

Table S5. Strains, primers, and probes used in this study.

Table S5A. Strains used in this study.

strain name	genotype	strain No
H99	H99 MAT α	YP672
<i>pka1</i> Δ	<i>pka1::ura5</i>	YP561
<i>vad1</i> Δ	<i>vad1::ura5</i>	YP536
<i>ecm15</i> Δ	<i>ecm15::ura5</i>	YP573
<i>cac2</i> Δ	<i>cac2::nat</i>	YP584
<i>stl1</i> Δ	<i>stl1::nat</i>	YP620
<i>pka1</i> Δ + <i>VAD1</i>	<i>pka1::ura5 VAD1:hygB</i>	YP619
<i>vad1</i> Δ + <i>Ecm15:mCherry</i>	<i>vad1::ura5 ECM15:mCherry</i>	YP635
<i>ecm15</i> Δ + <i>ECM15</i>	<i>ecm15::ura5 ECM15:hybB</i>	YP612
<i>ecm15</i> Δ + <i>VAD1</i>	<i>ecm15::ura5 VAD1:hybB</i>	YP611
<i>ecm15</i> Δ + <i>CAC2</i>	<i>cac2::ura5 CAC2:hybB</i>	YP617
<i>ecm15</i> Δ + <i>STL1</i>	<i>ecm15::ura5 STL1:hygB</i>	YP610
<i>cac2</i> Δ + <i>CAC2</i>	<i>cac2::nat CAC2:hygB</i>	YP617
<i>cac2</i> Δ + <i>ECM15</i>	<i>cac2::nat ECM15:hygB</i>	YP604
<i>cac2</i> Δ + <i>STL1</i>	<i>cac2::ura5 STL1:hybB</i>	YP618
<i>stl1</i> Δ + <i>STL1</i>	<i>stl1::nat STL1:hygB</i>	YP761
H99+ <i>VAD1</i>	H99+ <i>ACT1p:VAD1</i>	YP547
H99+ <i>ECM15</i>	H99+ <i>ECM15</i>	YP762
H99+ <i>CAC2</i>	H99+ <i>CAC2</i>	YP763
H99+ <i>STL1</i>	H99+ <i>STL1</i>	YP639
<i>Ecm15:mCherry Cac2:GFP</i>	<i>ecm15::ura5 ECM15:mCherry CAC2:GFP</i>	YP750
<i>cac2</i> Δ + <i>Ecm15:mCherry</i>	<i>cac2::nat ECM15:mCherry</i>	YP602
<i>pka1</i> Δ + <i>Vad1-GFP</i>	<i>pka1::ura5 VAD1:GFP</i>	YP590
H99+ <i>VAD1:GFP</i>	H99+ <i>VAD1:GFP</i>	YP578
H99+ <i>CAC2:GFP</i>	H99+ <i>CAC2:GFP</i>	YP574
H99+ <i>ECM15:mCherry</i>	H99+ <i>ECM15:mCherry</i>	YP603
Sc <i>ecm15</i> Δ +Cn <i>ECM15</i>	Sc <i>ecm15::ura5 Cn ECM15</i>	YP744
Sc <i>ecm15</i> Δ +EV	Sc <i>ecm15::ura5 pH125</i>	YP745
Sc <i>cac2</i> Δ +Cn <i>CAC2</i>	Sc <i>cac2::ura5 Cn CAC2</i>	YP746
Sc <i>cac2</i> Δ +EV	Sc <i>cac2::ura5 pH125</i>	YP747
Sc <i>ecm15</i> Δ	Sc <i>ecm15::ura5</i>	YP738
Sc <i>cac2</i> Δ	Sc <i>cac2::ura5</i>	YP739
KN99	KN99 MATa 7286	YP564
H99+EV	H99+pORA	YP516

Table S5B. Primers used in this study.

