

Table S1. List of the novel species *Stenotrophomyces fumitolerans* WT5, the representatives of the family *Saccharomycetaceae* and outgroup taxa from families *Debaryomycetaceae*, *Phaffomycetaceae*, and *Pichiaceae* used for multi-locus phylogenetic analysis. Type strains were used for the analysis.

Strains	GenBank accession number for sequences				
	ITS	18S	26S	<i>TEF1</i>	<i>RPB2</i>
<i>Barnettozyma populi</i> CBS 8094	NR_153632	JQ698877	EF550277	EF552501	JQ698938
<i>Candida glabrata</i> CBS 138	AY046165	AY046237	U44808	AF402029	AF527898
<i>Cyberlindnera americana</i> CBS 5644	NR_152479	JQ698878	EF550328	EF552552	JQ698940
<i>Debaryomyces hansenii</i> JCM 1990	NR_120016	JQ698910	JQ689041	JQ699068	JQ698984
<i>Dekkera bruxellensis</i> CBS 72	NR_165974	JQ698898	JQ689028	JQ699055	JQ698969
<i>Eremothecium cymbalariae</i> NRRL Y-17582	AY046219	JQ698891	JQ689024	AF402090	JQ698962
<i>Eremothecium gossypii</i> NRRL Y-1056	AY046216	AY046265	U43389	AF402087	AY497595
<i>Kazachstania africana</i> CBS 2517	AY046155	AY046229	AY048159	AF402019	AF527887
<i>Kazachstania exigua</i> NRRL Y-12640	AY046170	X98868	AY048163	AF402034	AF527902
<i>Kazachstania humilis</i> CBS 5658	AY046174	AY046243	U69878	AF402039	AF527906
<i>Kazachstania lodderae</i> CBS 2757	AY046160	X83824	AY048161	AF402024	AF527893
<i>Kazachstania martiniae</i> CBS 6334	AY046157	AY046231	AF398481	AF402021	AF527890
<i>Kazachstania piceae</i> CBS 7738	AY046159	AY046233	U84346	AF402023	AF527892
<i>Kazachstania servazzii</i> CBS 4311	AY046153	Z75581	AY048157	AF402017	AF527885
<i>Kazachstania telluris</i> CBS 2685	AY046164	AY046236	U72158	AF402028	AF527897
<i>Kazachstania viticola</i> CBS 6463	AY046162	JQ698889	JQ689020	AF402026	AF527895
<i>Kluyveromyces lactis</i> NRRL Y-8278	AY046213	AY046264	U94919	AF402084	AY497620
<i>Kluyveromyces marxianus</i> NRRL Y-8281	AY046214	X89523	JQ689023	AF402085	JQ698961
<i>Kregervanrija fluxuum</i> CBS 2287	NR_111196	JQ698897	EF550268	JQ699054	JQ698968
<i>Lachancea kluyveri</i> CBS 3082	AY046209	Z75580	U68552	AF402079	AY497609
<i>Lachancea thermotolerans</i> CBS 6340	AY046207	X89526	JQ689022	AF402077	JQ698960
<i>Lodderomyces elongisporus</i> CBS 2605	NR_111593	JQ698906	JQ689035	JQ699062	JQ698978
<i>Meyerozyma guilliermondii</i> CBS 2030	NR_111247	JQ698913	JQ689047	JQ699074	JQ698990
<i>Millerozyma farinosa</i> CBS 185	NR_111254	AB054281	JQ689046	JQ699073	JQ698989
<i>Nakaseomyces delphensis</i> CBS 2170	AY046166	X83823	JQ689014	AF402030	AF527899
<i>Naumovozya castellii</i> CBS 4309	AY046180	Z75577	AY048167	AF402045	AY548498
<i>Naumovozya dairenensis</i> CBS 421	AY046181	Z75579	JQ689019	AF402046	AF527908
<i>Pichia membranifaciens</i> CBS 107	NR_111195	JQ698896	EF550227	JQ699053	JQ698967
<i>Saccharomyces cerevisiae</i> NRRL Y-12632	AY046146	EU011664	JQ689017	AF402004	AF527884
<i>Saccharomyces kudriavzevii</i> CBS 8840	AY046150	AY046226	AF398480	AF402011	KC881091
<i>Saccharomycodes ludwigii</i> NRRL Y-12793	AY046204	JQ698892	U73601	AF402074	JQ698963
<i>Saturnispora dispora</i> CBS 794	NR_155832	JQ698895	JQ689027	JQ699052	JQ698966
<i>Schizosaccharomyces pombe</i> ATCC 38366	NR121563.1	AY046272	JQ689077	AF402093	NM_001018498
<i>Starmera amethionina</i> CBS 6940	CBS data	JQ698876	JQ689006	EF552506	JQ698937
<i>Stenotrophomyces fumitolerans</i> WT5	OQ708375	OQ708375	OQ708375	OR661267	OQ715316
<i>Tetrapisispora arboricola</i> CBS 8765	NR_155927	NG_064806	NG_058411	AF402043	GCA_030557565
<i>Tetrapisispora blattae</i> CBS 6284	NR_155928	NG_063244	KY109818	AF402040	GCF_000315915
<i>Tetrapisispora phaffii</i> CBS 4417	AY046176	JQ698887	JQ689013	AF402041	JQ698951
<i>Torulaspora delbrueckii</i> NRRL Y-866	AY046187	X98120	JQ689018	AF402052	JQ698956
<i>Vanderwaltozyma polyspora</i> CBS 2163	AY046182	JQ698890	JQ689021	AF402047	AF527909
<i>Wickerhamomyces anomalus</i> NRRL Y-366	AY046221	EF550479	U74592	AF402092	EF599479
<i>Wickerhamomyces canadensis</i> CBS 1992	KY105899	EF550438	JQ689007	EF552524	JQ698939
<i>Yueomyces sinensis</i> CBS 7075	NR_159012	KP866235	NG_055015	KP866224	KP866228

<i>Zygosaccharomyces bailii</i> CBS 680	AY046191	X91083	U72161	AF402060	KC678068
<i>Zygotorulaspora dagestanica</i> KBP:Y-4591	MW036827	MW036827	MW036827	LR884242	LR884244
<i>Zygotorulaspora florentina</i> CBS 746	AY046168	X91086	U72165	AF402032	AF527900
<i>Zygosaccharomyces kombuchaensis</i> CBS 8849	AY046193	AF339890	AF339904	AF402062	KT728704
<i>Zygotorulaspora mrakii</i> CBS 4218	AY046169	JQ698888	JQ689015	AF402033	AF527901
<i>Zygosaccharomyces rouxii</i> CBS 732	AY046189	AY046251	JQ689016	AF402054	JQ698954
