

Supplementary Figure 1 Pof8 and Lsm3 bind to non-telomeric sites.

(a-d) Quantitative real-time PCR ChIP analysis to monitor association of Trt1, Pof8 and Lsm3 in indicated genetic backgrounds at (a) *ars2004*, (b) *non-ARS*, (c) *ade6*⁺ and (d) *his1*⁺. (See **Supplementary Table 4** for primers used in PCR.) Plots show mean values plus/minus SEM from at least 5 independent experiments. Raw data and statistical analysis are available in **Supplementary Dataset**.

<i>S. pombe</i>	1	MFVPROLVNRKIKAFGTGKNNISADGNNNKIKDEHYKH--NEASKEKSHSIS--GGLMLNQO-----DROLIEPLNPF	70
<i>S. cryophilus</i>	1	MFLPROLVNRNRLTRRPSISNKTPT--VDQEHKSI--NGS-----S-T--SSTRLARS-----AFKNIINDLKP	58
<i>S. octosporus</i>	1	MFLPROLVNIRNKPKK-THSKHTP-----TDKENENT--SSS-----S-A--SLNSITIP-----GPEVNDLKP	57
<i>S. japonicus</i>	1	MFVPROLVRRRPLPSKEPVENAPP-AKEAPVDPVVEYIPIHPSRKEPKKEAPDVHTTKTAT-----QKTEKNDL	73
<i>Saitoella</i>	1	MFVPRVTKRKLPHVPAEPPRALQPISTGS-----VAAQPESSNPADTSS--KHPPRAPT--GP---VQQPKKGP	71
<i>Pyronema</i>	1	MFLPROLVKRTYTAQHPTPKSSASKNKSLV--V--SPEKPKIEPVAVAA--SSTTAAP-----TNI	68
<i>Tuber</i>	1	MFVPROLVKRSKSLCQQQK-----E--STP-----APT-----EKSXTNDYDPTL	38
<i>Botryobasidium</i>	1	MSFNFPRAKTKNGKAAASSSSV--PPNPTPI-----FTQRPV-----EGPRLTPNTKGGKELSRIAKDE	70
<i>Termitomyces</i>	1	MASSFPFIPRTLVKQKQVSOHTSQASTSAQVPSFS-----LNT-----GTPHITKAKYSNE	53

Previously identified as a putative F-box in *S. pombe* Pof8

La-Motif?

<i>S. pombe</i>	71	ISAVDSILEYFHR-----EROKKXVHIAFLIO--ODDFWKGII--RPNPTONNLKYALSYVNAIF	127
<i>S. cryophilus</i>	59	IRAVECMIEVLYFR-----ERETKXFLHLYLIN--KOEFWOGL--KESPTQANLKQCVKRLKNEIF	115
<i>S. octosporus</i>	58	IRAVECMIEVLYFR-----ERKXKXFLHLSYLIN--KOEFWOGL--RMSPTQANLKQCVKTKMNEIF	114
<i>S. japonicus</i>	74	QDTVLSAVELQPMK-----NPDQDNFHLSLTLDDDEQKVASV--KEPAPQKTKSALKASKSSFF	132
<i>Saitoella</i>	72	AWKHVAVLEMLAPSS-----SVRFAAKST-----DGSSGVIHLSHIHS--HRSISNL--RPS	138
<i>Pyronema</i>	69	AEAVVYVLPQLSS-----ENPWTEWLDARRREI-----DGHYVHIAAVIE--CPYKEH--R	139
<i>Tuber</i>	39	AKEMVMTLELISDGHGIESGPPWEFSARMSV-----EGSDFIHLIHALD--CPLLAEM--	112
<i>Botryobasidium</i>	71	LATLLELISDSY-----AFWSAHLQAVS-----TSKDGQVPLRRLN--ESVSAHIPO	139
<i>Termitomyces</i>	54	YLNIFNLALSDY-----ALWVDPDLRIIDFSTESSSNEQDGFPLSRLLR--RSKVLGPLNI	130

La-Motif?

<i>S. pombe</i>	128	HF-----DNSSHMVIRNEENVL-----PLDIPLYDRITIVVEVPATLSNKSLE--LAGLGRKY	178
<i>S. cryophilus</i>	116	TF-----DEESHSTIRNEYK-L-----DPNEDLFRIVYVEPFPATLSNKPFFM--LAGLLREC	165
<i>S. octosporus</i>	115	TF-----DEGSHFIRKNEK-F-----DFNEDLFRIVYVEPFPATLSNKPFFM--LAGLLREC	164
<i>S. japonicus</i>	133	SF-----DENDFHVRNEAFPS-----RPTSMFDRIVYVESFPATMSAKPMH--LLGVLRPV	183
<i>Saitoella</i>	139	ET-----SADGVHVRORLPFN-----PLICTDDEMTIVVEVPKATDDALD--VAVALRKE	189
<i>Pyronema</i>	140	QT-----SODGVHRLSSST-----PRIPIEDSHTIYVEPVSVAATTPG--RUAL--ELH	187
<i>Tuber</i>	113	QT-----SKKRVYIRRRQEYLASSRSPAGHKCSSESTIYIEPHVTCITL-NPC--RVARMLSO	168
<i>Botryobasidium</i>	140	EVRIILFTEPSQGDWNPDAQMESEQGDAGGYEIRKQWHSIKD-AHPLWGTAWEGRITIVVENMPP	228
<i>Termitomyces</i>	131	EVRLLVSEPPSSSAWSGKR-----DTARDIGAYVRRRETQA-RP-SRTYSRQDWEVRTVYVES	212

La-Motif?

RRM1

<i>S. pombe</i>	179	-----LKEFLFYVDALGTPGYAFVILYKKVDSATSK-IPV-----PPGVLLLRKBEWT	217
<i>S. cryophilus</i>	166	-----FSGFLYLDIIPPEGYAFVVLASISOETLS-LVI-----POGMNLSREBEWT	224
<i>S. octosporus</i>	165	-----FSGFLYLDVIPPEGYAFVVLQASISOETLS-LVV-----POGKLLSREBEWT	213
<i>S. japonicus</i>	184	-----MRQWLPFTRKISTPEGYAFVECKSVQEQDNNH-VOA-----PSCFTLLSRAEWT	232
<i>Saitoella</i>	190	-----MSAEDPCLFIQVFLGRGYAVLILSSIVDESTVKN-LKM-----BMTVMVLRKBEWT	241
<i>Pyronema</i>	188	-----KTLPAELLPVYVTTNEHRSVALTISAPVQEQDNNHESW-----POGMNLSRBEWT	240
<i>Tuber</i>	169	-----SAMPKRLVQVVEAGDIAFAVILSAAVSHEDEENQCLW-----PKGMNLSRBEWT	221
<i>Botryobasidium</i>	229	PVPMVAVQSIITPNROSASEGNSLSEFGEIKCRGFVTFREVEHAERAVQEWPPWDTQEA	318
<i>Termitomyces</i>	213	PHAARVQGVILPPHQDKPG-----DAPITCKGFALVVFQDIDVETFLRQWPDWRHQDTDLQNP	294

RRM1

RRM1-C

<i>S. pombe</i>	228	NREKRYFENQHLVKASSSDVSN--S-----SNS-F-----PENRYPKLTKVEKQMTKSVSKTSQ	301
<i>S. cryophilus</i>	215	KREKMYMEYQADTMKSSSSAFFT--EPIITNQS--FRITNPDRASSSVQPESSERQFPLEDDCKK	301
<i>S. octosporus</i>	214	KREKMYMEYQADTMKSSSSAFFT--VPSLQNKQ-----NOAVLSSVTKQEHKHPLEALSDS	295
<i>S. japonicus</i>	233	LRREEMIDICIVGDSKRATORLQO--SQARRNOGALVRNSNLSPSPDPTK-----PSPHHE	305
<i>Saitoella</i>	242	RRDVEVORLIQSDYDALRRRRVSPERRREEGRLT-----PPREVGRITPPPLPS--LPPK	320
<i>Pyronema</i>	241	KRDAMKQKRHEATQ-----ARL--A-----S--HHVREMANAPPYIP-----KHTPE	290
<i>Tuber</i>	222	KRDEVEOHLRCRRPTSPARIRL--P--ERHDGASG-----SSVQMQWSDLPFIPFPVDP	298
<i>Botryobasidium</i>	319	ALKBEMLAYQHLIDLKSKPTASDPPEVVRSSOP--IPNSNQ-----PPPLIH--H-----	387
<i>Termitomyces</i>	295	RLKDBVLSYRRELVAEINAFODATERPVP-TLP--VNPKA-----ETAITN--HAAPAPLE	368

