

Table S1. The relative position of lost introns in *Neurospora*. The relative position was calculated from 5' to 3' within a gene. tetra_a is short for *N. tetrasperma a*, tetraA for *N. tetrasperma A*, and crassa for *N. crassa*.

NCU locus number	Number of introns in the gene	Relative position of lost introns					
NCU01250T0	1	tetra_a	1	tetraA	1		
NCU01154T0	3	tetra_a	2				
NCU01679T0	4	crassa	2				
NCU06067T0	3	tetra_a	3	tetraA	3		
NCU06109T0	3	tetra_a	2	tetraA	2		
NCU07459T0	4	tetraA	1				
NCU01856T0	1	tetra_a	1				
NCU01158T0	1	crassa	1	tetraA	1		
NCU04396T0	4	tetra_a	4	tetraA	4		
NCU02165T0	1	crassa	1				
NCU01381T0	2	crassa	1				
NCU02921T0	1	tetra_a	1				
NCU07420T0	4	tetra_a	2				
NCU08035T0	4	tetra_a	2				
NCU04781T0	4	tetra_a	2	tetraA	2		
NCU02316T0	1	tetra_a	1	tetraA	1		
NCU07898T0	5	crassa	1				
NCU05608T0	3	tetra_a	1				
NCU11838T0	2	tetra_a	1				
NCU00278T0	1	tetra_a	1				
NCU00772T0	2	tetraA	2				
NCU05564T0	1	tetra_a	1				
NCU07846T0	5	crassa	3	tetra_a	3	tetraA	2
NCU01873T0	2	crassa	2				
NCU00945T0	1	tetra_a	1	tetraA	1		

NCU00831T0	2	tetra_a	1				
NCU00480T0	4	crassa	4	tetra_a	4		
NCU00537T0	1	tetra_a	1				
NCU10675T0	4	crassa	1	tetra_a	1		
NCU09128T0	6	crassa	4				
NCU01449T0	8	tetra_a	5	tetraA	5		
NCU02941T0	2	tetra_a	1				
NCU10101T0	5	crassa	3				
NCU06659T0	3	tetra_a	1	tetraA	1		
NCU04167T0	3	tetra_a	2	tetraA	2		
NCU05862T0	4	tetra_a	3				
NCU10776T0	2	tetra_a	1	tetraA	1		
NCU03402T0	1	crassa	1				
NCU09789T0	6	crassa	2				
NCU09686T0	1	tetra_a	1	tetraA	1		
NCU05925T0	5	crassa	1				
NCU06534T0	1	tetra_a	1	tetraA	1		
NCU06631T0	5	crassa	4	tetra_a	5	tetraA	4
NCU08925T0	1	tetra_a	1	tetraA	1		
NCU00870T0	2	tetra_a	1				
NCU09824T0	1	crassa	1				
NCU09602T0	4	tetra_a	3 4	tetraA	3 4		
NCU07618T0	2	crassa	2				
NCU09683T0	1	crassa	1				
NCU06756T0	2	crassa	1				
NCU01768T0	5	crassa	4				
NCU01654T0	2	tetra_a	1	tetraA	1		
NCU06973T0	1	tetraA	1				

NCU07411T0	3	tetra_a	1 2 3			
NCU01207T0	5	tetra_a		1		
NCU06174T0	1	crassa		1		
NCU08716T0	5	crassa		4		
NCU01098T0	2	tetra_a	1 2			
NCU09716T0	1	crassa		1		
NCU05199T0	2	tetra_a		2	tetraA	2