Name	Sequence (5' to 3')	Purpose
ECM15pro-NdeI-s	GGA TACA TA TGTGTTGACTA TGGTCATGTCCG	Ecm15-mCherry
ECM15-PstI-w o ter-a	ATA TACTGCA GTGCTTTGGA TGAGGACTCTT	Ecm15-mCherry
ECM+1kb-RI-s	atccggaattcGACTA TGGTCATGTCCGTGGG	ECM15 cmplementay
ECM+1kb-RI-a	ttccggaattcTATTGATGATGAAAGGCAATC	ECM15 cmplementay
CAC+1kb-RI-s	atccggaattcAGCTCCTCTACGTCCGACTTG	CAC2 cmplementay
CAC+1kb-RI-a	ttccggaattcCAGAGCTTATGGA GCAATGC	CAC2 cmplementay
CWO-RFP-NdeI-s	GGA TACA TA TGTGTTGACTA TGGTCATGTCCG	Ecm15-mCherry
CWO-RFP-PstI-a	A T A TACTGCA GTGCTTTGGA TGAGGACTCTT	Ecm15-mCherry
CAC2-up-s	AAGCTCCTCTACGTCCGACTTGCCCTTCACTTCTGAG	CAC2 knockout
COM+NAT-s	CCGCTGCTAGCGCGCCGTGACACGGAA GAGA TGTA GAAACTAGC	CAC2 knockout
COM+CAC2-up-a	CACGGCGCGCCTAGCAGCGGATGTTGGGAGTGTATGGAAAGAG	CAC2 knockout
COM+CAC2-dn-s	GTCA GCGGCCGCA TCCTTGCA GTTGA CGCA TTTGGGATCGGAGC	CAC2 knockout
COM+NAT-a	GCA GGGATGCGGCCGTGACAGGATGTGAGCTGGAGAGCGGCG	CAC2 knockout
CAC2-dn-a	GACTATA GCGCGTACGGTACGCTTCCGGGAGG	CAC2 knockout
MST-up-s	GGTGCA GAGGTCGGCA GCAATTA TCGA TTGTTGACGAG	STL1 knockout
COM+MST-up-a	CACGGCGCGCCTAGCAGCGGATGTGAA GTTGAGATGCGATAGAC	STL1 knockout
COM+MST-dn-s	GTCA GCGGCCGCA TCCTTGCA GGAAATAA TAA TGTA TAGAGATTTAC	STL1 knockout
MST-dn-a	CA TCTTTAGTCAAAGTCA TACATCCAGGCTCTGTTAG	STL1 knockout
ECM-RTPCR-s	GGGTACCCTAGAA TTGCTAC	qPCR
ECM-RTPCR-a	GCTTTGGATGAGGACTCTTTG	qPCR
CAC-RTPCR-s	ATGGAAGGCTGCCACCGGC	qPCR
CAC-RTPCR-a	TAAACGTGTTGACATGTA CCGC	qPCR
MST-RT-s	TTCAGTCTGTTGGCTATGACC	qPCR
MST-RT-a	CGACGATGAACTGGACGAAAC	qPCR
ACT1850-s	ACCATGTACAA TGGA TTGCC	qPCR-control
ACT1910-a	CGTATTCGCTCTTCGCGATC	qPCR-control
MST1500-Nde-Bgl-s	aggaagatctcatatgGATCGTATTTATCCA TTGCCG	STL1 promoter assay
MST1000-Nde-Bgl-s	aggaagatctcatatgGAATCAGGGACGTTTCAGGG	STL1 promoter assay
MST500-Nde-Bgl-s	aggaagatctcatatgGGTTACCGAGCCGAGCGGCAC	STL1 promoter assay
MST50-Nde-Bgl-s	aggaagatctcatatgCAAGTCTAAAGGACATTCCTTC	STL1 promoter assay
STL960s	GACGATATGTCTATA TTTATG	ChIP
STL860a	CAATGACCGAGTCTGCCAAC	ChIP
STL-860s	GTTGGCAGACTCGGTCA TTG	ChIP
STL-760a	CATGCGACGGACAAAATCG	ChIP
STL-760s	CGATTTTTGTCCGTCGCA TG	ChIP
STL-660a	AAGGGTTCTGCCGATTCGG	ChIP
STL-660s	TCGGCAGAACCTTTTTATG	ChIP
STL-560a	GGCAAA TGTGCTGAGTGGAG	ChIP
STLORF2100s	CTAAGCACCCCTCAGGATGAC	ChIP
STLORF2200a	GTGGAGTGGACCA GCCTTC	ChIP
FRE7-700s	TTGTTGATAGGGCTATGTTG	ChIP
FRE7-600a	ACA TCCTACCATGAGATAAC	ChIP
FRE7-600s	TGTA CTTTTAGCGTAAGTC	ChIP
FRE7-500a	TTGTAGATTGCAGAAACTG	ChIP
FRE7-500s	CTGCCATATTA TTGATTTAG	ChIP
FRE7-400a	TGGTAGAAA CGTAAGGATGTG	ChIP
ACT1-1850s	GCCTCTTTGTCTACCTTCCAG	ChIP-control
ACT1-1950a	GTGGACGATGAGGGACCG	ChIP-control
ECM15 OE-s	AATTA GAATTCGTCCGACCA GCTCTACGCCATC	ECM15 OE
ECM15 OE-a	ATA TAGAATTCGTGCTTTGGATGAGGACTCTT	ECM15 OE
CAC2 OE-s	aaccggaattcaATGAGACCCAAAGTTCTTG	CAC2 OE
CAC2 OE-a	atgaattcggTTGCTCCGATCCCAAATGC	CAC2 OE

Table S5C. FISH probes used in this study.