RRM1-C

xRRM2

<i>S. pombe</i>	302	PLTNKSTIHSLLSYVFSRQTO-----NIACEPMYIDYRKDETEAIIIRWKTPLHAETC	370
<i>S. cryophilus</i>	302	PLTNKSTIQSLLRYVFSRONP-----TATCEPMYIDYRKDETEAIVRWKSPBOALICV	370
<i>S. octosporus</i>	296	RLTNKSTIQSLLHYVFSRODP-----TATCEPMYIDYRKDETEAIVRWKSEOASTC	364
<i>S. japonicus</i>	306	PLTNKSNLQAFVHMKOAKO-----DNCVI-QYIDYRKDEVEAIVRWKYADOASTC	373
<i>Saitoella</i>	321	EETNKPTIQSFLAQVANROCYFDKNPSAQLEYDGAPIEDATDTNLVHVQYVDYTRPSD	410
<i>Pyronema</i>	291	LDATKPSISGFMRCVDRVQRKRDKADG-----KPEAIPQVVKINYYIDYKGTGCYLR	371
<i>Tuber</i>	299	PLTNKSTIHSLLSYVFSRQTO-----K--DRDGPPVNIYVYDYSKGLTAYLRKAQD	378
<i>Botryobasidium</i>	388	PLTNKSTIHSLLSYVFSRQTO-----K--DRDGPPVNIYVYDYSKGLTAYLRKAQD	452
<i>Termitomyces</i>	369	PLTNKSTIHSLLSYVFSRQTO-----VNSDGDYVDYDNRGMDSCHLRLATPE	437

Y330

R343

xRRM2

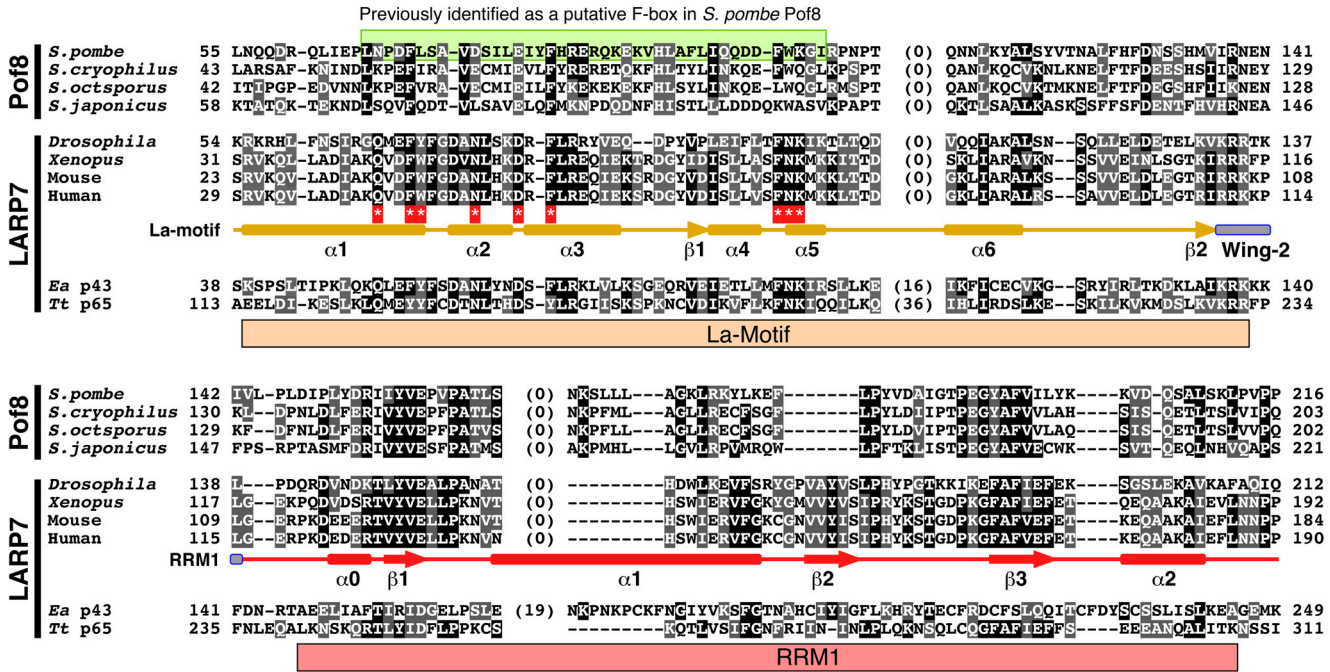
<i>S. pombe</i>	371	RAHRKKGSS--RPFLLAELITGEEBEKNYWRMKK	402
<i>S. cryophilus</i>	371	RAHRKHNKQ--GPFISAELEGESEESYWNLIYQKVKI	406
<i>S. octosporus</i>	365	RAHRKHKDK--GPFISAELEGESEESYWNLIYQKVKI	400
<i>S. japonicus</i>	374	VGIRT--A--SEFVDAELIACSEASWOLIPPKR	405
<i>Saitoella</i>	411	KGTISVGENS--ERKYVGVNLEGERERYWMEDEAKTIGKRRK--AGDQDRSRAVES--	485
<i>Pyronema</i>	372	KGKRE--KDCYVQGRLEGESEESYWNLIYQKVKI	455
<i>Tuber</i>	379	KGKRVINDSGRDMVVKATINVEGNEERIYV	407
<i>Botryobasidium</i>	453	EGRVA--SGDERPIIAEIVDGKREELVYRVEPKVRR--ESVLKARIGAGGHDA--	523
<i>Termitomyces</i>	438	TCKPS--DGTSPPVLMELVPCREQLVYRVEPKVRR--QAVQKALASVDASALNVGNGR	514

xRRM2

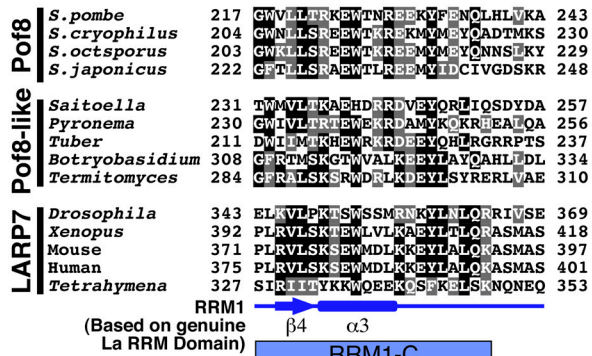
Supplementary Figure 2 Sequence alignment of fungal Pof8-like proteins.

Proteins that show homology to fission yeast Pof8 were initially identified by PSH-BLAST (Position-Specific Iterated BLAST) at NCBI (<https://blast.ncbi.nlm.nih.gov/Blast.cgi>) after 3rd iterations using *S. pombe* Pof8 sequence. (Accession numbers for fungal Pof8-like proteins used in alignment are listed in **Supplementary Table 5**.) Multiple sequence alignment was generated by Clustal Omega¹. Highly conserved residues within the xRRM domain that have been implicated in RNA recognition²⁻⁴ are highlighted with colored background. Amino acid residues that show at least 50% conservation among aligned sequences are highlighted in black (identical residues) or gray (similar residues, grouped as GAVLI, FYW, CM, ST, KRH, DENQ, and P). Regions corresponding to putative La-motif, RRM1 and xRRM2 are marked. In addition, the region previously suggested to correspond to F-box in *S. pombe* Pof8⁵ is indicated.

