Table S2. *AP2/ERF* family genes identified in *L. cylindrica.*

Gene name	Gene ID	Position	Coding sequence length/bp	Protein length/aa	Relative molecular weight/kDa	Theoretical Isoelectric Point (pI)	Group	Subcellular localization
LcERF-1	Lcy01g000360	Chr01: 472622-475389(-)	1149	382	42.47	5.41	DREB subfamily	Nucleus
LcAP2/ERF-2	Lcy01g000680	Chr01: 711988-715235(-)	1593	530	58.30	5.71	AP2 subfamily	Nucleus
LcERF-3	Lcy01g003220	Chr01: 3841155-3842212(+)	687	228	25.73	5.03	DREB subfamily	Nucleus
LcERF-4	Lcy01g004190	Chr01: 5263167-5264725(-)	1281	426	46.31	8.50	ERF subfamily	Nucleus
LcERF-5	Lcy01g008090	Chr01: 16725476-16725790(-)	315	105	12.09	9.46	DREB subfamily	Cytoplasm
LcERF-6	Lcy01g013110	Chr01: 34353066-34355030(+)	1125	374	40.66	5.35	ERF subfamily	Nucleus
LcERF-7	Lcy01g014750	Chr01: 36156351-36157594(-)	1065	354	38.92	6.12	ERF subfamily	Nucleus
LcERF-8	Lcy01g015420	Chr01: 36934468-36935099	555	184	20.85	7.75	ERF subfamily	Chloroplast
LcERF-9	Lcy01g015430	Chr01: 36940098-36940689(+)	510	169	18.89	9.12	ERF subfamily	Mitochondrial
LcERF-10	Lcy01g018150	Chr01: 39704853-39706371(-)	435	144	16.51	9.47	ERF subfamily	Nucleus
LcAP2/ERF-11	Lcy01g018710	Chr01: 40210451-40214493(+)	2250	749	81.42	6.16	AP2 subfamily	Nucleus
LcERF-12	Lcy01g019510	Chr01: 40993317-40994003(-)	642	213	24.13	4.91	ERF subfamily	Chloroplast
LcERF-13	Lcy01g020340	Chr01: 41722108-41724204(+)	1026	341	38.94	9.51	AP2 subfamily	Nucleus
LcERF-14	Lcy02g001050	Chr02: 1423701-1424516(+)	816	271	29.78	6.47	ERF subfamily	Nucleus
LcERF-15	Lcy02g003100	Chr02: 4139400-4140868(+)	906	301	34.15	5.33	DREB subfamily	Nucleus
LcERF-16	Lcy02g005000	Chr02: 6564436-6565809(+)	555	184	20.64	8.75	ERF subfamily	Mitochondrial
LcERF-17	Lcy02g005610	Chr02: 7328070-7329058(+)	582	193	22.04	9.27	ERF subfamily	Chloroplast
LcERF-18	Lcy02g006300	Chr02: 8210066-8210976(-)	585	194	21.43	4.76	ERF subfamily	Nucleus
LcERF-19	Lcy02g011400	Chr02: 34243134-34243475(-)	306	101	11.15	6.57	DREB subfamily	Cytoplasm
LcERF-20	Lcy02g011430	Chr02: 34485671-34486769(+)	723	240	26.11	8.94	DREB subfamily	Nucleus
LcERF-21	Lcy02g011440	Chr02: 34496318-34497196(+)	519	172	19.85	5.99	DREB subfamily	Nucleus
LcERF-22	Lcy02g012030	Chr02: 36478559-36480695(+)	828	275	29.74	6.95	ERF subfamily	Chloroplast
LcERF-23	Lcy02g013060	Chr02: 38541940-38543270(+)	903	300	32.79	6.65	ERF subfamily	Chloroplast
LcERF-24	Lcy02g013770	Chr02: 39607717-39608157(-)	951	316	35.22	8.87	Soloist	Cytoplasm
LcERF-25	Lcy02g014290	Chr02: 40284258-40285827(+)	819	272	28.69	4.86	ERF subfamily	Nucleus
LcERF-26	Lcy02g015720	Chr02: 42551575-42552520(+)	774	257	27.79	8.41	DREB subfamily	Nucleus
LcERF-27	Lcy02g017210	Chr02: 44383012-44387799(+)	684	227	26.09	8.95	Soloist	Chloroplast
LcERF-28	Lcy02g018150	Chr02: 45299504-45300552(-)	681	226	25.49	5.17	DREB subfamily	Nucleus
