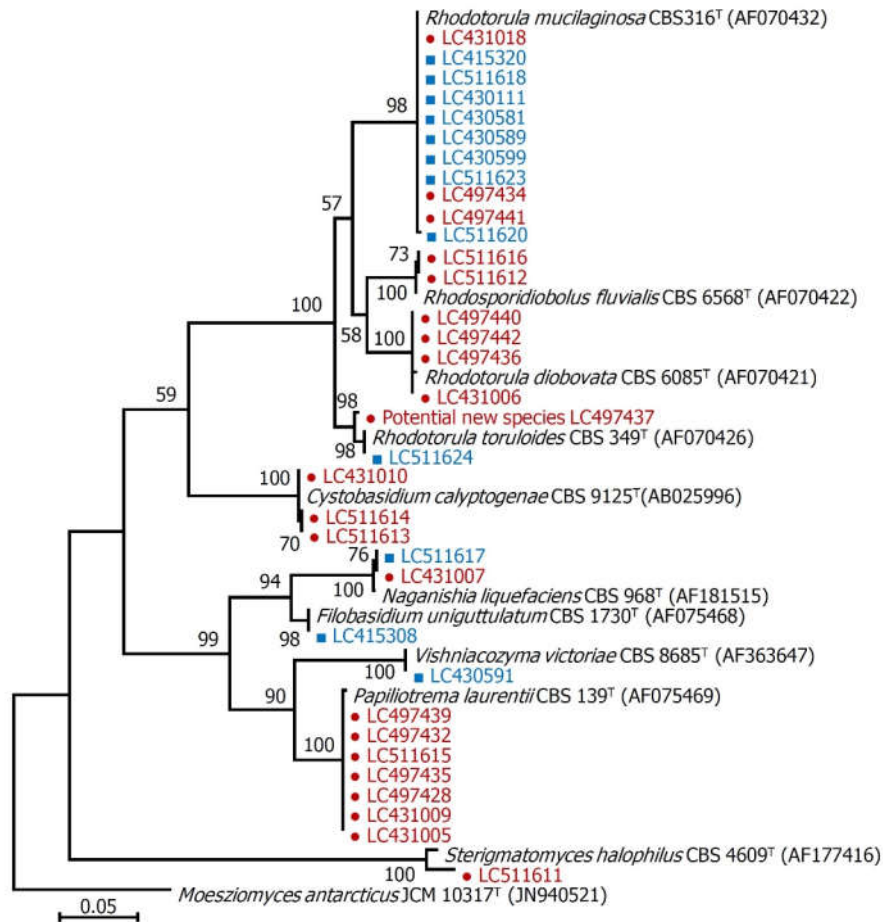


**Figure S1.** Phylogenetic relationship based on the sequence of the D1/D2 domain of the LSU rRNA gene of yeast species isolated from corals and zoanths in sampling site S1 (●) and sampling site S2 (■) in the phylum Ascomycota, and their closely related yeast species retrieved from the GenBank databases. The tree was constructed with the maximum-likelihood method and the general time reversible (GTR) evolutionary model in the MEGA software version 7.0. Numbers at nodes indicate the bootstrap percentage (>50%) derived from 1000 datasets. *Schizosaccharomyces pombe* NRRL Y-12796<sup>T</sup> (JQ689077) was used as the outgroup. The scale bar indicates an evolutionary distance of 0.02  $K_{nuc}$ .



**Figure S2.** Phylogenetic relationship based on the sequence of the D1/D2 domain of the LSU rRNA gene of yeast species isolated from corals and zoanthids in sampling site S1 (●) and sampling site S2 (■) in the phylum Basidiomycota, and their closely related yeast species retrieved from the GenBank databases. The tree was constructed with the maximum-likelihood method and the GTR evolutionary model in the MEGA software version 7.0. Numbers at nodes indicate the bootstrap percentage (>50%) derived from 1000 datasets. *Moesziomyces antarcticus* JCM 10317<sup>T</sup> (JN940521) was used as the outgroup. The scale bar indicates an evolutionary distance of 0.05 K<sub>mc</sub>.

**Table S1.** Identification of yeast isolated from corals and zoanthids by analysis of the D1/D2 domain of the LSU rRNA gene and the ITS region.