a

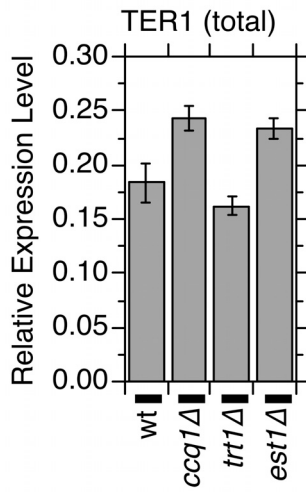


b

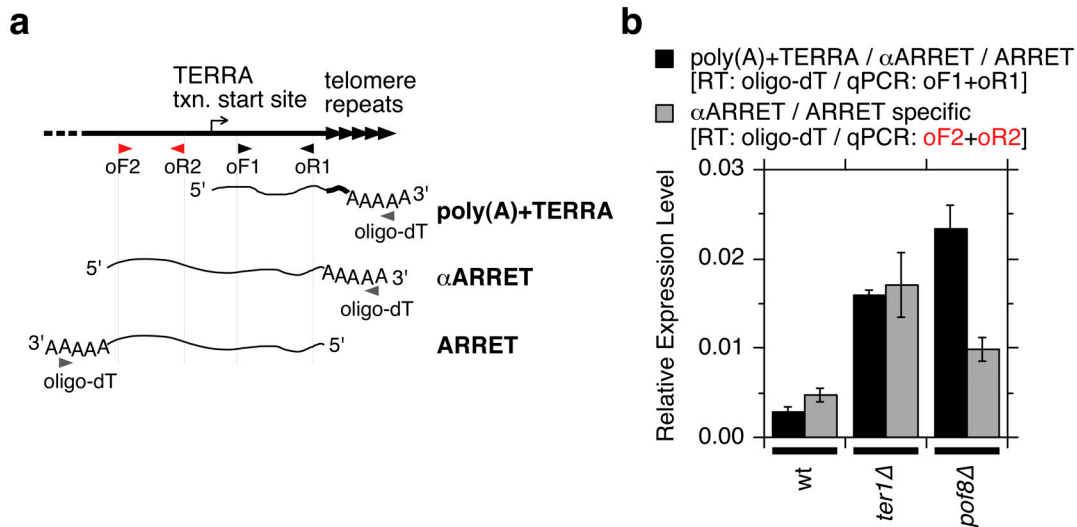


Supplementary Figure 3 Sequence alignment for the N-terminal region of Pof8 and LARP7 family proteins.

(a) Sequence alignment of N-terminal regions that correspond to La-motif and RRM1 motif from Pof8 proteins from *Schizosaccharomyces* species (*S. pombe*, *S. cryophilus*, *S. octosporus*, and *S. japonicus*), LARP7 proteins (*Drosophila*, *Xenopus*, mouse, and human), *Euplotes* p43, and *Tetrahymena* p65. Residues within the La-motif that are important for recognition of poly(U) sequence in human LARP7⁶ are indicated with red colored square with Asterisk (*) mark. Amino acid residues that show at least 50% conservation among aligned sequences are highlighted in black (identical residues) or gray. The secondary structures for the human LARP7⁶ La-motif and RRM1, and the putative F-box in *S. pombe* Pof8⁵ are also indicated. (b) Alignment for additional region of homology C-terminal to RRM1 (RRM-C) among fission yeast Pof8, fungal Pof8-like proteins, and LARP7 family proteins from indicated species. This region of mammalian LARP7 has previously been identified to show homology to the $\alpha 3$ helix region of RRM1 in genuine La proteins⁶. The secondary structure of a genuine La protein for this region is also indicated.

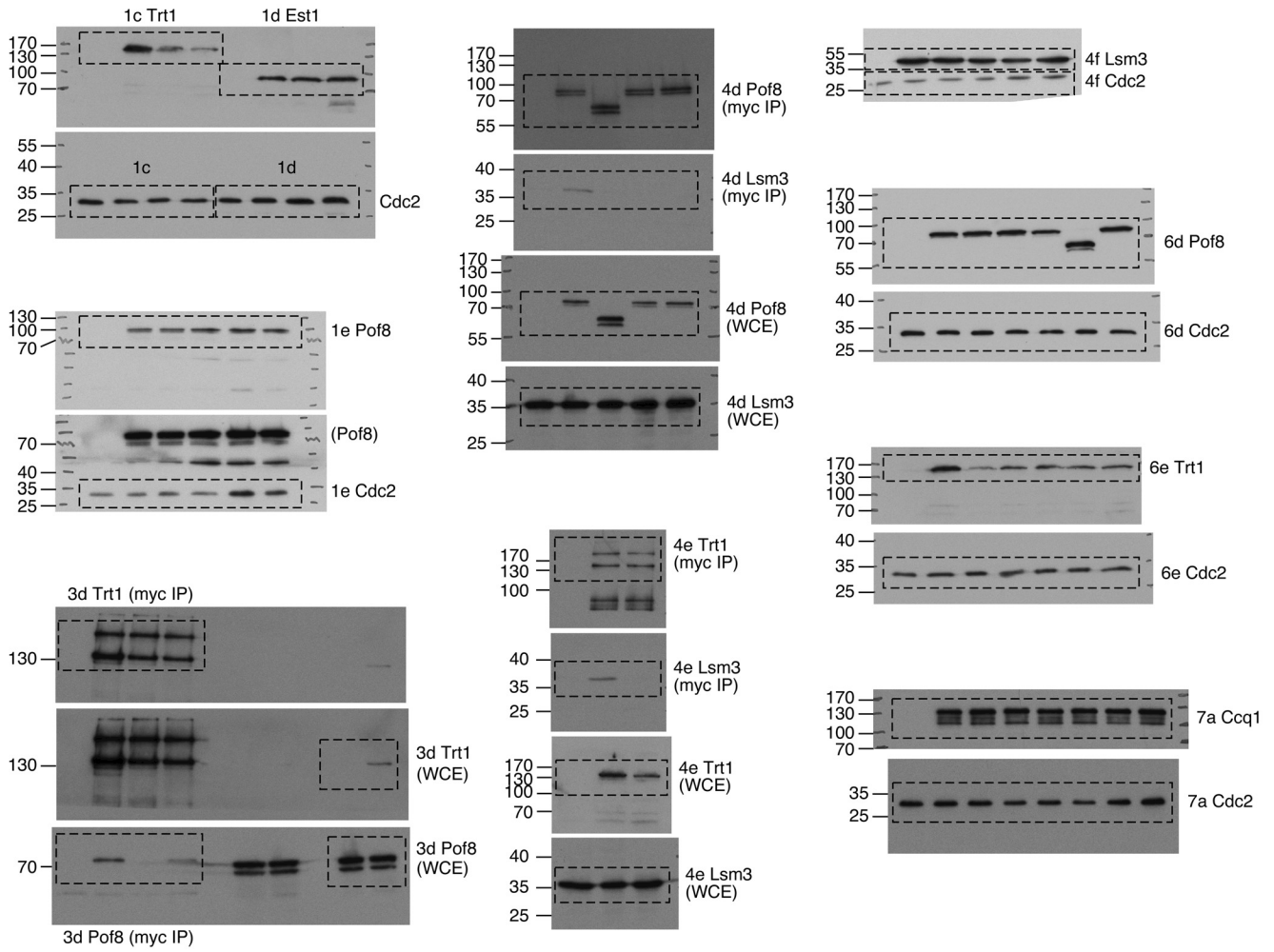


Supplementary Figure 4 TER1 RNA expression in *ccq1*Δ, *trt1*Δ, and *est1*Δ cells. TER1 RNA expression levels were normalized to *his1*⁺ mRNA expression. Error bars correspond to SEM from at least 3 independent experiments, and raw data and statistical analysis are available in **Supplementary Dataset**.



Supplementary Figure 5 Effect of *pof8Δ* on ARRET/αARRET expression.

(a) A schematic diagram indicating various poly(A)-tailed lncRNA species expressed at fission yeast telomere/sub-telomere regions^{7,8}. Locations of primers used in RT reaction (oligo-dT) and subsequent quantitative PCR analysis (oF2 and oR2) to specifically monitor ARRET and αARRET, but not poly(A)+TERRA are indicated, along with primers that potentially detect all three type of poly(A)-tailed lncRNAs (oF1 and oR1) (**Supplementary Table 4**). (b) Expression levels of ARRET/αARRET is not greatly affected by *pof8Δ* mutation. Expression levels of telomeric transcripts were normalized to *his1⁺* mRNA. Error bars correspond to SEM from at least 5 independent experiments. Raw data and statistical analysis are available in **Supplementary Dataset**.



Supplementary Figure 6: Uncropped western blot gels for indicated main figures. Areas of gels shown in main figures are marked with dashed boxes. Sizes of protein molecular weight markers (kDa) are also indicated.

Supplementary Table 1: Fission yeast strains used in this study.

