

Yeast strain list:
S288C background: ura3-52 his3Δ200 leu2 lys2-801 ade2-101 trp1Δ63

YYB number	Genotype	Mating type	Plasmid	Source
962	wt deletion collection	A		Deletion collection
3416	hoD::SCW11pr-Cre-EBD78-NatMX loxP-UBC9-loxP-LEU2 loxP-CDC20-Intron-loxP-HPHMX	α		Dan Gottschling lab
3476	trp1::TetO:TRP1, lys4::LacO:LEU2, his3::LacR-GFP:HIS3 ,TetR-RFP	A		Gabriel Neurohr
14507	LEU2::TetR-3mCherry POA1::TetO112:URA3	A		Karsten Weis lab(KWY3759)
16094	Spc42-mCherry:NAT leu2::LEU2 TetR-GFP	α	sc-URA3-CEN-rec-tetO-LEU	Anna Marzelliusadottir
16128	lys4::LacO:LEU2 his3::LacR-GFP:HIS3 Spc42-mCherry:NAT	A		Anna Marzelliusadottir
16157	trp1::pRS405_Trp1_SplicingReporter	A		Anne Meinema
16161	fob1::KAN, trp1::pRS405_Trp1_SplicingReporter	A		Anne Meinema
16301	sir2::kanMX, trp1::pRS405_Trp1_SplicingReporter	A		Anne Meinema
16648	mad1::kanMX	A		Deletion collection
16934	lys4::LacO:LEU2 his3::LacR-GFP:HIS3 Spc42-mCherry:NAT	A		Mihailo Mirkovic
16935	lys4::LacO:LEU2 his3::LacR-GFP:HIS3 Spc42-mCherry:NAT <i>lpl1-321</i>	α		Mihailo Mirkovic
16936	lys4::LacO:LEU2 his3::LacR-GFP:HIS3 Spc42-mCherry:NAT <i>GLC7-Δi</i>	A		Mihailo Mirkovic
16937	lys4::LacO:LEU2 his3::LacR-GFP:HIS3 Spc42-mCherry:NAT <i>lpl1-321 GLC7-Δi</i>	α		Mihailo Mirkovic
17198	trp1::TetO:TRP1, lys4::LacO:LEU2, his3::LacR-GFP:HIS3 ,TetR-mRFP fob1::hphNT1	A		Mihailo Mirkovic
17213	mad2::KanMX	A		Deletion collection
17590	wt elela intronless collection	A	PYB 2665 Ubi-GFP	Mihailo Mirkovic
17591	<i>GLC7Δi</i>	A	PYB 2665 Ubi-GFP	Mihailo Mirkovic
17592	<i>lpl1-321</i>	α	PYB 2665 Ubi-GFP	Mihailo Mirkovic
17593	<i>lpl1-321 GLC7Δi</i>	α	PYB 2665 Ubi-GFP	Mihailo Mirkovic
17677	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2,Spc42-mCherry-hphNT1	α		Mihailo Mirkovic
17678	POA1::TetO112:URA3,leu2::TetR-GFP:LEU2,Spc42-mCherry-hphNT1 <i>GLC7Δi</i>	α		Mihailo Mirkovic
17679	POA1::TetO112:URA3,leu2::TetR-GFP:LEU2,Spc42-mCherry-hphNT1 <i>GLC7/MCM21/NBL1 ΔiΔiΔi</i>	A		Mihailo Mirkovic
17689	<i>lpl1-321</i>	A		Mihailo Mirkovic
17690	<i>lpl1-321 GLC7Δi</i>	α		Mihailo Mirkovic
17691	<i>lpl1-321 MCM21/NBL1ΔiΔi</i>	A		Mihailo Mirkovic
17692	<i>lpl1-321 GLC7/MCM21/NBL1-ΔiΔiΔi</i>	A		Mihailo Mirkovic
17693	wt <i>lpl1</i> crosses	α		Mihailo Mirkovic
17694	<i>GLC7Δi</i>	A		Mihailo Mirkovic
17695	<i>GLC7/MCM21/NBL1 ΔiΔiΔi</i>	A		Mihailo Mirkovic
17834	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2,Spc42-mCherry-hphNT1 fob1::Nat	α		Mihailo Mirkovic
17838	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2,Spc42-mCherry-hphNT1 sir2::Nat	α		Mihailo Mirkovic
17924	<i>lpl1-321 Glc7Δi</i> POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42:mCherry:hphNT1	α		Mihailo Mirkovic
18019	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT	α		Mihailo Mirkovic
