

S12 Table. Accession numbers for all sequences obtained and used in this work.

Strain	Gene Sequence	Accession number / Scaffold (coordinates)
<i>Phaffia rhodozyma</i> KBP 2604	STE3-1 (partial)	KU315740
<i>Phaffia rhodozyma</i> ATCC 24261	STE3-1 (partial)	KU315745
<i>Phaffia rhodozyma</i> NRRL Y-17434	STE3-1 (partial)	KU315746
<i>Phaffia rhodozyma</i> GY13L04	STE3-1 (partial)	KU315744
<i>Phaffia rhodozyma</i> CRUB 1151	STE3-1 (partial)	KU315742
<i>Phaffia rhodozyma</i> CRUB 0853	STE3-1 (partial)	KU315743
<i>Phaffia rhodozyma</i> CRUB 1490	STE3-1 (partial)	KU315741
<i>Phaffia rhodozyma</i> ATCC 24229	STE3-1 (partial)	KU315749
<i>Phaffia rhodozyma</i> ATCC 24201	STE3-1 (partial)	KU315750
<i>Phaffia rhodozyma</i> ZP 922	STE3-1 (partial)	KU315747
<i>Phaffia rhodozyma</i> ZP 869	STE3-1 (partial)	KU315748
<i>Phaffia rhodozyma</i> CBS 6938	STE3-1	CED85384.1
<i>Phaffia rhodozyma</i> CBS 7918	STE3-1	PRJNA306035/LSVH01000226.1 (11858..13318)
<i>Phaffia rhodozyma</i> CRUB 1149	STE3-1	PRJNA307837/ NODE_186 (11928..13388)
<i>Phaffia rhodozyma</i> KBP 2604	STE3-2 (partial)	KU315756
<i>Phaffia rhodozyma</i> ATCC 24261	STE3-2 (partial)	KU315759
<i>Phaffia rhodozyma</i> NRRL Y-17434	STE3-2 (partial)	KU315754
<i>Phaffia rhodozyma</i> GY13L04	STE3-2 (partial)	KU315753
<i>Phaffia rhodozyma</i> CRUB 1151	STE3-2 (partial)	KU315755
<i>Phaffia rhodozyma</i> CRUB 0853	STE3-2 (partial)	KU315757
<i>Phaffia rhodozyma</i> CRUB 1490	STE3-2 (partial)	KU315760
<i>Phaffia rhodozyma</i> ATCC 24229	STE3-2 (partial)	KU315758
<i>Phaffia rhodozyma</i> ATCC 24201	STE3-2 (partial)	KU315761
<i>Phaffia rhodozyma</i> ZP 922	STE3-2 (partial)	KU315752
<i>Phaffia rhodozyma</i> ZP 869	STE3-2 (partial)	KU315751
<i>Phaffia rhodozyma</i> CBS 6938	STE3-2	CED85379.1
<i>Phaffia rhodozyma</i> CBS 7918	STE3-2	PRJNA306035/LSVH01000253.1 (7004..8395)
<i>Phaffia rhodozyma</i> CRUB 1149	STE3-2	PRJNA307837/ NODE_198(2416..3807)
<i>Phaffia rhodozyma</i> KBP 2604	HD1 (partial)	KU315766
<i>Phaffia rhodozyma</i> ATCC 24261	HD1 (partial)	KU315764
<i>Phaffia rhodozyma</i> NRRL Y-17434	HD1 (partial)	KU315767
<i>Phaffia rhodozyma</i> ZP 922	HD1	KU315769
<i>Phaffia rhodozyma</i> ZP 869	HD1	KU315768
<i>Phaffia rhodozyma</i> GY13L04	HD1	KU315765
<i>Phaffia rhodozyma</i> CRUB 1151	HD1	KU315770
<i>Phaffia rhodozyma</i> ATCC 24229	HD1	KU315763
