

APPENDIX. Table of polymorphisms of European strains at six loci. Position numbers with reference to published sequence for *S. paradoxus* (CBS432T) in Genbank, numbers starting at first coding nucleotide; for noncoding regions, numbers start at beginning of noncoding region, and negative numbers indicate upstream regions. Coding regions denoted by C and shading; nonsynonymous substitutions by N and bold. R indicates the repeat region in MFalpha1 and RN gives the number of repeats. Consensus nucleotides are shown for European, Far Eastern and Canadian/Brazilian strains and for *S. cerevisiae* Type strain. Only one heterozygous site was found, in the SAG1 fragment of strain T18.2. Identical genotypes within geographic regions have been merged using MacClade's option of considering taxa redundant even if states are not identical, as along as a resolution of missing data could make them identical. This table incorporates data from Johnson *et al.* (2004).

			SAG1	AGA2	STE2	STE3	MFA1	MFalpha1		
			1		1 1					
			8 9 9 9 4		8 1 2	- - 7 8 8 9 2 2 3	1 1 2 2 2 2	1 2 3 1 1	3 3 3 3 4 1	
Position			2 2 7 7 8	8 3 7 7	3 0 3 8 9 1 1	9 0 5 7 1 9 6	6 0 9 2 3 8 9	1 3 4 4 3 0	1 2 3 5 5 1	
Coding (C)/Noncoding			5 0 6 7 5	2 3 8 9	7 6 3 7 2 3 0	2 5 8 7 8 7 5	0 9 3 1 1 9 8	8 4 9 4 0 8	8 4 1 3 4 5 7	
Nonsynonymous (N)/Synonymous			C C C C C	C	C C C	C C C C C C	C	C	C C C C	
			N N N	N	N	N N N			N N N	
Location								R	R R R R	RN
Strain ID										
Clone ID										
Russia	Leningrad	YPS3	A C A A G	A A T T	C C C A C	T G G C C C	C A G G	C	T A T - A	2
	Moscow	YPS4	.	.	T . A . .	.	T . . . .	.	. . . G .	3
		YPS8	.	.	.	.	T . . . .	.	. . . G .	3
		ATCC96975	.	G -	.	.	T . . . .	.	. . . G G	3
		ATCC96983	.	.	.	.	T . . A .	.	. . . G .	3
		ATCC96986	G G	G -	.	.	T . . . .	.	. . . G .	3
Latvia	Sigulda	SIG1+SIG8	.	G -	.	.	T . . . .	.	. . . G .	3
		SIG3	.	.	T . A . .	.	.	.	. . . G .	3
		SIG6	T . . . .	.	.	.	.	.	. . . . .	.
	Riga	RIG3	.	.	.	.	T . . . .	.	. . . . .	.
		RIG10	.	.	T . . . .	.	T . . . .	.	. . . G .	3
		RIG11	.	.	.	.	T . . . .	.	. . . G .	3
Sweden	Stockholm	STOC3	.	.	.	.	T	T	C G . . .	.
Unknown		CBS432T	.	G G -	.	G A T G	C T A G A T -	A . . . .	. . . . .	C
Denmark		CBS5829	.	.	T T T G	.	A T	T . . . .	. . . G .	3
Spain	J. Santa Maria	CECT10176	.	G -	T . . . .	.	.	.	. . . A .	3
		CECT10308+CECT10329	.	G -	T . A . .	T . . . .	.	.	. . . A .	3
U.K.	Silwood Park & Windsor Great Park	T62.1	.	G -	.	T . C	A T A C C T A	T . . . .	. . . G .	3
		T76.6+Q31.4	.	.	T	T	T A	T . . . .	. . . G .	3
		Q4.1	.	.	T	T	T	T . . . .	. . . A .	3
		Q32.3	A	G -	T	T	T	T . . . .	. . . G .	3
		Q59.1	.	G -	T T T . .	.	T	T . . . .	. . . G .	3
		Q70.8+T68.2	.	G -	T	T	T	T . . . .	. . . A .	3
		Y1+(3Ys)	.	G -	T . . . .	.	T	T . . . .	. . . A .	3
		Y2+Y10	.	G -	T . . . .	.	T	T . . . .	. . . A .	3
		Y2.2+(3Ys)	.	G -	.	T	T	T . . . .	. . . A .	3
		Y4+(4Ys+6Zs+6Ts)	G . . . A	G -	.	.	.	T . . . .	. . . G .	3
		Y4.5	G . . . A	.	T T . . . .	.	.	T . . . .	. . . A .	3
		Y5+Y7.1	.	.	T T T . . . .	.	T - T . . . .	.	. . . A .	3
		Y6	G . . . A	.	T T . . . .	.	.	T . . . .	. . . A .	5
		Y6.5+(1Y+2Zs)	.	G -	.	.	.	T . . . .	. . . A .	3
		Y7	G . . . A	G -	T T . . . .	.	.	T . . . .	. . . A .	3
		Y8.1	.	G .	T T . . . .	.	.	T . . . .	. . . G .	3
		Y8.6+(3Ys)	.	.	T T . . . .	.	.	T . . . .	. . . A .	3
		Z1+(19Zs)+Q95.3	.	G -	.	.	.	T . . . .	. . . G .	3
		Z1.1	G . . . A	.	T T . . . .	.	.	T . . . .	. . . . .	1