Figure	Strain	Full Genotype	
1a	TN2411	wt	<i>h- leu1-32 ura4-D18 his3-D1</i>
	TN12119	<i>pof8Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i>
	AM17672	<i>pof8Δ trt1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1-2::his3⁺ pof8Δ::kanMX6</i>
	TN17261	<i>pof8Δ rad52Δ⁺</i>	<i>h- leu1-32 ura4-D18 his3-D1 rad52Δ-D2::LEU2 pof8Δ::kanMX6</i>
1b	TN2411	wt	<i>h- leu1-32 ura4-D18 his3-D1</i>
	TN12119	<i>pof8Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i>
	AG14003	<i>taz1Δ</i>	<i>h- leu1-32 ura4-D18 ade6-M210 his3-D1 taz1-2::ura4⁺</i>
	AM17697	<i>pof8Δ taz1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 taz1-2::ura4⁺ pof8Δ::kanMX6</i>
	YTC9370	<i>rap1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 rap1::ura4⁺</i>
	AM17700	<i>pof8Δ rap1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 rap1::ura4⁺ pof8Δ::kanMX6</i>
	YTC8555	<i>poz1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 poz1::natMX6</i>
	AM17701	<i>pof8Δ poz1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 poz1::natMX6 pof8Δ::kanMX6</i>
	YTC8432	<i>rif1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 rif1Δ::ura4⁺</i>
	AM17695	<i>pof8Δ rif1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 rif1Δ::ura4⁺ pof8Δ::kanMX6</i>
TN12119	<i>pof8Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i>	
1c	TN2411	<i>trt1⁺</i> (no tag)	<i>h- leu1-32 ura4-D18 his3-D1</i>
	TN10695	<i>trt1-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6</i>
	TN10696	<i>trt1-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6</i>
	TN16187	<i>trt1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6</i>
	TN16188	<i>trt1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6</i>
	TN16189	<i>trt1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6</i>
	AM17632	<i>trt1-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 ter1Δ[25-1135]::ura4⁺-tk</i>
AM17633	<i>trt1-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 ter1Δ[25-1135]::ura4⁺-tk</i>	
1d	TN2411	<i>est1⁺</i> (no tag)	<i>h- leu1-32 ura4-D18 his3-D1</i>
	TN17157	<i>est1-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 est1⁺::G8-13myc-kanMX6</i>
	TN17158	<i>est1-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 est1⁺::G8-13myc-kanMX6</i>
	TN17171	<i>est1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 est1⁺::G8-13myc-kanMX6 pof8Δ::kanMX6</i>
	TN17172	<i>est1-myc pof8Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 est1⁺::G8-13myc-kanMX6 pof8Δ::kanMX6</i>
	TN17380	<i>est1-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 est1⁺::G8-13myc-kanMX6 ter1-Δ[25-1135]::ura4⁺-tk</i>
	TN17381	<i>est1-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 est1⁺::G8-13myc-kanMX6 ter1-Δ[25-1135]::ura4⁺-tk</i>
1e	TN2411	<i>pof8⁺</i> (no tag)	<i>h- leu1-32 ura4-D18 his3-D1</i>
	AM16931	<i>pof8-myc</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM16932	<i>pof8-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM17629	<i>pof8-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ter1-Δ[25-1135]::ura4⁺-tk pof8⁺::13myc-kanMX6</i>
	AM17630	<i>pof8-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ter1-Δ[25-1135]::ura4⁺-tk pof8⁺::13myc-kanMX6</i>
	AM17036	<i>pof8-myc ccq1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1Δ::hphMX pof8⁺::13myc-kanMX6</i>
	AM17037	<i>pof8-myc ccq1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ccq1Δ::hphMX pof8⁺::13myc-kanMX6</i>
	AM17026	<i>pof8-myc trt1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1Δ::his3⁺ pof8⁺::13myc-kanMX6</i>
	AM17027	<i>pof8-myc trt1Δ</i>	<i>h- leu1-32 ura4-D18 ade6-M210 his3-D1 trt1Δ::his3⁺ pof8⁺::13myc-kanMX6</i>
	AM17029	<i>pof8-myc est1Δ</i>	<i>h+ leu1-32 ura4-D18 ade6-M210 his3-D1 est1Δ::kanMX6 pof8⁺::13myc-kanMX6</i>
AM17030	<i>pof8-myc est1Δ</i>	<i>h+ leu1-32 ura4-D18 ade6-M210 his3-D1 est1Δ::kanMX6 pof8⁺::13myc-kanMX6</i>	
3a	TN2411	<i>pof8⁺</i> (no tag)	<i>h- leu1-32 ura4-D18 his3-D1</i>
	TN12132	<i>pof8-myc</i>	<i>h- leu1-32 ura4-D18 ade6-M210 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM16931	<i>pof8-myc</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM16932	<i>pof8-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM17036	<i>pof8-myc ccq1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1Δ::hphMX pof8⁺::13myc-kanMX6</i>
	AM17037	<i>pof8-myc ccq1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ccq1Δ::hphMX pof8⁺::13myc-kanMX6</i>
	AM17026	<i>pof8-myc trt1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1Δ::his3⁺ pof8⁺::13myc-kanMX6</i>
	AM17027	<i>pof8-myc trt1Δ</i>	<i>h- leu1-32 ura4-D18 ade6-M210 his3-D1 trt1Δ::his3⁺ pof8⁺::13myc-kanMX6</i>
	AM17029	<i>pof8-myc est1Δ</i>	<i>h+ leu1-32 ura4-D18 ade6-M210 his3-D1 est1Δ::kanMX6 pof8⁺::13myc-kanMX6</i>
	AM17030	<i>pof8-myc est1Δ</i>	<i>h+ leu1-32 ura4-D18 ade6-M210 his3-D1 est1Δ::kanMX6 pof8⁺::13myc-kanMX6</i>
3b	TN2411	<i>trt1⁺</i> (no tag)	<i>h- leu1-32 ura4-D18 his3-D1</i>
	TN7706	<i>trt1-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6</i>
	TN10695	<i>trt1-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6</i>
	TN10696	<i>trt1-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6</i>
	TN16187	<i>trt1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6</i>
	TN16188	<i>trt1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6</i>
	TN16189	<i>trt1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6</i>
	TN17597	<i>trt1-myc pof8-Δ[289-402]</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 pof8-Δ[289-402]::natMX6</i>

