

Table S2 Pair-wise nucleotide similarities among *MAT* idiomorphs of different isolates and species.

a. Percentage nucleotide similarity among *MAT1-1* idiomorphs

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	L lung UM1434																
2	Gh CBS398.77	77.6															
3	Gc M6	76.4	75.4														
4	Gc M11	76.5	75.3	99.8													
5	Gc SS278	76.4	75.2	99.9	99.8												
6	Gc BW28	76.4	75.3	99.9	99.8	100											
7	Gc B101	76.4	75.3	99.9	99.8	100	100										
8	Gc ATCC 18086	76.2	75.1	98.9	98.8	99	99	99									
9	Lw CMW 2096	76.3	74.9	98.1	98.1	98.2	98.7	98.7	98.5								
10	Lw CMW 2095	76.4	75.1	98.6	98.6	98.7	98.7	98.7	98.5	99.9							
11	Ga OA18_A27	78.4	76.6	86.8	86.8	86.9	97.1	97.1	97.2	86.8	97.1						
12	Ga AU98-Pr2	73.8	72.7	87.5	87.4	87.5	96.1	96.1	95.8	87.5	96.1	99.9					
13	L lo SS88	76.1	74.8	97.7	97.7	97.8	97.9	97.9	97.7	97.7	98	96.2	95.1				
14	L lo SL-KW1436	76	74.7	97.8	97.8	97.9	97.9	97.9	97.6	97.8	97.9	96.6	95.4	100			
15	L lo HV18	76.1	74.9	97.9	97.8	97.9	97.9	97.9	97.7	97.9	98	96.7	95.4	99.9	99.9		
16	Lt SS403	76.5	75.2	98.6	98.6	98.7	98.9	98.9	98.6	98.8	99	96.8	96	97.9	98	98.1	
17	Gr CMW668	76.7	75.2	98.2	98.2	98.3	98.3	98.3	97.9	98.1	98.2	97.1	95.5	97.8	97.7	97.8	98.4

b. Percentage nucleotide similarity among *MAT1-2* idiomorphs

	1	2	3	4	5	6	7	8	9	10	11	12
1 Llun UAMH9584												
2 Gh CMW185	71.9											
3 Gc SI-KW1407	74	72.9										
4 Gc SS274	74	72.9	100									
5 Gc B13	74	72.9	99.9	99.9								
6 Ga SS419	72.8	71.4	94.1	92.5	92.5							
7 Ga SS 471	73.3	72.1	94.3	94.2	94.2	99.8						
8 Llo SS86	73.6	72.5	97.9	97.1	97.1	92.2	93.6					
9 Llo HV7	73.7	72.5	98	97.9	97.8	93.4	93.6	99.9				
10 Lt SS394	74.1	72.9	99.1	98.5	98.5	92.9	94.5	97.6	98.2			
11 Lt T26	74	72.8	98.9	98.9	98.8	94.2	94.4	98.1	98.1	99.8		
12 Lt T27	71.1	69.9	94.2	91.9	91.8	97	98.4	91.5	93.4	92.4	94.2	