

**Table S3. List of ORFs flanking the candidate centromere regions in *C. amyloletus*, *C. wingfieldii* and *C. floricola* and predict centromere length.**

<i>C. amyloletus</i> CBS6039							
# CEN	# Chr.	# Scaffold	# CEN-flanking ORFs		CEN localization (coordinates in bp)		Size (bp)
1	1	NW_017566887.1	L202_00527	L202_00532	1,261,929	1,292,020	30,091
2	2	NW_017566888.1	L202_01330	L202_01332	981,300	1,003,798	22,498
3	3	NW_017566889.1	L202_02287	L202_02295	1,037,293	1,069,522	32,229
4	4	NW_017566890.1	L202_02687	L202_02698	229,237	277,616	48,379
5	5	NW_017566891.1	L202_03401	L202_03407	332,957	371,191	38,234
6	6	NW_017566892.1	L202_04254	L202_04263	788,877	828,759	39,882
7	7	NW_017566893.1	L202_05012	L202_05014	1,123,410	1,157,926	34,516
8	8	NW_017566894.1	L202_05536	L202_05544	897,482	919,853	22,371
9	9	NW_017566895.1	L202_06076	L202_06084	822,473	859,020	36,547
10	10	NW_017566896.1	L202_06607	L202_06614	866,479	897,364	30,885
11	11	NW_017566897.1	L202_06993	L202_07006	612,933	649,121	36,188
12	12	NW_017566898.1	L202_07424	L202_07432	468,906	513,539	44,633
13	13	NW_017566899.1	L202_07946	L202_07951	603,530	642,666	39,136
14	14	NW_017566900.1	L202_08367	L202_08371	570,175	602,631	32,456

**Table S3.** continued.

<i>C. floricola</i> DSM27421							
# CEN	# Chr.	# Contig	# CEN-flanking ORFs		CEN localization (coordinates in bp)		Size (bp)
1	1	1	00512	00518	1,243,490	1,327,661	84,171
2	2	2	01313	01324	971,831	1,061,474	89,643
3	3	3	02296	02303	1,110,181	1,185,853	75,672
4	4	4	02887	02913	863,053	984,590	121,537
5	5	5	03711	03720	1,244,601	1,295,460	50,859
6	6	6	04370	04383	1,286,065	1,373,290	87,225
7 <sup>a</sup>	7	7 (7q)	04896	(end)	1,079,404	1,135,491	65,158
		8 (7p)	(start)	04915	1	9072	
8	8	9	05443	05447	907,929	973,372	65,443
9	9	10	05984	05989	860,039	969,413	109,374
10	10	11	06418	06435	722,478	794,183	71,705
11	11	12	06982	06991	883,285	944,986	61,701
12	12	13	07328	07335	510,925	558,398	47,473
13	13	14	07756	07763	372,340	436,538	64,198
14	14	15	08253	08259	574,416	647,386	72,970

<sup>a</sup> Chromosome 7 of *C. floricola* is broken at the centromere with 7q and 7p (i.e. contigs 7 and 8), representing arms of the same chromosome. The centromere length is therefore underestimated and was not used for centromere length comparisons.

**Table S3.** continued.

<i>C. wingfieldii</i> CBS7118							
# CEN	# Chr.	# Contig	# CEN-flanking ORFs		CEN localization (coordinates in bp)		Size (bp)
1	1	1	00392	00403	994,405	1,054,222	59,817
2	2	2	01417	01433	1,230,042	1,306,820	76,778
3	3	3	02231	02250	1,068,533	1,149,451	80,918
4	4	4	02995	03011	1,292,624	1,376,047	83,423
5	5	5	03231	03244	319,537	398,796	79,259
6	6	6	04066	04079	777,904	876,114	98,210
7	7	7	04788	04808	1,099,696	1,161,731	62,035
8	8	8	05314	05333	908,230	977,564	69,334
9	9	9	05655	05674	295,446	399,448	104,002
10	10	10	06158	06165	320,484	380,146	59,662
11	11	11	06750	06766	637,423	727,326	89,903
12	12	12	07149	07167	477,976	534,376	56,400
13	13	13	07693	07705	619,834	699,709	79,875
14	14	14	07977	07985	314,173	376,411	62,238