

Appendix S1. Proteins in the reference *Saccharomyces cerevisiae* (S288C) and their corresponding orthologues in investigated yeasts

<i>Yarrowia lipolytica</i> (CLIB122)				<i>Candida albicans</i> (WD-1)				<i>Debarya brucei</i> (AWRI 1499)				<i>Kluyveromyces lactis</i> (Y707)				<i>Candida glabrata</i> (Y475)				<i>Saccharomyces cerevisiae</i> (Y706)				<i>Saccharomyces cerevisiae</i> (S288C)					
Genebank ID	E value	Identities	Positives	Genebank ID	E value	Identities	Positives	Genebank ID	E value	Identities	Positives	Genebank ID	E value	Identities	Positives	Genebank ID	E value	Identities	Positives	Genebank ID	E value	Identities	Positives	Genebank ID	E value	Identities	Positives	Protein	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
g 49650080	3.4e-133	250/496 (50%)	334/496 (67%)	g 238881848	2.3e-143	262/497 (52%)	352/497 (70%)	g 385304822	5.1e-123	224/442 (50%)	299/442 (67%)	g 49644898	2.4e-84	171/522 (32%)	298/522 (57%)	g 49524971	3.2e-137	247/540 (45%)	366/540 (67%)	g 392299430	3.1e-297	535/535 (100%)	535/535 (100%)	g 1392296702	6.5e-297	535/535 (100%)	535/535 (100%)	ATF1 (YOR177W)	
g 49647333	2.9e-51	132/448 (29%)	221/448 (49%)	g 238881328	7.1e-89	171/439 (38%)	260/439 (59%)	g 385302174	1.2e-52	132/362 (36%)	195/362 (53%)	g 49644672	4.6e-177	318/504 (63%)	388/504 (76%)	g 49525724	9E-197	355/508 (69%)	419/508 (82%)	g 392299549	4.3e-277	499/500 (99%)	500/500 (100%)	g 392299549	4.3e-277	499/500 (99%)	500/500 (100%)	AROB (YGL202W)	
g 49648423	6.8e-128	243/495 (49%)	331/495 (66%)	-	-	-	-	-	-	-	-	g 49642693	9.6e-161	292/506 (57%)	381/506 (75%)	g 49525932	9.6e-163	292/506 (57%)	381/506 (75%)	g 392298944	4.6e-280	513/513 (100%)	513/513 (100%)	g 392298944	4.6e-280	513/513 (100%)	513/513 (100%)	AROB (YHR137W)	
g 49647250	1.5e-162	294/488 (60%)	379/488 (77%)	-	-	-	-	g 385302426	4.6e-177	325/524 (62%)	401/524 (76%)	g 49642640	2.4e-189	340/501 (67%)	412/501 (82%)	g 49525613	1.9e-182	329/503 (65%)	400/503 (79%)	-	-	-	-	-	-	-	-	ALD2 (YMR179C)	
-	-	-	-	g 238882092	7.8e-175	318/499 (63%)	393/499 (78%)	-	-	-	-	g 49644235	2E-222	395/512 (77%)	457/512 (89%)	g 49525001	1E-234	423/514 (82%)	470/514 (91%)	g 392296700	1.6e-279	519/519 (100%)	519/519 (100%)	g 392296700	1.6e-279	519/519 (100%)	519/519 (100%)	ALD4 (YOR374W)	
-	-	-	-	-	-	-	-	g 49641679	4E-226	398/502 (79%)	449/502 (89%)	g 49641127	3E-205	364/491 (74%)	435/491 (88%)	g 49527155	5.6e-230	400/513 (77%)	449/513 (87%)	g 392299771	2.8e-280	520/520 (100%)	520/520 (100%)	g 392299771	2.8e-280	520/520 (100%)	520/520 (100%)	ALD5 (YHR073W)	
-	-	-	-	-	-	-	-	-	-	-	-	g 4964238	1.3e-135	240/381 (62%)	298/381 (78%)	g 49524727	2.2e-129	231/383 (60%)	291/383 (75%)	g 392301243	2.7e-211	382/382 (100%)	382/382 (100%)	g 392301243	2.7e-211	382/382 (100%)	382/382 (100%)	BDH1 (YAL060W)	
g 49648146	8.6e-137	247/390 (63%)	300/390 (76%)	g 238879061	2.9e-97	181/394 (45%)	255/394 (64%)	g 385303323	5.3e-105	199/378 (52%)	264/378 (69%)	g 49644239	2E-128	230/377 (61%)	289/377 (76%)	g 49526328	9.9e-207	361/495 (72%)	434/495 (87%)	g 392301232	3.8e-230	412/417 (98%)	412/417 (98%)	g 392301232	3.8e-230	412/417 (98%)	412/417 (98%)	BDH2 (YAL061W)	
-	-	-	-	g 238882204	5.6e-133	248/371 (66%)	287/371 (77%)	g 385302974	2.3e-143	257/372 (69%)	305/372 (81%)	g 49640582	1.1e-173	315/383 (82%)	337/383 (87%)	g 49525675	4.9e-173	308/372 (82%)	334/372 (89%)	g 392299022	4.1e-217	393/393 (100%)	393/393 (100%)	g 392299022	4.1e-217	393/393 (100%)	393/393 (100%)	BAT1 (YHR089W)	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g 392298577	6.7e-208	376/376 (100%)	376/376 (100%)	g 392298577	6.7e-208	376/376 (100%)	376/376 (100%)	BAT2 (YJR148W)

Orthologs are identified by their unique Genebank ID. The E value indicates the statistical significance of each alignment. The lower the E value, the more significant is the hit, and the less likely it is to have occurred by chance. Identities is the ratio (and percentage) of identical aminoacids and the subject length for each alignment. Positives is the ratio (and percentage) of conservative substitutions and the subject length for each alignment, as defined by the substitution matrix (BLOSUM62).