18028	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42:mCherry:hphNT1	α		Mihailo Mirkovic
18029	<i>lpl1-321</i> POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42:mCherry:hphNT	A		Mihailo Mirkovic
18069	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1	α		Jordan Mccarthy
18070	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1 <i>hrb1::kan gbp2::kan</i>	α		Jordan Mccarthy
18071	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1 <i>hrb1::kan gbp2::kan GLC7/MCM21/NBL1-ΔiΔiΔi</i>	A		Jordan Mccarthy
18100	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1 <i>TUB1/TUB3-ΔiΔi</i>	A		Mihailo Mirkovic
18100	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1 <i>GLC7/MCM21/NBL1-ΔiΔiΔi</i>	A		Mihailo Mirkovic
18213	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1 <i>snu66del::Nat</i>	α		Mihailo Mirkovic
18214	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1 <i>TUB1/TUB3-ΔiΔi</i> <i>snu66::Nat</i>	α		Mihailo Mirkovic
18493	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1 <i>sgf73::Nat</i>	α		Mihailo Mirkovic
18661	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1 <i>mlp1::nat</i>	α		Mihailo Mirkovic
18663	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1 <i>mlp1::nat , GLC7/MCM21/NBL1-ΔiΔiΔi</i>	A		Mihailo Mirkovic
18683	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42:mCherry:hphNT1 <i>NBL1Δi MCM21Δi</i>	A		Mihailo Mirkovic
19347	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1 <i>GLC7/MCM21/NBL1-ΔiΔiΔi</i> sir2::Nat	A		Mihailo Mirkovic
19348	POA1::TetO112:URA3 leu2::TetR-GFP:LEU2 Spc42-mCherry-hphNT1 trp1::TetO:TRP1	A		Mihailo Mirkovic
19453	POA1::TetO112:URA3,leu2::TetR-GFP:LEU2,Spc42-mCherry-hphNT1	α	YRp17(PYB546)	Mihailo Mirkovic
19454	POA1::TetO112:URA3,leu2::TetR-GFP:LEU2,Spc42-mCherry-hphNT1 <i>GLC7/MCM21/NBL1 ΔiΔiΔi</i>	A	YRp17(PYB546)	Mihailo Mirkovic

Primer list:

Internal reference MM	Primer name	Primer Sequence	Source
10	4RV_898hphNT1_HygroORF	CGG ATG TGA TGT GAG AAC TGT ATC	Mihailo Mirkovic
36	SPC42_Flanking_FW	CGT GTT ACA CAA AAG CGG TTT CG	Mihailo Mirkovic
37	SPC42_Flanking_RV	CGC TTT AAG AAT GCG CCA TAC TC	Mihailo Mirkovic
38	S1 Mlp1 Knopp	ACT CGC CGA AGC TAC ACA AAT AGT CAG TAA CGC CAC GTT TTA GGA TAA TGC GTA CGC TGC AGG TCG AC	Mihailo Mirkovic
39	S2 Mlp1 Knopp	TTG AAA AAG GTT TAG TTT GTA TTG ATC CCT TGT TTT TAC TAT CTC CTT TAA TCG ATG AAT TCG AGC TCG	Mihailo Mirkovic
40	Mlp1 50bp upstream FW	GCT GAC TAG GAC TTA ACT GAT ACT CG	Mihailo Mirkovic
41	Mlp1 RV ORF	CGG TTT TTT GTC TGT AGG AGA GAT AC	Mihailo Mirkovic
64	Glc7 flank_FW	GGT GAA CGA ACG AGT AAC TGG	Mihailo Mirkovic
65	Glc7 flank_RV	CCT TTT TAA ACT TTG ATT TAG GAC GTG	Mihailo Mirkovic
97	SIR2 flank FW	CAA ACC ATT TTT CCC TCA TCG CG	Mihailo Mirkovic
98	SIR2 flank RV	GGC GGT ACA TGT AAT ATT TCA CCC	Mihailo Mirkovic
99	SIR2_inORF_Fw	GAC CAT CCC ACA TAT GAA ATA CGC	Mihailo Mirkovic
