TBP(K138T,Y139A) in YCp- <i>TRP1</i> plasmid	(Stargell and Struhl, 1995)
M4475	TBP(G147W) in YCp- <i>TRP1</i> plasmid	(Eriksson et al., 2004)
M4470	TBP(C164W) in YCp- <i>TRP1</i> plasmid	(Eriksson et al., 2004)
M4474	TBP(L172P) in YCp- <i>TRP1</i> plasmid	(Eriksson et al., 2004)
M4482	TBP(G174E) in YCp- <i>TRP1</i> plasmid	(Eisenmann et al., 1992)
M4511	TBP(E186M) in YCp- <i>TRP1</i> plasmid	(Biswas et al., 2004)

M4472	TBP(F227L) in YCp- <i>TRP1</i> plasmid	(Eriksson et al., 2004)
M4473	TBP(F237L) in YCp- <i>TRP1</i> plasmid	(Eriksson et al., 2004)
M4653	TBP(K239T) in YCp- <i>TRP1</i> plasmid	(Eriksson et al., 2004)
pTF128	<i>SPT16</i> (wild type) in YCp- <i>LEU2</i> plasmid	(Formosa et al., 2001)
pTF128-02	<i>spt16-2</i> (G132D) in YCp- <i>LEU2</i> plasmid	(Formosa et al., 2001)
pTF128-09a	<i>spt16-9a</i> (G836S, P838S) in YCp- <i>LEU2</i> plasmid	(Formosa et al., 2001)
pTF128-11	<i>spt16-11</i> (T828I, P859S) in YCp- <i>LEU2</i> plasmid	(Formosa et al., 2001)
pTF128-12	<i>spt16-12</i> (A417T, G568S, R569K, P599L) in YCp- <i>LEU2</i> plasmid	(Formosa et al., 2001)
pTF128-16a	<i>spt16-16a</i> (R204W, A273V, C290V, D318V) in YCp- <i>LEU2</i> plasmid	(Formosa et al., 2001)
pTF128-24	<i>spt16-24</i> (T434I) in YCp- <i>LEU2</i> plasmid	(Formosa et al., 2001)
M4614	<i>toa2</i> (wild type) in YCp - <i>LEU2</i> plasmid	(Ozer et al., 1998)
M4606	<i>toa2</i> (Y10G,R11Δ) in YCp - <i>LEU2</i> plasmid	(Biswas et al., 2004)
M4599	<i>toa2</i> (F71E) in YCp- <i>LEU2</i> plasmid	(Ozer et al., 1998)
M4601	<i>toa2</i> (W76A) in YCp - <i>LEU2</i> plasmid	(Ozer et al., 1998)
M4603	<i>toa2</i> (W76F) in YCp - <i>LEU2</i> plasmid	(Ozer et al., 1998)

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