

Supplemental Table S1: Effects of *tL(GAG)* and *tL(UAG)* on inhibition

Fig panel	tL(GAG) alleles			tL(UAG)	Ae ^{kx}	R ²
	<i>tL(GAG)</i> locus	<i>LYS2</i> locus	Position 33			
2A	1	0	C	3	0.898e ^{-0.575x}	0.96
2A	0	0		3	0.726e ^{-0.793x}	0.95
2B	1	0	C	3	0.870e ^{-0.599x}	0.95
2B	1	0	C	2	0.875e ^{-0.527x}	0.93
2B	1	0	C	1	0.956e ^{-0.421x}	0.9
2C	0	0		3	0.663e ^{-0.725x}	0.95
2C	0	1	C	3	0.830e ^{-0.554x}	0.95
2C	0	1	U	3	0.849e ^{-0.552x}	0.97
2C	1	1	C/C	3	0.902e ^{-0.468x}	0.97
Additional measurements	0	0		3	0.649e ^{-0.741x}	0.93
	1	0	C	3	0.800e ^{-0.563x}	0.94
Additional measurements	0	0		3	0.661e ^{-0.744x}	0.94
	1	0	C	3	0.842e ^{-0.566x}	0.96

Supplemental Table S2: Suppressor Mutations

No	Strain	Codon Insert in <i>URA3</i>	Selection Temp	Mutated Gene	Systematic Name	Mutation-amino acid change	Nucleotide change
1	YBB0930	IIII	37°C	<i>tP(UGG)F; SUF9</i>	YNCF0002W	Anticodon	T34C
2	YBB1080	IIII	38°C	<i>tP(UGG)F; SUF9</i>	YNCF0002W	Anticodon	T34C
3	YBB0984	IIII	38°C	<i>tP(UGG)L</i>	YNCL0001W	Anticodon	T34C
4	YBB0995	IIII	38°C	<i>tP(UGG)L</i>	YNCL0001W	Closing loop	G39T
5	YBB0949	IIII	38°C	<i>tP(UGG)M; SUF7</i>	YNCM0008C	Anticodon	T34C
6	YBB1074	IIII	38°C	<i>tP(UGG)N1</i>	YNCN0009W	Anticodon	T34C
7	YBB1070	IIII	25°C	<i>RPL27A</i>	YHR010W	D30fsΔ22	A650Δ 62 bases
8	YBB0946	IIII	25°C	<i>RPL36B</i>	YPL249C-A	L57*	T408A
9	YBB1065	IIII	25°C	<i>RPL36B</i>	YPL249C-A	P24fs	C309CC
10	YBB0892	OIIIO	30°C	<i>RPL4A</i>	YBR031W	K314*	A940T
11	YBB0920	OIIIO	25°C	<i>RPL7A</i>	YGL076C	R88*	A1189T
12	YBB1058	OIIIO	30°C	<i>RPL7A</i>	YGL076C	I6fs	T476Δ
13	YBB1047	IIII	38°C	<i>BCP1</i>	YDR361C	N69D	A205G
14	YBB1030	OIIIO	30°C	<i>NOG2</i>	YNR053C	P324S	C970T
15	YBB1069	IIII	25°C	<i>NOP4</i>	YPL043W	A177D	C530A
16	YBB1075	IIII	25°C	<i>RSA4</i>	YCR072C	T467K	C1401A
17	YBB0869	IOIO	18°C	<i>RPA190</i>	YOR341W	G787A	G2360C
18	YBB1141	OIIIO	18°C	<i>RPA190</i>	YOR341W	P1196R	C3587G
19	YBB1004	IOIO	25°C	<i>SCH9</i>	YHR205W	L529F	A1587T
20	YBB1101	IIII	18°C	<i>SCH9</i>	YHR205W	I684fs*	A2050AA & C2054T
21	YBB1103	IIII	18°C	<i>SCH9</i>	YHR205W	P541R	C1622G
22	YBB1108	IIII	18°C	<i>SCH9</i>	YHR205W	N543S	A1628G
23	YBB1114	OIIIO	18°C	<i>SCH9</i>	YHR205W	Q618*	C1852T
24	YBB1131	IOII	18°C	<i>SCH9</i>	YHR205W	S511fs	T1531TT; C1532G
25	YBB1031	OIIIO	30°C	<i>MOT1</i>	YPL082C	W307R	T919C
26	YBB1064	IOII	30°C	<i>MOT1</i>	YPL082C	Q1306K	C3916A
27	YBB1116	IOII	18°C	<i>MOT1</i>	YPL082C	Q252*	C754T

Supplemental Table S3: Suppressor Mutations in *hel2*Δ strains

Number	Strain	Codon Insert in <i>URA3</i>	Selection Temp	Mutated Gene	Systematic Name	Mutation-amino acid change	Nucleotide change
1	YBB1500	OIIO	30°C	<i>RPL36B</i>	<i>YPL249C-A</i>	L50*	T387G
2	YBB1530	OIIO	30°C	<i>RPL31A</i>	<i>YDL075W</i>	splicing defect	T477G; intron -2 from 3' splice site atagTT to attgTT
3	YBB1513	IIII	30°C	<i>RPL10</i>	<i>YLR075W</i>	H51R	A152G
4	YBB1511	IIII	30°C	<i>PXR1</i>	<i>YGR280C</i>	K57*	A169T
5	YBB1499	OIIO	30°C	<i>RPA190</i>	<i>YOR341W</i>	N1203K	T3609G
6	YBB1583	IIII	18°C	<i>SCH9</i>	<i>YHR205W</i>	L343*	G1787A
7	YBB1584	IIII	18°C	<i>SCH9</i>	<i>YHR205W</i>	W596*	G1787A
8	YBB1540	IIII	25°C	<i>SCH9</i>	<i>YHR205W</i>	R461G	A1381G
9	YBB1586	IIII	18°C	<i>VAC8</i>	<i>YEL013W</i>	S347*	C1040G
10	YBB1524	OIIO	25°C	<i>MOT1</i>	<i>YPL082C</i>	S545*	C1634A
11	YBB1563	IIII	30°C	<i>SIN4</i>	<i>YNL236W</i>	Y463*	C1389A

Supplemental Table S4: Suppressor Mutations in *mbf1*Δ strains

Number	Strain	Codon Insert into <i>URA3</i>	Selection Temp	<i>Mutated Gene</i>	Systematic Name	Mutation-amino acid change	Nucleotide change
1	YBB1362	OIIO	30°C	<i>PXR1</i>	<i>YGR280C</i>	R93*	<i>C277T</i>
2	YBB1394	OIIO	37°C	<i>PXR1</i>	<i>YGR280C</i>	S106*	<i>C317G</i>
3	YBB1385	OIIO	30°C	<i>CGR1</i>	<i>YGL029W</i>	Q49FS	<i>C145CA</i>
4	YBB1450	OIIO	18°C	<i>SCH9</i>	<i>YHR205W</i>	I684fs	A2050delta