Table S2. List of resequenced strains of *Neurospora tetrasperma*

Study id	Strain id		Sampling location	Mating type	Lineage	Filtered Reads Total Length (Mbp)	Median depth	Reads mapped %
	Heterokaryon id	Homokaryon id						
<i>N. tetrasperma</i> strains								
2508	P581	FGSC 2508	Hawaii	A	L6	NA	NA	NA
2509	P581	FGSC 2509	Hawaii	a	L6	NA	NA	NA
7585	RLM131	FGSC 7585	Coba, Mexico	a	L4	1.2	27	85%
7586	RLM131	FGSC 7586	Coba, Mexico	a	L4	1.173	27	85%
9033	P4492	FGSC 9033	Franklin, Louisiana, USA	A	L1	1.95	48	91%
9034	P4492	FGSC 9034	Franklin, Louisiana, USA	a	L1	1.207	28	89%
965a	965	FGSC 10751	Liberia	a	L9	1.102	27	88%
965 A	965	FGSC 10752	Liberia	A	L9	1.95	46	90%
CJ01	UK26	FGSC 10703	Surrey, England	A	L10	1.266	30	89%
CJ02	UK26	FGSC 10704	Surrey, England	a	L10	1.25	30	91%
CJ03	UK12	FGSC 10705	Surrey, England	A	L10	1.29	30	86%
CJ04	UK12	FGSC 10706	Surrey, England	a	L10	1.29	26	84%
CJ05	UK33	FGSC 10707	Surrey, England	A	L10	1.29	28	85%
CJ06	UK33	FGSC 10708	Surrey, England	a	L10	1.29	29	87%
CJ07	UK43	FGSC 10709	Surrey, England	A	L10	1.29	28	83%
CJ08	UK43	FGSC 10710	Surrey, England	a	L10	1.29	30	89%
CJ09	UK23	FGSC 10711	Surrey, England	A	L10	1.266	29	85%
CJ10	UK23	FGSC 10712	Surrey, England	a	L10	1.266	29	89%
CJ11	UK1	FGSC 10713	Surrey, England	A	L10	1.266	29	86%
CJ12	UK1	FGSC 10714	Surrey, England	a	L10	1.285	29	89%
CJ13	UK41	FGSC 10715	Surrey, England	A	L10	1.266	28	85%
CJ14	UK41	FGSC 10716	Surrey, England	a	L10	1.266	30	90%
CJ15	UK54	FGSC 10717	Surrey, England	A	L10	1.266	28	84%
CJ16	UK54	FGSC 10718	Surrey, England	a	L10	1.266	29	87%
CJ17	UK77	FGSC 10719	Surrey, England	A	L10	1.266	30	87%
CJ18	UK77	FGSC 10720	Surrey, England	a	L10	1.266	30	90%
CJ19	UK65	FGSC 10721	Surrey, England	A	L10	1.266	30	85%
CJ20	UK65	FGSC 10722	Surrey, England	a	L10	1.266	30	89%
CJ21	UK86	FGSC 10723	Surrey, England	A	L10	1.266	29	85%
CJ22	UK86	FGSC 10724	Surrey, England	a	L10	1.266	30	89%
CJ23	UK100	FGSC 10725	Surrey, England	A	L10	1.266	31	88%
CJ24	UK100	FGSC 10726	Surrey, England	a	L10	1.266	30	88%
CJ25	P3358	FGSC 10727	Pirongia, NZ	A	L5	1.25	30	89%
CJ26	P3358	FGSC 10728	Pirongia, NZ	a	L5	1.269	32	95%
CJ27	P2252	FGSC 10729	Dargaville, NZ	A	L5	1.269	31	90%
CJ28	P2252	FGSC 10730	Dargaville, NZ	a	L5	1.269	31	94%
CJ29	P2331	FGSC 10731	Te Hana, NZ	A	L5	1.269	31	91%
CJ30	P2331	FGSC 10732	Te Hana, NZ	a	L5	1.269	32	95%
CJ31	P3359	FGSC 10733	Pirongia, NZ	A	L5	1.269	30	89%
CJ32	P3359	FGSC 10734	Pirongia, NZ	a	L5	1.269	31	93%
CJ33	P2317	FGSC 10735	Brookby, NZ	A	L5	1.25	30	90%
CJ34	P2317	FGSC 10736	Brookby, NZ	a	L5	1.25	32	95%
CJ35	P2275	FGSC 10737	Herekino, NZ	a	L5	1.25	31	93%
CJ36	P2275	FGSC 10738	Herekino, NZ	a	L5	1.29	32	95%
CJ37	P2284	FGSC 10739	Omapere, NZ	A	L5	1.29	31	89%
CJ38	P2284	FGSC 10740	Omapere, NZ	a	L5	1.29	32	94%
CJ39	P2253	FGSC 10741	Dargaville, NZ	A	L5	1.25	30	89%
