

Table\_S1

Table S1: Strains and genomes sequences used in the study

Strain name	Gene detection <sup>1</sup>	Chr. Insertion <sup>2</sup>	PFGE detection <sup>3</sup>	BLAST <sup>4</sup>	Origin <sup>5</sup>	Isolation <sup>6</sup>	Provided by	Genome source <sup>7</sup>
<i>Saccharomyces cerevisiae</i> JAY291	-	-	-	11	Brazil	Haploid derivative from bioethanol production strain PE-2	Sequence provided by GenBank	GenBank:ACFL0000000
<i>Saccharomyces cerevisiae</i> NT50	-	-	-	-	South Africa	Wine	Anchor Yeast Ltd, South Africa	
<i>Saccharomyces cerevisiae</i> N96	+	10;12;14a	10;12;14	-	South Africa	Wine	Anchor Yeast Ltd, South Africa	
<i>Saccharomyces cerevisiae</i> AWRI1631	-	-	-	+	Australia	Derivative from a meiotic spore of N96	GenBank	GenBank:ABSV0000000
<i>Saccharomyces cerevisiae</i> AWRI1350	+	10	10	-	Australia	Wine	Australian Wine Research Institute (AWRI), Glen Osmond, Australia	
<i>Saccharomyces cerevisiae</i> AWRI796	+	-	13 or 16	-	South Africa	Wine	Australian Wine Research Institute (AWRI), Glen Osmond, Australia	
<i>Saccharomyces cerevisiae</i> CBS400	-	-	-	-	Ivory Coast	Palm wine	Centraalbureau voor Schimmelcultures (CBS), Utrecht, The Netherlands	
<i>Saccharomyces cerevisiae</i> CECT1882	-	-	-	-	Spain	Veil from wine	Colección Española de Cultivos Tipo (CECT), Universidad de Valencia, Spain	
<i>Saccharomyces cerevisiae</i> T73	+	-	4;10	-	Valencia, Spain	Wine	Departamento de Biotecnología de Alimentos, Instituto de Agroquímica y Tecnología de los Alimentos, Valencia, Spain	
<i>Saccharomyces cerevisiae</i> MJ104	-	-	-	-	Lebanon	Wine	Centre International de Ressources Microbiennes (CIRM-Levures), Thiverval-Grignon, France	
<i>Saccharomyces cerevisiae</i> MJ34	+	10	10	-	Lebanon	Wine	Centre International de Ressources Microbiennes (CIRM-Levures), Thiverval-Grignon, France	
<i>Saccharomyces cerevisiae</i> MJ73	-	-	-	-	Lebanon	Wine	Centre International de Ressources Microbiennes (CIRM-Levures), Thiverval-Grignon, France	
<i>Saccharomyces cerevisiae</i> NPA31	-	-	-	-	Nigeria	Palm wine	Dept. Biol. Sciences, Michael Okpara University of Agriculture, Umudike, Abia State, Nigeria	
<i>Saccharomyces cerevisiae</i> 3238-32	+	10;12;14a	10;12;14	-	Sardinia, Italy	Derived from the Sardinian flor strain A9	Dipartimento di Scienze Ambientali Agrarie e Biotecnologie Agro-alimentari (DISAABA), University of Sassari, Sassari, Italy	
<i>Saccharomyces cerevisiae</i> A9	-	-	-	-	Sardinia, Italy	Veil from Sardinian Arvisonadu wine	Dipartimento di Scienze Ambientali Agrarie e Biotecnologie Agro-alimentari (DISAABA), University of Sassari, Sassari, Italy	
<i>Saccharomyces cerevisiae</i> M25	-	-	-	-	Sardinia, Italy	Veil from Sardinian Malvasia di Bosa wine	Dipartimento di Scienze Ambientali Agrarie e Biotecnologie Agro-alimentari (DISAABA), University of Sassari, Sassari, Italy	
<i>Saccharomyces cerevisiae</i> Fermichamp	-	-	-	-	Alsace, France	Wine	DSM Food Specialities B.V., Delft, The Netherlands	
<i>Saccharomyces cerevisiae</i> JYM789	-	-	-	-	Kansas City, Kansas, USA	Clinical isolate derivative	Duke University Medical Center, Durham, USA	GenBank:AAFV0000000
<i>Saccharomyces cerevisiae</i> Bb32	+	14b	14	-	California, USA	Wine	Fred Hutchinson Cancer Research Center, Seattle, Washington, USA	
<i>Saccharomyces cerevisiae</i> RM11-1a	+	14b	14	14	California, USA	Haploid derivative of Bb32(3)	Fred Hutchinson Cancer Research Center, Seattle, Washington, USA	GenBank:AAEG0000000
<i>Saccharomyces cerevisiae</i> L2226	-	-	-	-	Rhône valley, France	Wine	Inter Rhône, Avignon, France	
<i>Saccharomyces cerevisiae</i> Zymaflore VL1	+	-	4	-	Bordeaux, France	Wine	Laffort, Bordeaux, France	
<i>Saccharomyces cerevisiae</i> EC1118	+	10;12;14a	10;12;14	10;12;14	Champagne, France	Wine	Lallemend Inc, Montreal, Canada	GenBank:FN393058-FN393060-FN393062-FN393087-FN394216-FN394217
<i>Saccharomyces cerevisiae</i> QA23	+	10;12;14a	10;12;14	-	Portugal	Wine	Lallemend Inc, Montreal, Canada	
<i>Saccharomyces cerevisiae</i> Côte de Blancs	-	-	-	-	France	Wine	Lesaffre - Marçay-en-Barrois, France	
<i>Saccharomyces cerevisiae</i> Levuline BRG	-	-	-	-	Burgundy, France	Wine	Oenofrance, Bordeaux, France	
<i>Saccharomyces cerevisiae</i> C19	+	10;12;14a	10;12;14	-	Alsace, France	Wine	Oenofrance, Bordeaux, France	
<i>Saccharomyces cerevisiae</i> CIVC8130	+	10;12;14a	10;12;14	-	Champagne, France	Wine	Oenofrance, Bordeaux, France	