<i>Phaffia rhodozyma</i> ATCC 24201	HD1	KU315762
<i>Phaffia rhodozyma</i> CBS 6938	HD1	CDZ96688.1
<i>Phaffia rhodozyma</i> CBS 7918	HD1	PRJNA306035/LSVH01000060.1 (57836..59696)
<i>Phaffia rhodozyma</i> CRUB 1149	HD1	PRJNA307837/ NODE_63 (58233..58452)
<i>Phaffia rhodozyma</i> ZP 922	HD2	KU315773
<i>Phaffia rhodozyma</i> ZP 869	HD2	KU315772
<i>Phaffia rhodozyma</i> GY13L04	HD2	KU315775
<i>Phaffia rhodozyma</i> CRUB 1490	HD2	KU315780
<i>Phaffia rhodozyma</i> CRUB 0853	HD2	KU315779
<i>Phaffia rhodozyma</i> ATCC 24229	HD2	KU315778
<i>Phaffia rhodozyma</i> ATCC 24201	HD2	KU315777
<i>Phaffia rhodozyma</i> KBP 2604	HD2	KU315776
<i>Phaffia rhodozyma</i> ATCC 24261	HD2	KU315771
<i>Phaffia rhodozyma</i> NRRL Y-17434	HD2	KU315774
<i>Phaffia rhodozyma</i> CBS 6938	HD2	CDZ96689.1
<i>Phaffia rhodozyma</i> CBS 7918	HD2	PRJNA306035/LSVH01000060.1 (55622..57058)
<i>Phaffia rhodozyma</i> CRUB 1149	HD2	PRJNA307837/ NODE_63 (55665..56306)
<i>C. neoformans</i> var <i>neoformans</i> JEC21	STE3	XP_570116.1
<i>C. neoformans</i> var <i>neoformans</i> JEC20	STE3	AAN75624.1
<i>C. neoformans</i> var <i>grubii</i> H99	STE3	XP_012049557.1
<i>C. neoformans</i> var <i>grubii</i> 125.91	STE3	AAN75156.1
<i>C. gattii</i> WM276	STE3	XP_003196044.1
<i>C. gattii</i> E566	STE3	AAV28758.1
<i>C. flavescens</i> CF05-CBS8359	STE3	CDR19326.1
<i>C. flavescens</i> CF01-CBS4918	STE3	CDR19282.1
<i>K. magrovensis</i> CBS8507	STE3	CCM73226.1
<i>K. magrovensis</i> CBS10435	STE3	ASQD01000019.1
<i>K. heveanensis</i> CBS569	STE3	ACZ81463.1
<i>K. heveanensis</i> BCC8398	STE3	ASQB01000005
<i>Dioszegia cryoxerica</i>	STE3	ANT03-071JGI-262391
<i>Dioszegia cryoxerica</i>	STE3	ANT03-071JGI-351885
<i>Tremella fuciformis</i> tr26	STE3	LBGW01000351
<i>T. mesenterica</i> ATCC24925	STE3	ADO17672.1
<i>Sporidiobolus salmonicolor</i> CBS490	STE3	ADM24775.1
<i>Sporidiobolus salmonicolor</i> CBS483	STE3	ADM24772.1
<i>Leucosporidium scottii</i> CBS5931	STE3	CRX79175.1
<i>Leucosporidium scottii</i> CBS5930	STE3	CRX79175.1
<i>Saccharomyces cerevisiae</i> S288c	STE3	NP_012743.1
<i>Phaffia rhodozyma</i> CBS 7918	MFA1	PRJNA306035/LSVH01000226 (14268..14399)
<i>Phaffia rhodozyma</i> CBS 6938	MFA1	PRJEB6925/LN483332.1 (1417935..1418060)
<i>Phaffia rhodozyma</i> CBS 7918	MFA2	PRJNA306035/LSVH01000253 (9521..9646)
<i>Phaffia rhodozyma</i> CBS 6938	MFA2	PRJEB6925/LN483332.1 (1423341..1423472)