	TN17598	<i>trt1-myc pof8-Δ[289-402]</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1+::G8-13myc-kanMX6 pof8-Δ[289-402]::natMX6</i>
3c	TN2411 TN17157 TN17158 TN17171 TN17172	<i>est1⁺</i> (no tag) <i>est1-myc</i> <i>est1-myc</i> <i>est1-myc pof8Δ</i> <i>est1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1</i> <i>h- leu1-32 ura4-D18 his3-D1 est1⁺::G8-13myc-kanMX6</i> <i>h- leu1-32 ura4-D18 his3-D1 est1⁺::G8-13myc-kanMX6</i> <i>h- leu1-32 ura4-D18 his3-D1 est1⁺::G8-13myc-kanMX6 pof8Δ::kanMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 est1⁺::G8-13myc-kanMX6 pof8Δ::kanMX6</i>
3d	AM17926 AM17931	<i>pof8-PK</i> <i>pof8-PK trt1-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8⁺::12PK-hphMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 pof8⁺::12PK-hphMX6</i>
4a-b	TN2411 TN12118 TN12119	wt <i>pof8Δ</i> <i>pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1</i> <i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i>
4c	TN2411 AM17121 TN17147 AM17644 AM17645	<i>lsm3⁺</i> (no tag) <i>lsm3-myc</i> <i>lsm3-myc</i> <i>lsm3-myc pof8Δ</i> <i>lsm3-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1</i> <i>h- leu1-32 ura4-D18 his3-D1 lsm3⁺::13myc-kanMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 lsm3⁺::13myc-kanMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX lsm3⁺::13myc-kanMX6</i> <i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6 lsm3⁺::13myc-kanMX6</i>
4d	AM17755 AM17746 AM17946 AM17949 AM17950	<i>lsm3-PK</i> <i>lsm3-PK pof8-myc</i> <i>lsm3-PK pof8-Δ[289-402]-myc</i> <i>lsm3-PK pof8-myc ter1Δ</i> <i>lsm3-PK pof8-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 lsm3⁺::12PK-natMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6 lsm3⁺::12PK-natMX6</i> <i>h- leu1-32 ura4-D18 his3-D1 pof8-Δ[289-402]::13myc-kanMX6 lsm3⁺::12PK-natMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]::ura4⁺-tk pof8⁺::13myc-kanMX6 lsm3⁺::12PK-natMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]::ura4⁺-tk pof8⁺::13myc-kanMX6 lsm3⁺::12PK-natMX6</i>
4e	AM17755 AM17744 AM17943	<i>lsm3-PK</i> <i>lsm3-PK trt1-myc</i> <i>lsm3-PK trt1-myc pof8Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 lsm3⁺::12PK-natMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 lsm3⁺::12PK-natMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 pof8Δ::kanMX6 lsm3⁺::12PK-natMX6</i>
4f	TN2411 AM17121 TN17147 AM17644 AM17645 TN17409 TN17410 TN17415 TN17416 AM17641	<i>lsm3⁺</i> (no tag) <i>lsm3-myc</i> <i>lsm3-myc</i> <i>lsm3-myc pof8Δ</i> <i>lsm3-myc pof8Δ</i> <i>lsm3-myc ter1Δ</i> <i>lsm3-myc ter1Δ</i> <i>lsm3-myc trt1Δ</i> <i>lsm3-myc trt1Δ</i> <i>lsm3-myc est1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1</i> <i>h- leu1-32 ura4-D18 his3-D1 lsm3⁺::13myc-kanMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 lsm3⁺::13myc-kanMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6 lsm3⁺::13myc-kanMX6</i> <i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6 lsm3⁺::13myc-kanMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]::ura4⁺-tk lsm3⁺::13myc-kanMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]::ura4⁺-tk lsm3⁺::13myc-kanMX6</i> <i>h- leu1-32 ura4-D18 his3-D1 trt1Δ::his3⁺ lsm3⁺::13myc-kanMX6</i> <i>h- leu1-32 ura4-D18 his3-D1 trt1Δ::his3⁺ lsm3⁺::13myc-kanMX6</i> <i>h+ leu1-32 ura4-D18 his3-D1 est1Δ::hphMX6 lsm3⁺::13myc-kanMX6</i>
5a	TN17837 TN17836 TN17854 TN17856 TN17858 TN17859	wt / No pld +B1 wt / No pld -B1 <i>pof8Δ</i> / Empty pld +B1 <i>pof8Δ</i> / Empty pld -B1 <i>pof8Δ</i> / TER1 OE pld +B1 <i>pof8Δ</i> / TER1 OE pld -B1	<i>h- leu1-32 his3-D1</i> <i>h- leu1-32 his3-D1</i> <i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX //pREP42</i> <i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX //pREP42</i> <i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX //pREP42-TER1</i> <i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX //pREP42-TER1</i>
5b	TN17836 AM17109 TN17848 TN17856 TN17860	wt / No pld -B1 <i>ter1Δ</i> / No pld -B1 <i>ter1Δ</i> / TER1 OE pld -B1 <i>pof8Δ</i> / Empty pld -B1 <i>pof8Δ</i> / TER1 OE pld -B1	<i>h- leu1-32 his3-D1</i> <i>h- leu1-32 ura4-D18 his3-D1 ter1Δ25-1135:ura4+::tk</i> <i>h- leu1-32 ura4-D18 his3-D1 ter1Δ25-1135:ura4+::tk //pREP41-TER1</i> <i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX //pREP42</i> <i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX //pREP42</i>
5c	TN17836 TN17892 TN17916 TN17908	wt (no tag) / No pld -B1 <i>trt1-myc</i> / Empty pld -B1 <i>trt1-myc pof8Δ</i> / Empty pld -B1 <i>trt1-myc pof8Δ</i> / TER1 OE pld -B1	<i>h- leu1-32 his3-D1</i> <i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 //pREP2</i> <i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP2</i> <i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP42-TER1</i>
5d	TN17837 TN17890 TN17891 TN17892 TN17893	wt (no tag) / No pld +B1 <i>trt1-myc</i> / Empty pld +B1 <i>trt1-myc</i> / Empty pld +B1 <i>trt1-myc</i> / Empty pld -B1 <i>trt1-myc</i> / Empty pld -B1	<i>h- leu1-32 his3-D1</i> <i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP2</i> <i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP2</i> <i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP2</i> <i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP2</i>

TN17914	<i>trt1-myc pof8Δ</i> / Empty plid +B1	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP2</i>	
TN17915	<i>trt1-myc pof8Δ</i> / Empty plid +B1	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP2</i>	
TN17906	<i>trt1-myc pof8Δ</i> / TER1 OE plid +B1	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP42-TER1</i>	
TN17910	<i>trt1-myc pof8Δ</i> / TER1 OE plid +B1	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP42-TER1</i>	
TN17908	<i>trt1-myc pof8Δ</i> / TER1 OE plid -B1	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP42-TER1</i>	
TN17912	<i>trt1-myc pof8Δ</i> / TER1 OE plid -B1	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6 //pREP42-TER1</i>	
6a	TN17580	<i>pof8⁺</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8⁺::natMX6</i>
	TN12119	<i>pof8Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i>
	TN17582	<i>pof8-Y330A</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Y330A::natMX6</i>
	TN17584	<i>pof8-R343A</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-R343A::natMX6</i>
	TN17587	<i>pof8-Δ[390-402]</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Δ[390-402]::natMX6</i>
	TN17586	<i>pof8-Δ[289-402]</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Δ[289-402]::natMX6</i>
6b	TN2411	<i>pof8+</i> (no tag)	<i>h- leu1-32 ura4-D18 his3-D1</i>
	TN12132	<i>pof8-myc</i>	<i>h- leu1-32 ura4-D18 ade6-M210 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM16931	<i>pof8-myc</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM16932	<i>pof8-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM17098	<i>pof8-Y330A-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Y330A::13myc-kanMX6</i>
	AM17616	<i>pof8-R343A-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-R343A::13myc-kanMX6</i>
	AM17123	<i>pof8-Δ[390-402]-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Δ[390-402]::13myc-kanMX6</i>
	AM17618	<i>pof8-Δ[289-402]-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Δ[289-402]::13myc-kanMX6</i>
6c	AM16931	<i>pof8-myc</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM17098	<i>pof8-Y330A-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Y330A::13myc-kanMX6</i>
	AM17616	<i>pof8-R343A-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-R343A::13myc-kanMX6</i>
	AM17123	<i>pof8-Δ[390-402]-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Δ[390-402]::13myc-kanMX6</i>
	AM17618	<i>pof8-Δ[289-402]-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Δ[289-402]::13myc-kanMX6</i>
	TN12118	<i>pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i>
	TN12119	<i>pof8Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i>
6d	TN2411	<i>pof8⁺</i> (no tag)	<i>h- leu1-32 ura4-D18 his3-D1</i>
	AM16931	<i>pof8-myc</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM16932	<i>pof8-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM17098	<i>pof8-Y330A-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Y330A::13myc-kanMX6</i>
	AM17616	<i>pof8-R343A-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-R343A::13myc-kanMX6</i>
	AM17123	<i>pof8-Δ[390-402]-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Δ[390-402]::13myc-kanMX6</i>
	AM17618	<i>pof8-Δ[289-402]-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Δ[289-402]::13myc-kanMX6</i>
	AM17629	<i>pof8-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]::ura4⁺-tk pof8⁺::13myc-kanMX6</i>
	AM17630	<i>pof8-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]::ura4⁺-tk pof8⁺::13myc-kanMX6</i>
6e	TN2411	<i>trt1⁺</i> (no tag)	<i>h- leu1-32 ura4-D18 his3-D1</i>
	TN10695	<i>trt1-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6</i>
	TN10696	<i>trt1-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6</i>
	TN16187	<i>trt1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6</i>
	TN16188	<i>trt1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6</i>
	TN16189	<i>trt1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6 pof8Δ::kanMX6</i>
	TN17589	<i>trt1-myc pof8-Y330A</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 pof8-Y330A::natMX6</i>
	TN17590	<i>trt1-myc pof8-Y330A</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 pof8-Y330A::natMX6</i>
	TN17593	<i>trt1-myc pof8-R343A</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 pof8-R343A::natMX6</i>
	TN17594	<i>trt1-myc pof8-R343A</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 pof8-R343A::natMX6</i>
	TN17601	<i>trt1-myc pof8-Δ[390-402]</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 pof8-Δ[390-402]::natMX6</i>
	TN17602	<i>trt1-myc pof8-Δ[390-402]</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 pof8-Δ[390-402]::natMX6</i>
	TN17597	<i>trt1-myc pof8-Δ[289-402]</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 pof8-Δ[289-402]::natMX6</i>
	TN17598	<i>trt1-myc pof8-Δ[289-402]</i>	<i>h+ leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-kanMX6 pof8-Δ[289-402]::natMX6</i>
7a	TN2411	<i>ccq1⁺</i> (no tag)	<i>h- leu1-32 ura4-D18 his3-D1</i>
	OR12046	<i>ccq1-myc</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6</i>
	OR12047	<i>ccq1-myc</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6</i>
	AM16956	<i>ccq1-myc pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6 pof8Δ::kanMX6</i>
	AM16957	<i>ccq1-myc pof8Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6 pof8Δ::kanMX6</i>
	AM17683	<i>ccq1-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-kanMX6 ter1Δ[25-1135]::ura4⁺-tk⁺</i>
	AM17685	<i>ccq1-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-kanMX6 ter1Δ[25-1135]::ura4⁺-tk⁺</i>
	TN17767	<i>ccq1-myc pof8-Y330A</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6 pof8-Y330A::natMX6</i>
	TN17768	<i>ccq1-myc pof8-Y330A</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6 pof8-Y330A::natMX6</i>
	TN17771	<i>ccq1-myc pof8-R343A</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6 pof8-R343A::natMX6</i>