<i>Saccharomyces cerevisiae</i> Y52	-	-	-	+	Australia	Baker strain	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> Y54	+	-	13 or 16	+	Netherlands	Baker strain	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> Y59	+	-	7 or 15	+	Singapore	Baker strain	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> DBVPG6044	-	-	-	-	West Africa	Bili wine	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> UWOPS87-2421	-	-	-	-	Hawaii	Cladode, <i>Opuntia megacantha</i>	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> 322134S	+	12;14	7 or 15	+	RVI, Newcastle UK	Clinical isolate	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> 378604X	-	-	-	-	RVI, Newcastle UK	Clinical isolate	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> 273614N	-	-	-	-	RVI, Newcastle UK	Clinical isolate	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> JYM978	-	-	-	-	Bergamo, Italy	Clinical isolate	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> JYM981	-	-	-	-	Bergamo, Italy	Clinical isolate	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> JYM975	-	-	-	-	Bergamo, Italy	Clinical isolate	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> UWOPS83-787.3	-	-	-	-	Bahamas	Fruit, <i>Opuntia stricta</i>	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> NCYC361	-	-	-	+	Ireland	Beer spoilage from wort	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> NCYC110	-	-	-	-	West Africa	Ginger beer from <i>Z. officinale</i>	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> UWOPS03-461.4	-	-	-	-	Malaysia	Nectar, Bertam palm	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> UWOPS05-217.3	-	-	-	-	Malaysia	Nectar, Bertam palm	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> YPS606	-	-	-	-	Pennsylvania, USA	Oak	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> YPS128	-	-	-	-	Pennsylvania, USA	Soil beneath oak	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> Y9	-	-	-	-	Japan	Ragi (similar to sake wine)	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> DBVPG6040	-	-	-	-	Netherlands	Fermenting fruit juice	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> SK1	-	-	-	-	USA	Soil	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> DBVPG1788	-	-	-	-	Finland	Soil	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> DBVPG1373	+	-	7 or 15	+	Netherlands	Soil	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> UWOPS05-227.2	-	-	-	-	Malaysia	<i>Trigona</i> spp (Stingless bee) collected near Bertam palm flower	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> DBVPG6765	-	-	-	-	Unknown	Unknown	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> DBVPG1853	+	-	4	+	Ethiopia	White Teff ( <i>Eragrostis tef</i> )	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> DBVPG1106	+	10	10	+	Australia	Grapes	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> Y1617-45	-	-	-	-	Sauvignies, France	Wine	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> DC187	+	14b	11;14	+	Napa Valley, USA	Wine	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> L-1374	+	-	11	+	Chile	Wine	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> L-1528	-	-	-	+	Chile	Wine	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> Y55	-	-	-	-	France	Grapes	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> Y12	-	-	-	-	Ivory Coast	Palm wine	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> K11	-	-	-	-	Japan	Shochu sake strain	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> W303	-	-	-	-	Unknown	Laboratory	Saccharomyces Genome Resequencing Project (SGRP), University of Nottingham, England	SGRP data download
<i>Saccharomyces cerevisiae</i> L1414	+	10;12;14ab	-	-	Beaujolais France	Wine	Sisrex Beaujolais, Villefranche sur Saône, France	
<i>Saccharomyces cerevisiae</i> Vitilevure 58W3	-	-	-	-	Alsace, France	Wine	Sofralab, Epemay, France	
<i>Saccharomyces cerevisiae</i> R1M	+	12	12;(13 or 16)	-	Montpellier, France	Wine	UMR1083, Sciences Pour l'Oenologie (SPO), INRA, Montpellier, France	
<i>Saccharomyces cerevisiae</i> VS	+	10	10	-	Montpellier, France	Meiotic spore of strain CIVC8130	UMR1083, Sciences Pour l'Oenologie (SPO), INRA, Montpellier, France	
<i>Saccharomyces cerevisiae</i> 59A	+	10	10	10	Montpellier, France	Meiotic spore of strain EC1118	UMR1083, Sciences Pour l'Oenologie (SPO), INRA, Montpellier, France	
<i>Saccharomyces cerevisiae</i> S288C	-	-	-	-	Montpellier, France	Laboratory	UMR1083, Sciences Pour l'Oenologie (SPO), INRA, Montpellier, France	Saccharomyces Genome Database (SGD)
<i>Saccharomyces cerevisiae</i> S22Davies	-	-	-	-	Burgundy, France	Wine	UMR1131, Santé de la Vigne et Qualité du Vin (SVQV), INRA, Colmar, France	
<i>Saccharomyces cerevisiae</i> Eg25	+	14ab	14	-	Alsace, France	Wine	UMR1131, Santé de la Vigne et Qualité du Vin (SVQV), INRA, Colmar, France	
<i>Saccharomyces cerevisiae</i> Eg8/136	-	-	-	-	Alsace, France	Wine	UMR1131, Santé de la Vigne et Qualité du Vin (SVQV), INRA, Colmar, France	
<i>Saccharomyces cerevisiae</i> 6hPenciu	+	12	(7 or 15)(13 or 16);12	-	Romania	Wine	University of Bucharest, Romania	
<i>Saccharomyces cerevisiae</i> F12	+	12	4;12	-	Cordoba, Spain	Veil from wine	University of Cordoba, Cordoba, Spain	
<i>Saccharomyces cerevisiae</i> F25	-	-	-	-	Cordoba, Spain	Veil from wine	University of Cordoba, Cordoba, Spain	
<i>Saccharomyces cerevisiae</i> M22	-	-	-	13	Italy	Vineyard	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i> YPS163	-	-	-	-	Lima, Pennsylvania, USA	Oak tree exudates	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i> CBS7960 (cDBVPG7960)	-	-	-	10	Sao Paulo, Brazil	Ethanol production factory	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i> CLIB215	-	-	-	-	New Zealand	Baker's yeast	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)