100	SIR2_inORF_Rv	GGG TTT TGG GAT GTT CAT CTG ATG	Mihailo Mirkovic
101	Fob1_ORF_FW	CGA AAC CGC GTT ACA ATG ACG	Mihailo Mirkovic
102	Fob1_ORF_RV	GCC AAA GTC TCT TGT TTG ATC TCC	Mihailo Mirkovic
103	Fob1_upstream_FW	CGA TTG TGT GAG TGT GAA TTT GTG C	Mihailo Mirkovic
104	Fob1_downstream_RV	CCT TGC GGG CAA GAT CAT ATT ATC	Mihailo Mirkovic
127	HRB1_inORF_FW	CAG AAA ACG TAT GTT TCA TTG ATA AGG G-	Mihailo Mirkovic
128	HRB1_inORF_RV	CGT ACG ATA TAT CCA AAT CAC AAC CCC	Mihailo Mirkovic
129	HRB1_S1	ACA GTT TGA ATG AGC AGA TAG AAC GCC AAA TAT TAA GTT AAC AGG ATA TGC GTA CGC TGC AGG TCG AC	Mihailo Mirkovic
130	HRB1_S2	TTT TTT CAC CTA TGG TGA CTC CTC CTT TCA TTC TAT CCT ACA TAT TAT TAA TCG ATG AAT TCG AGC TCG	Mihailo Mirkovic
132	TUB1_Flank_Fw	CCC AAG ATC TGT AAA CTT ACA ACT CG	Mihailo Mirkovic
133	TUB1_Flank_Rv	CTT GAA ATA TAG AAA GGA TAA GGA GGT TGG	Mihailo Mirkovic
134	TUB3_Flank_Fw	CAT TAA TCG ACT AAG CAA GCG ACT TGA G	Mihailo Mirkovic
135	TUB3_Flank_Rv	GGT ATC GGG ATC AGA GCC ACT TTC	Mihailo Mirkovic
145	Tub1_Intron_FW_Check	CCC AAG ATC TGT AAA CTT ACA ACT GC	Mihailo Mirkovic
146	Tub1_Intron_RV_Check	GGA ATA TAA TTC CCA ACA GGC ATT AC	Mihailo Mirkovic
147	Tub3_Intron_FW_Check	GCG ACT TGA GAC AAT GAG AGA GG	Mihailo Mirkovic
148	Tub3_Intron_RV_Check	GCA TGC ATT ACC TAT TTG ACA ACC	Mihailo Mirkovic
149	Mcm21_Intron_FW_Check	CAG CAG GAC ATT GAA TCT TTA CTC AG	Mihailo Mirkovic
150	Mcm21_Intron_RV_Check	CGC TTT GAG CTT CTC ACG ACT TT	Mihailo Mirkovic
151	NBL1_Intron_FW_Check	CGC AAG AAC GGC AGA AGT TGC	Mihailo Mirkovic
152	NBL1_Intron_RV_Check	CCT CTC TGA TTA GTT CCT TTG ATT GAG	Mihailo Mirkovic
256	S1_Fob1	GAA CAA TTT AAC GAT TGT GTG AGT GTG AAT TTG TGC TGA GGA TAA CAA TGC GTA CGC TGC AGG TCG AC	Mihailo Mirkovic
257	S2_Fob1	TTT TTT CAC CTA TGG TGA CTC CTC CTT TCA TTC TAT CCT ACA TAT TAT TAA TCG ATG AAT TCG AGC TCG	Mihailo Mirkovic
354	S1_SNU66	TTG ATA TTA ATA AAA AGG CAA TCA TCA CAT CAA CCC TTA ATT AAT TTA TGC GTA CGC TGC AGG TCG AC	Mihailo Mirkovic
355	S2_SNU66	AGA TAT TGA ATA TTA AAA GCT GGG GCT AGT AGA ATT TGC TGA TTA GGT TAA TCG ATG AAT TCG AGC TCG	Mihailo Mirkovic
356	Fw_SNU66_Flank	GCG CAA CTT AAA ATT ATT CGC GGG	Mihailo Mirkovic
357	Rv_SNU66_Flank	GAA AAG TAC TTC CGA ATT CAA GGC C	Mihailo Mirkovic
311	Fw_1868_to_2640_Ubi-GFP_ADH_termina	CTT GTT TCT TTT TCT GCA CAA TAT TTC AAG CTA TAC CAA GCA TAC AAT CAA CTA TGC AGA TTT TCG TCA AGA CTT TGA CC	Mihailo Mirkovic
312	RV_1868_Ubi-GFP_to_MscI_SacII_PYB26	AGC TCT GAT AGA GTT GGT CAA GAC CAA TGC GGA GCA TAT ACG CCC GGA GCC GCG GCC GGT AGA GGT GTG GTC AAT AAG AG	Mihailo Mirkovic
389	sgf73_inORF_FW	GTA GAC CAC TTA GAA AAC CAT TGT GC	Mihailo Mirkovic
390	sgf73_inORF_RV	CGT CAT GAG GTT ATT GTT ACC GTT TT	Mihailo Mirkovic
391	MCM21_inORF_FW	CTC AGT GAA AGT ATG TGA TTT TGA GGC	Mihailo Mirkovic