Strain DMKU	Closest species (Accession no. of D1/D2; ITS)	D1/D2 domain			ITS region				Result of identification	
		Accession no.	No. of identity	No. of gap	No. of substitution	Accession no.	No. of identity	No. of gap		No. of substitution
<b>Coral samples</b>										
J7-1	<i>Papiliotrema laurentii</i> CBS139 <sup>T</sup> (AF075469)	LC431005	573/574	0	1	-	-	-	-	<i>P. laurentii</i>
JC7-2	<i>Rhodotorula diobovata</i> CBS6085 <sup>T</sup> (AF070421)	LC431006	532/533	0	1	-	-	-	-	<i>R. diobovata</i>
JC7-4	<i>Naganishia liquefaciens</i> CBS968 <sup>T</sup> (AF181515)	LC431007	555/556	0	1	-	-	-	-	<i>N. liquefaciens</i>
JC7-5	<i>Candida parapsilosis</i> CBS604 <sup>T</sup> (U45754)	LC431008	528/528	0	0	-	-	-	-	<i>C. parapsilosis</i>
JC8-1	<i>Papiliotrema laurentii</i> CBS139 <sup>T</sup> (AF075469)	LC431009	571/572	0	1	-	-	-	-	<i>P. laurentii</i>
JC9-1	<i>Cystobasidium calyptogenae</i> CBS9125 <sup>T</sup> (AB025996)	LC431010	565/566	0	1	-	-	-	-	<i>Cys. calyptogenae</i>
JC14-1	<i>Candida parapsilosis</i> CBS604 <sup>T</sup> (U45754)	LC431017	519/519	0	0	-	-	-	-	<i>C. parapsilosis</i>
JC15-1	<i>Rhodotorula mucilaginosa</i> CBS316 <sup>T</sup> (AF070432)	LC431018	543/544	0	1	-	-	-	-	<i>R. mucilaginosa</i>
J18-1	<i>Candida spencermartinsiae</i> CBS10894 <sup>T</sup> (FJ008044)	LC431020	505/505	0	0	-	-	-	-	<i>C. spencermartinsiae</i>
JC22-1	<i>Candida parapsilosis</i> CBS604 <sup>T</sup> (U45754)	LC497427	535/535	0	0	-	-	-	-	<i>C. parapsilosis</i>
JC24-1	<i>Sterigmatomyces halophilus</i> CBS4609 <sup>T</sup> (AF177416)	LC511611	585/592	6	1	-	-	-	-	<i>S. halophilus</i>
JC25-1	<i>Papiliotrema laurentii</i> CBS139 <sup>T</sup> (AF075469)	LC497428	606/607	0	1	-	-	-	-	<i>P. laurentii</i>
JC25-2	<i>Candida tropicalis</i> CBS94 <sup>T</sup> (U45749)	LC497429	529/529	0	0	-	-	-	-	<i>C. tropicalis</i>
J33-2	<i>Rhodotorula mucilaginosa</i> CBS316 <sup>T</sup> (AF070432)	LC497434	532/533	0	1	-	-	-	-	<i>R. mucilaginosa</i>
J33-3	<i>Papiliotrema laurentii</i> CBS139 <sup>T</sup> (AF075469)	LC497435	579/580	0	1	-	-	-	-	<i>P. laurentii</i>
JC33-1	<i>Rhodotorula diobovata</i> CBS6085 <sup>T</sup> (AF070421)	LC497436	549/550	0	1	-	-	-	-	<i>R. diobovata</i>
JC33-2	<i>Rhodospiridiobolus fluvialis</i> CBS6568 <sup>T</sup> (AF070422; NR077089)	LC511612	535/538	0	3	LC522501	593/598	0	5	<i>Rh. fluvialis</i>
JC33-4	<i>Cystobasidium calyptogenae</i> CBS9125 <sup>T</sup> (AB025996; AB025996)	LC511613	607/609	0	2	LC522502	557/562	1	4	<i>Cys. calyptogenae</i>
JC35-1	<i>Rhodotorula diobovata</i> CBS6085 <sup>T</sup> (AF070421)	LC497442	532/533	0	1	-	-	-	-	<i>R. diobovata</i>