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<i>Saccharomyces cerevisiae</i>	CLIB324		10	Saigon, Vietnam	Baker's yeast	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	CLIB382 (=DBVPG6175)		13	Ireland	Super-attenuated beer	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	FL100 (= ATCC28383)		-		Laboratory	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	I14		-	Petrina, Italy	Soil	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	IL-01		-	Cahokia, Illinois	Soil	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	NC-02		-	North Carolina, USA	Oak tree exudates	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	PW5		-	Abu, Abia state, Nigeria	Raphia palm wine	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	T7		-	Babler State Park, Missouri, USA	Oak tree exudates	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	T73		10	Alicante, Spain	Wine	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	UC5		-	Kamshi, Japan	Sens sake	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	WE372		13	Cape Town, South Africa	Wine	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	Y10 (=NRRL y7567)		-	Philippines	Cocunut	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	Y12 (=NRRL y12633)		-	Ivory Coast	Palm wine	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	Y9 (=NRRL y5997)		-	Java, Indonesia	Ragi (African or finger millet)	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	YJM269		-		Grapes	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	YJM280		10	USA	Clinical sample	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	YJM320		-	USA	Clinical sample	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	YJM326		-	USA	Clinical sample	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	YJM421		-	USA	Clinical sample	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	YJM428		-	USA	Clinical sample	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	YJM451		+	Europe	Clinical sample	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	YJM653		-		Clinical sample	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Saccharomyces cerevisiae</i>	YPS1009		-	Mettler Woods, New Jersey, USA	Oak tree exudates	Washington University School of Medicine in St Louis, USA	Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA)
<i>Zygosaccharomyces bailii</i>	CLIB213 <sup>7</sup> (=CBS680)	+		+	Japan	Brewery	Centre International de Ressources Microbiennes (CIRM-Levures), Thiverval-Grignon, France

### Legend

Positive detection	+
Negative detection	-
Not tested	

### Footnotes

- <sup>1</sup> Detection of the genes of region B was performed by specific PCR amplification of coding sequences and intergenic regions.
- <sup>2</sup> Position on chromosome was tested by specific PCR amplifications of the 4 major junctions present on chromosome 10, 12, 14a (EC1118 form) and 14b (RM11-1a form)
- <sup>3</sup> Chromosome identification was assayed by Pulsed Field Gel Electrophoresis (PFGE) followed by Southern blot hybridization using region B's specific probes.
- <sup>4</sup> Similarity search of region B in available *S. cerevisiae* genomes was performed using blastn (no filter, expected value < 10<sup>-10</sup>, minimum identity 97%).
- <sup>5</sup> Geographical location of their isolation.
- <sup>6</sup> Material from which the strain was isolated.
- <sup>7</sup> Origin of the genome sequences:

EMBL-GenBank

Saccharomyces Genome Database (SGD): <http://downloads.yeastgenome.org>

SGRP data download: <ftp://ftp.sanger.ac.uk/pub/dmc/yeast/latest> (2008)

Courtesy Justin Fay, Center for Genome Sciences, St Louis, MO (USA): <http://www.genetics.wustl.edu/jflab/data.html> (October 2010)