	TN17772	<i>ccq1-myc pof8-R343A</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6 pof8-R343A::natMX6</i>
	TN17775	<i>ccq1-myc pof8-Δ390-402]</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6 pof8-Δ390-402)::natMX6</i>
	TN17776	<i>ccq1-myc pof8-Δ390-402]</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6 pof8-Δ390-402)::natMX6</i>
	TN17779	<i>ccq1-myc pof8-Δ289-402]</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6 pof8-Δ289-402)::natMX6</i>
	TN17780	<i>ccq1-myc pof8-Δ289-402]</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1⁺::13myc-hphMX6 pof8-Δ289-402)::natMX6</i>
7b	TN2411	<i>ura4⁻</i>	<i>h- leu1-32 ura4-D18 his3-D1</i>
	LK7299	<i>ura4⁺</i>	<i>h- leu1-32 his3-D1</i>
	CF53	<i>telo::ura4⁺</i>	<i>h⁹⁰ leu1-32 ura4-D18 ade6-M210 his3-D1 otr1R(sphI):ade6⁺ (cen1) his3⁺:tel(1L) ura4⁺:tel(2L)</i>
	CF17571	<i>pof8Δ telo::ura4⁺</i>	<i>h⁹⁰ leu1-32 ura4-D18 ade6-M210 his3-D1 pof8Δ::kanMX6 otr1R(sphI):ade6⁺ (cen1) his3⁺:tel(1L) ura4⁺:tel(2L)</i>
	TN17822	<i>pof8-Δ289-402] telo::ura4⁺</i>	<i>h⁹⁰ leu1-32 ura4-D18 ade6-M210 his3-D1 pof8-Δ289-402)::13myc-kanMX6 otr1R(sphI):ade6⁺ (cen1) his3⁺:tel(1L) ura4⁺:tel(2L)</i>
	TN17823	<i>pof8-R343A telo::ura4⁺</i>	<i>h⁹⁰ leu1-32 ura4-D18 ade6-M210 his3-D1 pof8-R343A::13myc-kanMX6 otr1R(sphI):ade6⁺ (cen1) his3⁺:tel(1L) ura4⁺:tel(2L)</i>
	TN17816	<i>ccq1Δ telo::ura4⁺</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1Δ::hphMX his3⁺:tel(1L) ura4⁺:tel(2L)</i>
7d	TN2409	wt	<i>h+ leu1-32 ura4-D18 his3-D1</i>
	TN2411	wt	<i>h- leu1-32 ura4-D18 his3-D1</i>
	AM17109	<i>ter1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]:ura4⁺-tk</i>
	AM17307	<i>ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]:ura4⁺-tk</i>
	TN5345	<i>rap1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 rap1Δ::ura4⁺</i>
	TN5346	<i>rap1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 rap1Δ::ura4⁺</i>
	LK8667	<i>ccq1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1Δ::hphMX</i>
	LK8668	<i>ccq1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1Δ::hphMX</i>
	TN12118	<i>pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i>
	TN12119	<i>pof8Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i>
	AM16931	<i>pof8-myc</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM17098	<i>pof8-Y330A-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Y330A::13myc-kanMX6</i>
	AM17616	<i>pof8-R343A-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-R343A::13myc-kanMX6</i>
	AM17123	<i>pof8-Δ[390-402]-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Δ[390-402]:13myc-kanMX6</i>
	AM17618	<i>pof8-Δ[289-402]-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8-Δ[289-402]:13myc-kanMX6</i>
S1	TN2411	<i>trt1⁺ (no tag)</i>	<i>h- leu1-32 ura4-D18 his3-D1</i>
	TN10695	<i>trt1-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 trt1⁺::G8-13myc-natMX6</i>
	AM16931	<i>pof8-myc</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8⁺::13myc-kanMX6</i>
	AM17630	<i>pof8-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]:ura4⁺-tk pof8⁺::13myc-kanMX6</i>
	AM17121	<i>lsm3-myc</i>	<i>h- leu1-32 ura4-D18 his3-D1 lsm3⁺::13myc-kanMX6</i>
	TN17409	<i>lsm3-myc ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]:ura4⁺-tk lsm3⁺::13myc-kanMX6</i>
S4	TN2411	<i>trt1⁺ (no tag)</i>	<i>h- leu1-32 ura4-D18 his3-D1</i>
	LK8667	<i>ccq1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1Δ::hphMX</i>
	LK8668	<i>ccq1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 ccq1Δ::hphMX</i>
	TN10817	<i>trt1Δ</i>	<i>h- leu1-32 ura4-D18 ade6-M210 his3-D1 trt1Δ::his3⁺</i>
	TN10818	<i>trt1Δ</i>	<i>h- leu1-32 ura4-D18 ade6-M210 his3-D1 trt1Δ::his3⁺</i>
	TN10728	<i>est1Δ</i>	<i>h+ leu1-32 ura4-D18 ade6-M210 his3-D1 est1Δ::hphMX</i>
	TN10729	<i>est1Δ</i>	<i>h+ leu1-32 ura4-D18 ade6-M210 his3-D1 est1Δ::hphMX</i>
S5	TN2409	wt	<i>h+ leu1-32 ura4-D18 his3-D1</i>
	TN2411	wt	<i>h- leu1-32 ura4-D18 his3-D1</i>
	AM17109	<i>ter1Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]:ura4⁺-tk</i>
	AM17307	<i>ter1Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 ter1Δ[25-1135]:ura4⁺-tk</i>
	TN12118	<i>pof8Δ</i>	<i>h- leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i>
	TN12119	<i>pof8Δ</i>	<i>h+ leu1-32 ura4-D18 his3-D1 pof8Δ::kanMX6</i>

*Rad52 was previously known as Rad22 in *S. pombe*, but it has been officially renamed to be more consistent with the name used in other organisms for orthologs of this protein.

Supplementary Table 2: Sources of various mutated and tagged alleles for fission yeast strains used in this study.**Previously published strains**

Mutated & epitope-tagged alleles	Source
<i>taz1Δ::ura4⁺</i>	[9]
<i>rap1Δ::ura4⁺</i>	[10]
<i>poz1Δ::natMX6</i>	[11]
<i>rif1Δ::ura4⁺</i>	[10]
<i>trt1⁺::G8-13myc-kanMX6</i>	[12]
<i>est1⁺::G8-13myc-kanMX6</i>	[12]
<i>ccq1Δ::hphMX6</i>	[13]
<i>trt1Δ::his3⁺</i>	[14]
<i>est1Δ::kanMX6</i>	[15]
<i>otr1R(sphI)::ade6⁺ (cen1) his3⁺:tel(1L) ura4⁺:tel(2L)</i>	[16]