392	MCM21_inORF_RV	CCA AAT CAT CCA AAG AAC CGA CG	Mihailo Mirkovic
751	S1_Sir2	CGGTAGACACATTCAAACCACTTTTTCCTCATCGGCACATTAAAGCTGGA TGcgtagcgctgcaggtcgac	Annina Denoth-Lipp
752	S2_Sir2	GATATTAATTGGGACCTTTTAAATTATTAAATTCGCTCTCTACTTAatcga tgaattcgagctcg	Annina Denoth-Lipp

RNA FISH-Stellaris probes:

Cal Fluor Red 590		Cal Fluor Red 590		Cal Fluor Red 590	
DBP2 intron probes	Probe number	YRA1 intron probes	Probe number	GLC7 intron probes	Probe number
Probe sequence 5' to 3'		Probe sequence 5' to 3'		Probe sequence 5' to 3'	
ctgtaatatcgttaggggtaac	DBP2_1	acgagacgatgcgagtaactaa	YRA1_1	gcgaagttcaacattaacatac	GLC7_1
atgtcattaaaagccattagga	DBP2_2	catatccttcccttacaagaat	YRA1_2	ctctaggcattctatctctgga	GLC7_2
tcatggttgataaaagtcatt	DBP2_3	gaattcttgatcaaaagcgtgt	YRA1_3	gtagaacacataaaacacctga	GLC7_3
aaaaaaggctctcttctgtact	DBP2_4	ggactctttctcatctctaaa	YRA1_4	aaactatcttactgccgcaacag	GLC7_4
gtctagattcgaaaaggctcaa	DBP2_5	ttgtattttctctagcgaagta	YRA1_5	cagtcaaacgggaataaactgct	GLC7_5
catcgagaatagactcacatag	DBP2_6	gglatggttgcttatgaaaac	YRA1_6	catcagatgcttggtaaattct	GLC7_6
aaaattcaatttcogatactcc	DBP2_7	ggccatgatttgaagtattgaa	YRA1_7	tatctcgacatatgagtaggct	GLC7_7
atgcattagaagtcattcgaat	DBP2_8	tagctggtaattccaaccttat	YRA1_8	gctaaacacacacattatctcg	GLC7_8
cccaatattagttttctgtagt	DBP2_9	aagaacaaacccatttctcagtg	YRA1_9	gccggatgatgatacaaaacat	GLC7_9
ttaaagtcatttttctcatcc	DBP2_10	agattgatttgagttaaccag	YRA1_10	ggatttttctgaatatgggagg	GLC7_10
tataattcccgctctctcaaaa	DBP2_11	gattgacagattagcagatagt	YRA1_11	cttcttttttagtggagcaa	GLC7_11
gaacacaaaatacacttctccga	DBP2_12	gacacaatacgccagcttaaaa	YRA1_12	agattcgttttctcataacga	GLC7_12
cttttgacatgaagtcgaaatc	DBP2_13	taggaactaactatcacggtcg	YRA1_13	ctttctctgggctcaaaaaaa	GLC7_13
gccgatgtcaaaaagcgaaatt	DBP2_14	aglattggatgatacgcttatt	YRA1_14	aaatccacatttcttggttttc	GLC7_14
aagccaattcctgtttatttg	DBP2_15	ttaattgatcctccacaactt	YRA1_15	tgctgtcaaaaacgcttcattt	GLC7_15
atgcgttctagaaaataagctga	DBP2_16	ctccctcttgaaggatatacaa	YRA1_16	ccgttgactttaagagaacaat	GLC7_16
acaacgatcaacgaagcgtatg	DBP2_17	tggtgccattcgaaactgaaag	YRA1_17	atttgtcactaaatctagctca	GLC7_17
gtacaaatgccaaagcattgaaa	DBP2_18	ttcccatagctatttttgaaa	YRA1_18		
ttccaataaaaacatctaccct	DBP2_19	tttgaacgtttcatgaagaca	YRA1_19		
gatgacggcatttcaaagtaga	DBP2_20	aatgaagcgatgcactcatatc	YRA1_20		
ggatgcaacagtatctcaatat	DBP2_21	gtttcattaggtgtctcaaatc	YRA1_21		
tcagcacttcttaataattoga	DBP2_22	cctcaaataaacatgtaccacg	YRA1_22		
ttattttgtattttccatttt	DBP2_23	aaglataccattgcgtaggaaa	YRA1_23		
ttctgaatatggtgaaatcct	DBP2_24	acaatcaaggagttgagagtat	YRA1_24		
actgaatgaaagctagcactta	DBP2_25	aagaaggagggaacaatacaca	YRA1_25		
atcaatactccagaatccttat	DBP2_26				
ggcttgaagattatcagaat	DBP2_27				
caacattgtctcaaatcccc	DBP2_28				
ccacaaatcatgttggactc	DBP2_29				
tatgaactttattttcatgccc	DBP2_30				
tactgttagtaatttggttgt	DBP2_31				