CJ40	P2253	FGSC 10742	Dargaville, NZ	a	L5	1.25	31	95%
CJ41	P2299	FGSC 10743	Waitakere, NZ	A	L5	1.25	32	91%
CJ42	P2299	FGSC 10744	Waitakere, NZ	a	L5	1.25	31	94%
CJ43	P2273	FGSC 10745	Herekino, NZ	A	L5	1.25	33	92%
CJ44	P2273	FGSC 10746	Herekino, NZ	a	L5	1.25	31	95%
CJ45	P2356	P4383	Ahipara, NZ	A	L5	1.29	31	90%
CJ46	P2356	P4384	Ahipara, NZ	a	L5	1.29	29	92%
CJ47	P2357	FGSC 10747	Ahipara, NZ	A	L5	1.29	28	88%
CJ48	P2357	FGSC 10748	Ahipara, NZ	A	L5	1.435	26	85%
CJ49	P2361	P4371	Ahipara, NZ	A	L5	1.357	28	85%
CJ50	P2361	P4372	Ahipara, NZ	a	L5	1.485	29	91%
CJ51	P2294	FGSC 10749	Mt. Albert, NZ	A	L5	1.32	33	91%
CJ52	P2303	FGSC 10750	Cornwallis Beach, NZ	a	L5	1.334	32	94%
CJ55	P4495-1A	FGSC 9024	Franklin, Louisiana, USA	A	L1	1.435	36	89%
CJ56	P4495-3a	FGSC 9025	Franklin, Louisiana, USA	a	L1	1.357	34	89%
CJ57	P4488-4A	FGSC 9026	Franklin, Louisiana, USA	A	L8	1.485	37	88%
CJ58	P4488-3a	FGSC 9027	Franklin, Louisiana, USA	a	L8	1.32	32	87%
CJ59	P4466-5A	FGSC 9028	Franklin, Louisiana, USA	A	L8	1.334	33	88%
CJ60	P4466-6a	FGSC 9029	Franklin, Louisiana, USA	a	L8	1.508	37	88%
CJ61	P4460-2A	FGSC 9030	Franklin, Louisiana, USA	A	L8	1.328	31	86%
CJ62	P4460-3a	FGSC 9031	Franklin, Louisiana, USA	a	L8	1.413	33	87%
CJ63	J3-2A	FGSC 9035	Franklin, Louisiana, USA	A	L8	1.49	36	86%
CJ64	J3-5a	FGSC 9036	Franklin, Louisiana, USA	a	L8	1.429	33	85%
CJ65	P4461-1A	FGSC 9037	Franklin, Louisiana, USA	A	L1	1.556	38	89%
CJ66	P4461-2a	FGSC 9038	Franklin, Louisiana, USA	a	L1	1.35	33	89%
CJ67	J14-7A	FGSC 9039	Franklin, Louisiana, USA	A	L8	1.543	37	87%
CJ68	J14-2a	FGSC 9040	Franklin, Louisiana, USA	a	L8	1.328	32	87%
CJ69	P4477-16A	FGSC 9042	Franklin, Louisiana, USA	A	L7	1.555	37	86%
CJ70	P4477-6a	FGSC 9041	Franklin, Louisiana, USA	a	L7	1.489	36	85%
CJ71	J8 A	FGSC 9043	Franklin, Louisiana, USA	A	L8	1.459	36	88%
CJ72	J8 a	FGSC 9044	Franklin, Louisiana, USA	a	L8	1.55	37	87%
CJ73	J2 A	FGSC 9045	Franklin, Louisiana, USA	A	L7	1.32	31	86%
CJ74	J2 a	FGSC 9046	Franklin, Louisiana, USA	a	L7	1.474	34	85%
CJ75	J9 A	FGSC 9047	Franklin, Louisiana, USA	A	L8	1.41	33	85%
CJ76	J9 a	FGSC 9048	Franklin, Louisiana, USA	a	L8	1.448	33	87%
CJ77	J13 A	FGSC 9049	Franklin, Louisiana, USA	A	L8	1.352	34	86%
CJ78	J13 a	FGSC 9050	Franklin, Louisiana, USA	a	L8	1.414	36	90%
CJ79	P4379	FGSC 9051	Welsh, Louisiana, USA	A	L8	1.413	35	88%
CJ80	P4380	FGSC 9052	Welsh, Louisiana, USA	a	L8	1.367	34	89%
CJ81	P4381	FGSC 9053	Welsh, Louisiana, USA	A	L7	1.389	30	82%
CJ82	P4382	FGSC 9054	Welsh, Louisiana, USA	a	L7	1.323	30	83%
CJ83	P470	FGSC 2501	Empire, Louisiana, USA	A	L7	1.321	33	87%
CJ84	unknown	FGSC 2502	Empire, Louisiana, USA	a	L7	1.51	35	84%
CJ85	P505A	FGSC 2503	Welsh, Louisiana, USA	A	L8	1.46	36	87%
CJ86	P505a	FGSC 2504	Welsh, Louisiana, USA	a	L8	1.454	34	87%
CJ87	P0654	FGSC 2505	Perkins, Louisiana, USA	A	L8	1.43	35	87%
CJ88	P0655	FGSC 2506	Perkins, Louisiana, USA	a	L8	1.377	33	86%