New strains generated for this study

Mutated & epitope-tagged alleles	Comment
<i>trt1⁺::G8-13myc-natMX6</i>	Marker swap of <i>trt1⁺::G8-13myc:kanMX6</i> [12] by PCR-based method.
<i>ccq1⁺::13myc-hphMX6</i>	Marker swap of <i>ccq1⁺::13myc-kanMX6</i> [13] by PCR-based method.
<i>ter1Δ[25-1135]::ura4⁺-tk</i>	Generated by two-step PCR-based method with plasmid 81 (Supplementary Table 3) and primers 1637, 1638, 1639, 1640 (Supplementary Table 4).
<i>lsm3⁺::12PK-kanMX6</i>	Generated by two-step PCR-based method [17] with plasmid 973 (Supplementary Table 3) and primers 1686, 1689, 1687, 1690 (Supplementary Table 4).
<i>lsm3⁺::13myc-kanMX6</i>	Generated by two-step PCR-based method [17] with plasmid 7 (Supplementary Table 3) and primers 1686, 1689, 1687, 1690 (Supplementary Table 4).
<i>pof8Δ::kanMX6</i>	Generated by two-step PCR-based method [17] with plasmid 7 (Supplementary Table 3) and primers 1383, 1390, 1386, and 1391 (Supplementary Table 4).
<i>pof8⁺::12PK-kanMX6</i>	Generated by two-step PCR-based method [17] with plasmid 973 (Supplementary Table 3) and primers 1385, 1382, 1386, and 1391 (Supplementary Table 4).
<i>pof8⁺::13myc-kanMX6</i>	Generated by two-step PCR-based method [17] with plasmid 7 (Supplementary Table 3) and primers 1385, 1382, 1386, and 1391 (Supplementary Table 4).
<i>pof8-Y330A::13myc-kanMX6</i>	Generated by two-step PCR-based method [18] with <i>pof8-myc</i> strain and primers 1699, 1655, 1656, 1386 (Supplementary Table 4).
<i>pof8-R343A::13myc-kanMX6</i>	Generated by two-step PCR-based method [18] with <i>pof8-myc</i> strain and primers 1699, 1658, 1386 (Supplementary Table 4).
<i>pof8-[Δ390-402]::13myc-kanMX6</i>	Generated by two-step PCR-based method [18] with <i>pof8-myc</i> strain and primers 1699, 1648, 1386 (Supplementary Table 4).
<i>pof8-[Δ289-402]::13myc-kanMX6</i>	Generated by two-step PCR-based method [18] with <i>pof8-myc</i> strain and primers 1699, 1647, 1386 (Supplementary Table 4).
<i>pof8⁺::natMX6 (wt)</i>	Removed epitope tag of <i>pof8-myc</i> strain via PCR-based method and primers 1699, 1724, 1285, 1386 (Supplementary Table 4).
<i>pof8-Y330A::natMX6</i>	Removed epitope tag of <i>pof8-Y330A-myc</i> strain via PCR-based method and primers 1699, 1724, 1285, 1386 (Supplementary Table 4).
<i>pof8-R343A::natMX6</i>	Removed epitope tag of <i>pof8-R343A-myc</i> strain via PCR-based method and primers 1699, 1724, 1285, 1386 (Supplementary Table 4).
<i>pof8-[Δ390-402]::natMX6</i>	Removed epitope tag of <i>pof8-[Δ390-402]-myc</i> strain via PCR-based method and primers 1699, 1726, 1285, 1386 (Supplementary Table 4).
<i>pof8-[Δ289-402]::natMX6</i>	Removed epitope tag of <i>pof8-[Δ289-402]-myc</i> strain via PCR-based method and primers 1699, 1725, 1285, 1386 (Supplementary Table 4).

Supplementary Table 3: Plasmids used in this study.**Plasmids used in fission yeast strain construction.**

Stock # & plasmid name	Genes	Description
7 pFA6a-13myc-kanMX6 [17]	<i>kanMX6; ampR</i>	Used as a PCR template to generate 13xmyc-tagged strains and pof8Δ::kanMX6 strain.
973 pFA6a-12PK-kanMX6 [19]	<i>kanMX6; ampR</i>	Used as a PCR template to generate 12xPK-tagged strains.
81 pNR228 [20]	<i>ura4⁺; adh1::tk</i>	Used as a PCR template to generate <i>ter1Δ[25-1135]::ura4⁺-tk</i> strain with primers 1637, 1638, 1639, 1640 (Supplementary Table 4).
29 pREP2 [21]	<i>ura4⁺; ampR</i>	Used as empty plasmid control.
30 pREP42 [21]	<i>ura4⁺; ampR</i>	Used as empty plasmid control and for cloning <i>ter1⁺</i> .
1245 pREP42-TER1	<i>ura4⁺; ampR; ter1⁺</i>	Primers 1826 and 1827 (Supplementary Table 4) were used to amplify <i>ter1⁺</i> from <i>S. pombe</i> genome and inserted into BamHI digested plasmid 30.
27 pREP41 [21]	<i>LEU2; ampR</i>	Used to clone <i>ter1⁺</i> gene.
1241 pREP41-TER1	<i>LEU2; ampR; ter1⁺</i>	Primers 1826 and 1827 (Supplementary Table 4) were used to amplify <i>ter1⁺</i> from <i>S. pombe</i> genome and inserted into BamHI digested plasmid 27.

Additional fission yeast related plasmids.

Stock # & plasmid name	Genes	Description
254 pTELO [14]	Fission yeast telomere fragment; <i>ampR</i>	Carries a telomeric repeat fragment (ApaI-SacI) used in generating a telomere probe for Southern blot analysis.

Supplementary Table 4: DNA primers used in this study.

#	Primer Name	Primer Sequence (5' to 3')	Description
1383	Pof8-T2	GGAAAGACAAGGTCGTGGGTGCT	Anneals to <i>pof8</i> 5'UTR. Used to generate <i>pof8Δ::kanMX6</i> (sense).
1390	Pof8-KO(x)-B7	GGCAAGCTAAACAGATCTGGCGCTTTACTTCGCTCC TTAAAGTACGGTTTTTC	Used to generate <i>pof8ΔkanMX6</i> strain. Red letters anneal to <i>kanMX6</i> on plasmid 7 (antisense) (Supplementary Table 3).
1386	Pof8-B5	GTGGTTCATGGTTTATTGGAATTTTTGCTG	Anneals to <i>pof8</i> 3' UTR. Used to generate <i>pof8Δ::kanMX6</i> (antisense).
1391	Pof8-KO/tag(y)-T8	GTCGATTTCGATACTAACGCCGCCGTTTTCTTTCTCT GGTAATACTAATTTG	Used to generate <i>pof8Δ::kanMX6</i> and 13Myc tagged <i>pof8</i> strains. Red letters anneal to pFA6a-13Myc- <i>kanMX6</i> plasmid 7 (sense) (Supplementary Table 3).
1385	Pof8-T4	GCCCATGTATATAGACTATAGGAAGGACG	Anneals to <i>pof8</i> . Used to generate 13Myc tagged <i>pof8</i> strains (sense).
1382	Pof8-tag(x)-B1	GGGGATCCGTCGACCTGCAGCGTACGA CATACGCCAATAATTCTTTTCTTCTCT	Used to generate 13Myc tagged <i>pof8</i> strains. Red letters anneal to pFA6a-13Myc- <i>kanMX6</i> plasmid 7 (antisense) (Supplementary Table 3).
1637	TER1ΔUTK-1F	CCACTCGGGACTTGCTTGTACTTTAACGG	Used to generate <i>ter1Δ[25-1135]::ura4⁺-tk⁺</i> strain. Anneals upstream of <i>ter1</i> transcript (sense).
1638	TER1ΔUTK-1R	CGGGAGATGGGGGAGGCTAACTGACCTTCTAAGCA TGGGCGTTGCG	Used to generate <i>ter1Δ[25-1135]::ura4⁺-tk⁺</i> strain. Red letters anneal to plasmid 81 (antisense) (Supplementary Table 3).
1639	TER1ΔUTK-2F	GGCATATCAGCAAAGACTTTCTCAGCATTAA GAGCGCGTTTTAGGTTTTTTTTCAC	Used to generate <i>ter1Δ[25-1135]::ura4⁺-tk⁺</i> strain. Red letters anneal to plasmid 81 (sense) (Supplementary Table 3).
1640	TER1ΔUTK-2R	GATTCATCACTTTCTCAAAATTTGAAACCGG	Used to generate <i>ter1Δ[25-1135]::ura4⁺-tk⁺</i> strain (antisense).
1602	Leu1Ter1-F	CCTGCAGCCCGGGGATCCGTAACGGAATATCCG CGATGAAA	Used to generate <i>leu1-32::[ter1+,leu1+]</i> strain. Red letters anneal to plasmid 37 (sense) (Supplementary Table 3).
1636	Leu1Ter1-R	GGCCGCTCTAGAACTAGTGGATCCACTTCATCTCTT CTAGTACGC	Used to generate <i>leu1-32::[ter1+,leu1+]</i> strain. Red letters anneal to plasmid 37 (antisense) (Supplementary Table 3).
1686	lsm3-T1	GATGATGAAGAGACCGATAAGGAC	Anneals to <i>lsm3⁺</i> (sense).
1689	lsm3-B1	GGATCCGTCGACCTGCAGCGTACGA GGAGCAATCAAAATAACC	Used to generate <i>lsm3⁺::13Myc-kanMX6</i> strain. Red letters anneal to pFA6a-13Myc- <i>kanMX6</i> plasmid 7 (antisense) (Supplementary Table 3).
1687	lsm3-T2	CTGTGCGATTTCGATACTAACGCCGCCAGGAACGAATA AAATTACTATACAAAGC	Used to generate <i>lsm3⁺::13Myc-kanMX6</i> strain. Red letters anneal to pFA6a-13Myc- <i>kanMX6</i> plasmid 7 (sense) (Supplementary Table 3).
1690	lsm3-B2	CGTGAATGTTGGTTAACTTCG	Anneals to <i>lsm3+</i> 3' UTR (antisense)
1655	pof8 Y330A-R	CGTCCTCCTATAGTCTATAGCCATGGGCTCACATG CAATATTC	Used to generate Y330A mutation (red letters) in <i>pof8</i> (antisense).
1656	pof8 Y330A-F	GAATATTGCATGTGAGCCCATGGCTATAGACTATAG GAAGGACG	Used to generate Y330A mutation (red letters) in <i>pof8</i> (sense).
1657	pof8 R343A-R	GCATGAAGCGGTGTTTTCCAAGCTATTATCGCCTCT GTTTCGTCC	Used to generate R343A mutation (red letters) in <i>pof8</i> (antisense).
1648	pof8Δ390-402-R	CCGGGGATCCGTCGACCTGCAGCGTACGA TAGCTCAGCAATCAGGAATGGACGGC	Used to generate <i>pof8-Δ[390-402]-myc</i> strain. Red letters anneal to pFA6a- <i>kanMX6</i> plasmid.
1647	pof8Δ289-402-R	CGGGGATCCGTCGACCTGCAGCGTACGA TTATCTTCATCTTTATCAGTTTG	Used to generate <i>pof8-Δ[289-402]-myc</i> strain. Red letters anneal to pFA6a-13Myc- <i>kanMX6</i> plasmid 7 (Supplementary Table 3).
1285	Tpz1-T54	CGCGCCACTTCTAAATAAGCGAATTTCTT	Used to remove 13myc tag from <i>pof8-myc</i> strains.
1699	pof8-TC	CCTTTCCTGAAAATCGTTATCCC	Anneals to <i>pof8</i> (sense).
1724	pof8ΔMyc	GAAATTCGCTTATTTAGAAGTGGCGCGTTACTTTTTT AACATACGCCAATAATCTTTTC	Used to remove 13myc tag from full length <i>pof8-myc</i> strains.
1725	pof8Δ289Myc	GAAATTCGCTTATTTAGAAGTGGCGCGTTAATCCAAA TTATCTTCATCTTTATCAGTTTG	Used to remove 13myc tag from <i>pof8-Δ[289-402]-myc</i> strain.
1726	pof8Δ390Myc	GAAATTCGCTTATTTAGAAGTGGCGCGTTAGGTAATT AGCTCAGCAATCAGGAATGGACG	Used to remove 13myc tag from <i>pof8-Δ[390-402]-myc</i> strain.