Strain DMKU	Closest species (Accession no. of D1/D2; ITS)	D1/D2 domain				ITS region				Result of identification
		Accession no.	No. of identity	No. of gap	No. of substitution	Accession no.	No. of identity	No. of gap	No. of substitution	
JC35-2	<i>Cystobasidium calyptogenae</i> CBS9125 <sup>T</sup> (AB025996; AB025996)	LC511614	607/609	0	2	LC522503	559/564	1	4	<i>Cys. calyptogenae</i>
JC46-1	<i>Papiliotrema laurentii</i> CBS139 <sup>T</sup> (AF075469)	LC511615	562/563	0	1	-	-	-	-	<i>P. laurentii</i>
C322-1	<i>Filobasidium uniguttulatum</i> CBS1730 <sup>T</sup> (AF075468)	LC415308	564/564	0	0	-	-	-	-	<i>F. uniguttulatum</i>
3222-1	<i>Rhodotorula mucilaginosa</i> CBS316 <sup>T</sup> (AF070432)	LC415320	552/555	2	1	-	-	-	-	<i>R. mucilaginosa</i>
3222-2	<i>Naganishia liquefaciens</i> CBS968 <sup>T</sup> (AF181515)	LC511617	596/597	0	1	-	-	-	-	<i>N. liquefaciens</i>
3236-1	<i>Rhodotorula mucilaginosa</i> CBS316 <sup>T</sup> (AF070432)	LC511618	554/555	0	1	-	-	-	-	<i>R. mucilaginosa</i>
729-1	<i>Rhodotorula mucilaginosa</i> CBS316 <sup>T</sup> (AF070432)	LC430111	554/555	1	0	-	-	-	-	<i>R. mucilaginosa</i>
7231-1	<i>Rhodotorula mucilaginosa</i> CBS316 <sup>T</sup> (AF070432)	LC430581	550/550	0	0	-	-	-	-	<i>R. mucilaginosa</i>
7235-1	<i>Rhodotorula mucilaginosa</i> CBS316 <sup>T</sup> (AF070432)	LC430589	549/550	0	1	-	-	-	-	<i>R. mucilaginosa</i>
C7235-3	<i>Candida zeylanoides</i> CBS619 <sup>T</sup> (U45832)	LC430590	515/515	0	0	-	-	-	-	<i>C. zeylanoides</i>
C7235-4	<i>Vishniacozyma victoriae</i> CBS8685 <sup>T</sup> (AF363647)	LC430591	550/550	0	0	-	-	-	-	<i>V. victoriae</i>
7241-1	<i>Rhodotorula mucilaginosa</i> CBS316 <sup>T</sup> (AF070432)	LC430599	555/556	1	0	-	-	-	-	<i>R. mucilaginosa</i>
FC12-1	<i>Meyerozyma caribbica</i> CBS9966 <sup>T</sup> (AY187283)	LC511619	519/519	0	0	-	-	-	-	<i>M. caribbica</i>
FC12-2	<i>Rhodotorula mucilaginosa</i> CBS316 <sup>T</sup> (AF070432)	LC511620	533/534	0	1	-	-	-	-	<i>R. mucilaginosa</i>
FC12-3	<i>Candida parapsilosis</i> CBS604 <sup>T</sup> (U45754)	LC511621	524/524	0	0	-	-	-	-	<i>C. parapsilosis</i>
FC12-4	<i>Candida tropicalis</i> CBS94 <sup>T</sup> (U45749)	LC511622	523/523	0	0	-	-	-	-	<i>C. tropicalis</i>
J37-1	<i>Rhodotorula toruloides</i> CBS349 <sup>T</sup> (AF070426; AF444489)	LC497437	583/588	0	5	LC522504	579/588	3	6	Potential new species closest to <i>R. toruloides</i>
<b>Zoanthid samples</b>										
319-1	<i>Meyerozyma guilliermondii</i> CBS2030 <sup>T</sup> (U45709)	LC415303	542/545	1	2	-	-	-	-	<i>M. guilliermondii</i>
319-2	<i>Candida tropicalis</i> CBS94 <sup>T</sup> (U45749)	LC415304	544/545	1	0	-	-	-	-	<i>C. tropicalis</i>

Strain DMKU	Closest species (Accession no. of D1/D2; ITS)	D1/D2 domain			ITS region				Result of identification	
		Accession no.	No. of identity	No. of gap	No. of substitution	Accession no.	No. of identity	No. of gap		No. of substitution
C319-1	<i>Wickerhamomyces anomalus</i> NRRL_Y-366 <sup>T</sup> (EF550341)	LC415305	553/556	2	1	-	-	-	-	<i>W. anomalus</i>
C319-2	<i>Candida metapsilosis</i> CBS10907 <sup>T</sup> (KY106577)	LC415306	552/554	1	1	-	-	-	-	<i>C. metapsilosis</i>
J29-5	<i>Meyerozyma guilliermondii</i> CBS2030 <sup>T</sup> (U45709)	LC497430	532/534	0	2	-	-	-	-	<i>M. guilliermondii</i>
JC29-2	<i>Kodamaea ohmeri</i> CBS5367 <sup>T</sup> (U45702)	LC497431	442/442	0	0	-	-	-	-	<i>K. ohmeri</i>
JC29-6	<i>Papiliotrema laurentii</i> CBS139 <sup>T</sup> (AF075469)	LC497432	573/574	0	1	-	-	-	-	<i>P. laurentii</i>
JC29-7	<i>Meyerozyma caribbica</i> CBS9966 <sup>T</sup> (AY187283)	LC497433	519/519	0	0	-	-	-	-	<i>M. caribbica</i>
JC34-1	<i>Papiliotrema laurentii</i> CBS139 <sup>T</sup> (AF075469)	LC497439	576/577	0	1	-	-	-	-	<i>P. laurentii</i>
JC34-2	<i>Rhodotorula diobovata</i> CBS6085 <sup>T</sup> (AF070421)	LC497440	532/533	0	1	-	-	-	-	<i>R. diobovata</i>
JC34-5	<i>Rhodospiridiobolus fluvialis</i> CBS6568 <sup>T</sup> (AF070422; NR077089)	LC511616	546/549	0	3	LC522505	588/593	0	5	<i>Rh. fluvialis</i>
JC34-7	<i>Rhodotorula mucilaginosa</i> CBS316 <sup>T</sup> (AF070432)	LC497441	533/534	0	1	-	-	-	-	<i>R. mucilaginosa</i>
F9-1	<i>Rhodotorula mucilaginosa</i> CBS316 <sup>T</sup> (AF070432)	LC511623	533/534	0	1	-	-	-	-	<i>R. mucilaginosa</i>
FC9-1	<i>Rhodotorula toruloides</i> CBS349 <sup>T</sup> (AF070426)	LC511624	532/532	0	0	-	-	-	-	<i>R. toruloides</i>