Sequence Name	Sequence	Three Modification
STL1-FISH_1	gtgaagggccaccataagtaa	C3-Fluorescein
STL1-FISH_2	tccaacaatggcatagagca	C3-Fluorescein
STL1-FISH_3	tagccaaacagactgaagcc	C3-Fluorescein
STL1-FISH_4	tgataccagacatgagacct	C3-Fluorescein
STL1-FISH_5	tggcaggaaattcggtgtg	C3-Fluorescein
STL1-FISH_6	catgcacatcgttgacatca	C3-Fluorescein
STL1-FISH_7	taacaggaggtcacagtacc	C3-Fluorescein
STL1-FISH_8	gttcgccaagaataagggcg	C3-Fluorescein
STL1-FISH_9	tcataataatggcgcccata	C3-Fluorescein
STL1-FISH_10	aaggcgcacacagagatgat	C3-Fluorescein
STL1-FISH_11	gatgaactggacgaaaccgc	C3-Fluorescein
STL1-FISH_12	tacaccagtgatcacacgac	C3-Fluorescein
STL1-FISH_13	caggaaggaatggtgcagt	C3-Fluorescein
STL1-FISH_14	atcaggaaaccacggtgtg	C3-Fluorescein
STL1-FISH_15	acagtaccaacagcaactgt	C3-Fluorescein
STL1-FISH_16	accgaaatcgatccagtagg	C3-Fluorescein
STL1-FISH_17	ccaagagacggaactgtca	C3-Fluorescein
STL1-FISH_18	aggattgcaaggcaatggg	C3-Fluorescein
STL1-FISH_19	ggaagaaccataaccacc	C3-Fluorescein
STL1-FISH_20	caatcaaccaacgggtgac	C3-Fluorescein
STL1-FISH_21	taaaccctcatgatcgtagc	C3-Fluorescein
STL1-FISH_22	agagtcgagagcagcaatga	C3-Fluorescein
STL1-FISH_23	gcaatagcgacaggatcatc	C3-Fluorescein
STL1-FISH_24	cttgacatttgggtggcag	C3-Fluorescein
STL1-FISH_25	tctcggaaagtgtgtttt	C3-Fluorescein
STL1-FISH_26	ttgtgaaaagctcgtgg	C3-Fluorescein
STL1-FISH_27	atgacagcattacaaccacc	C3-Fluorescein
STL1-FISH_28	caagtgtggttcaagaccg	C3-Fluorescein
STL1-FISH_29	gacgatagagagaacaccgc	C3-Fluorescein
STL1-FISH_30	gaagaaggaggtgagggcaa	C3-Fluorescein
STL1-FISH_31	ggaaaagcttcgacgacca	C3-Fluorescein
STL1-FISH_32	agtgatgaacatggcagcag	C3-Fluorescein
STL1-FISH_33	atcaccgggaagaagacatc	C3-Fluorescein
STL1-FISH_34	gataaagaccgaaagcgcca	C3-Fluorescein
STL1-FISH_35	gccaagtagcaccaaagaac	C3-Fluorescein
STL1-FISH_36	agggtaaagccaaggagag	C3-Fluorescein
STL1-FISH_37	ctaaccgcatagagttgag	C3-Fluorescein
STL1-FISH_38	gtagaatatgcgttgctg	C3-Fluorescein
STL1-FISH_39	gttgaaaagccagttgacca	C3-Fluorescein
STL1-FISH_40	ttggcaaacctgcacgatg	C3-Fluorescein
STL1-FISH_41	caggaaagtgaagcgccaa	C3-Fluorescein
STL1-FISH_42	aaagttcgtccagtagtctc	C3-Fluorescein
STL1-FISH_43	ggcggaagataacatcgagt	C3-Fluorescein
STL1-FISH_44	acgacgctcggaagatgag	C3-Fluorescein
STL1-FISH_45	gaaatcagtgagcttgggga	C3-Fluorescein
STL1-FISH_46	ggattcataccgatcagtc	C3-Fluorescein
STL1-FISH_47	aagggaagtgcaggagcac	C3-Fluorescein
STL1-FISH_48	catcaggatagtagttgggg	C3-Fluorescein