

Table S1. Sir2 and Hst1 proteins used in phylogeny

Protein name	Accession Number
<i>A. nidulans</i> hst1	C8V3W5
<i>C. albicans</i> Hst1	XP_723447
<i>C. albicans</i> Hst2	KGQ81523
<i>C. albicans</i> Sir2	XP_719442
<i>C. dubliniensis</i> Hst1	XP_002417498
<i>C. dubliniensis</i> Sir2	XP_002418099
<i>C. lusitaniae</i> Hst1	XP_002617818
<i>C. orthopsilosis</i> Hst1	XP_003866221
<i>C. parapsilosis</i> Hst1	CCE41840
<i>C. tenuis</i> Hst1	XP_006688850
<i>C. tropicalis</i> Hst1	XP_002548945
<i>C. tropicalis</i> Sir2	XP_002546917
<i>D. hansenii</i> Hst1	XP_459895
<i>G. candidum</i> Sir2	CDO53759
<i>K. lactis</i> Sir2	XP_455739
<i>K. pastoris</i> Sir2	XP_002490032
<i>L. elongisporus</i> Hst1	XP_001527944
<i>M. guilliermondii</i> Hst1	EDK39227
<i>M. guilliermondii</i> Sir2	EDK40860
<i>N. crassa</i> Nst-1	XP_960372
<i>R. microsporus</i> Sir2	CEI89652
<i>S. cerevisiae</i> Hst1	NP_014573
<i>S. cerevisiae</i> Hst2	NP_015310
<i>S. cerevisiae</i> Sir2	NP_010242
<i>S. coipomoensis</i> Hst1	KX533525
<i>S. coipomoensis</i> Sir2	KX533530
<i>S. passalidarum</i> Hst1	XP_007375727
<i>S. passalidarum</i> Sir2	XP_007375045
<i>S. pombe</i> Sir2	NP_001018840
<i>S. spartinae</i> Hst1	KX533537
<i>S. spartinae</i> Sir2	KX533542
<i>S. stipitis</i> Hst1	XP_001387128
<i>S. stipitis</i> Sir2	XP_001382290
<i>Y. lipolytica</i> Sir2	XP_505293