1826	pREPter1F	CATATGTCGACTCTAGAGGATCCTTATACTCAACG CAACGCC	Used to clone TER1 gene in pREP41 or pREP42 (Supplementary Table 3). Red sequence contains homology to plasmids 27, 29, or 30.
1827	pREPter1R	CATTCCTTTTACCCGGGATCCACTTCATCTCTTCT AGTACGC	Used to clone TER1 gene in pREP41 or pREP42 (Supplementary Table 3). Red sequence contains homology to plasmids 27, 29, or 30.
637	jk380 (TEL-#1)	TATTTCTTTATTCAACTTACCGCACTTC	Used in qPCR in telomere ChIP experiments [22].
638	jk381 (TEL-#2)	CAGTAGTGCAGTGTATTATGATAATTAATG	Used in qPCR in telomere ChIP experiments [22].
935	ars2004-66-F	CGGATCCGTAATCCCAACAA	Used in qPCR in <i>ars2004</i> ChIP experiments [23].
936	ars2004-66-R	TTTGCTTACATTTTCGGAACCTTA	Used in qPCR in <i>ars2004</i> ChIP experiments [23].
941	non-ARS-70-F	TACGCGACGAACCTTGCATAT	Used in qPCR in <i>non-ARS</i> (~30 kb from <i>ars2004</i>) ChIP experiments [23].
942	non-ARS-70-R	TTATCAGACCATGGAGCCCATT	Used in qPCR in <i>non-ARS</i> (~30 kb from <i>ars2004</i>) ChIP experiments [23].
633	Ade6-3	TGATGGAGGACGTGAGCACATTGA	Used in qPCR in <i>ade6⁺</i> ChIP experiments.
634	Ade6-4	TTGAATGCATCGCAGAGTTGCAGG	Used in qPCR in <i>ade6⁺</i> ChIP experiments.
1779	his1.1	CGAAGACGTGCTTCAGCGA	Used in <i>his1⁺</i> ChIP experiments, and RT and qPCR for <i>his1⁺</i> expression studies [24].
1780	his1.2	TGTCCACCTCGGAATCACTG	Used in <i>his1⁺</i> ChIP experiments, and RT and qPCR for <i>his1⁺</i> expression studies [24].
1016	3'TER1-B1	GATCCATGGATCTCACGTAATG	Used in RT for TER1.
1015	5'TER1-T1	CAGTGACGTGAGTCTTCTGCCTT	Used in qPCR for TER1.
1017	275-Ter1	CAAAAATTCGTTGTGATCTGACAAGC	Used in qPCR for TER1.
1678	BLoli1275	CGGAAACGGAATTCAGCATGT	Used in RT and qPCR for un-spliced TER1 [25].
1679	Bloli1020	CAAA CAATAATGAACGTCCTG	Used in qPCR for un-spliced TER1 [25].
1779	his1.1	CGAAGACGTGCTTCAGCGA	Used in RT and qPCR for <i>his1⁺</i> [24].
1780	his1.2	TGTCCACCTCGGAATCACTG	Used in qPCR for <i>his1⁺</i> [24].
1772	odT	TTTTTTTTTTTTTTTTTTTT	Used in RT for polyA-TERRA/ARRET [8].
1773	oF1	GAAGTTCAGTCATAATTAATTGGGTAACGGAG	Used in qPCR for polyA-TERRA/ARRET [8].
1775	oR1	GGGCCCAATAGTGGGGCATTGTATTTGTG	Used in qPCR for polyA-TERRA/ARRET [8].
1774	oF2	GGTTGAATTGAGCGTGGTAGG	Used in qPCR for polyA-ARRET [8].
1776	oR2	ACTTACTGCACCCTAACGCA	Used in qPCR for polyA-ARRET [8].

Supplementary Table 5: Sources of sequences used in bioinformatic analysis.

Protein Name	GenBank Acc. No.	Source
Pof8	BAB60688	<i>Schizosaccharomyces pombe</i>
Pof8	EPX72631	<i>Schizosaccharomyces octosporus</i> yFS286
Pof8	EPY52790	<i>Schizosaccharomyces cryophilus</i> OY26
Pof8	EEB09384.1	<i>Schizosaccharomyces japonicus</i> yFS275
LARP7	NP_524795	<i>Drosophila melanogaster</i>
LARP7	NP_001039168	<i>Xenopus tropicalis</i>
LARP7	AFE61891	<i>Mus musculus</i>
LARP7	AAH66945	<i>Homo sapiens</i>
p43*	AF307939	<i>Euplotes aediculatus</i>
p65	AY280524	<i>Tetrahymena thermophila</i>
hypothetical protein G7K_2053-t1	GAO47857	<i>Saitoella complicata</i> NRRL Y-17804
similar to Pof8	CCX33746	<i>Pyronema omphalodes</i> CBS 100304
hypothetical protein	XP_002836370	<i>Tuber melanosporum</i> Mel28 (black truffle mushroom)
hypothetical protein BOTBODRAFT_187311	KDQ15495	<i>Botryobasidium botryosum</i> FD-172 SS1
Pof8	KNZ72704	<i>Termitomyces</i> sp. J132 (mushroom)

***NOTE:** Final protein sequence surrounding open reading frameshift site was adjusted as originally proposed by Aigner *et al.* [26].

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