LcERF-29	Lcy03g007700	Chr03: 38635522-38636191(+)	477	158	16.74	6.27	ERF subfamily	Chloroplast
LcERF-30	Lcy03g010890	Chr03: 44881095-44882217(+)	600	199	22.24	4.87	ERF subfamily	Cytoplasm
LcERF-31	Lcy03g012670	Chr03: 46634473-46635859(-)	549	182	20.39	9.12	DREB subfamily	Nucleus
LcERF-32	Lcy03g013670	Chr03: 47655872-47656670(-)	627	208	23.41	5.88	ERF subfamily	Nucleus
LcERF-33	Lcy03g016350	Chr03: 50170578-50172736(+)	669	222	24.94	9.05	ERF subfamily	Nucleus

Gene name	Gene ID	Position	Coding sequence length/bp	Protein length/aa	Relative molecular weight/kDa	Theoretical Isoelectric Point (pI)	Group	Subcellular localization
LcAP2/ERF-34	Lcy03g018120	Chr03: 51876813-51879762(-)	1479	492	53.62	8.27	AP2 subfamily	Nucleus
LcAP2/ERF-35	Lcy03g018850	Chr03: 52516259-52519294(-)	1200	399	45.38	8.40	AP2 subfamily	Nucleus
LcERF-36	Lcy03g020780	Chr03: 54023138-54028312(+)	870	289	32.73	9.59	DREB subfamily	Chloroplast
LcERF-37	Lcy04g007540	Chr04: 38257457-38258683(+)	762	253	27.78	5.28	ERF subfamily	Nucleus
LcERF-38	Lcy04g008610	Chr04: 39624774-39625895(+)	1122	373	42.21	5.29	ERF subfamily	Nucleus
LcERF-39	Lcy04g010720	Chr04: 42089340-42094834(+)	1347	448	49.81	8.55	AP2 subfamily	Nucleus
LcERF-40	Lcy04g011760	Chr04: 43527997-43528963(-)	579	192	20.55	4.49	ERF subfamily	Chloroplast
LcERF-41	Lcy04g013490	Chr04: 45524842-45526171(+)	1041	346	37.09	5.24	DREB subfamily	Nucleus
LcERF-42	Lcy04g014530	Chr04: 46828795-46829542(-)	660	219	24.86	5.34	RAV subfamily	Nucleus
LcERF-43	Lcy04g014740	Chr04: 47088431-47089438(-)	564	187	20.57	7.18	ERF subfamily	Nucleus
LcAP2/ERF-44	Lcy04g015680	Chr04: 47959702-47964088(+)	1887	628	69.38	6.89	AP2 subfamily	Nucleus
LcERF-45	Lcy04g016890	Chr04: 49100794-49102987(-)	1050	349	38.12	5.47	ERF subfamily	Nucleus
LcERF-46	Lcy04g021530	Chr04: 52851231-52852185(-)	756	251	27.16	8.88	ERF subfamily	Nucleus
LcERF-47	Lcy04g021770	Chr04: 53057343-53060125(-)	690	229	25.99	5.31	DREB subfamily	Nucleus
LcERF-48	Lcy05g000470	Chr05: 574442-576539(+)	1170	389	43.06	4.97	DREB subfamily	Nucleus
LcERF-49	Lcy05g001980	Chr05: 1850963-1851989(-)	669	222	24.57	5.46	ERF subfamily	Nucleus
LcERF-50	Lcy05g003370	Chr05: 3005855-3006578(+)	558	185	20.36	10.17	ERF subfamily	Nucleus
LcERF-51	Lcy05g003410	Chr05: 3037198-3038148(-)	570	189	21.40	7.16	ERF subfamily	Mitochondrial
LcAP2/ERF-52	Lcy05g003660	Chr05: 3260911-3265820(-)	1083	360	40.37	7.16	AP2 subfamily	Nucleus
LcERF-53	Lcy05g007910	Chr05: 7927872-7928548(+)	396	131	15.35	5.21	DREB subfamily	Nucleus
LcERF-54	Lcy05g007920	Chr05: 7933964-7934750(-)	447	148	16.25	5.92	DREB subfamily	Nucleus
LcERF-55	Lcy05g007930	Chr05: 7957816-7958454(+)	639	212	24.05	5.32	DREB subfamily	Nucleus
LcERF-56	Lcy05g008600	Chr05: 8712990-8714202(+)	531	176	18.87	8.86	DREB subfamily	Nucleus
LcERF-57	Lcy05g009880	Chr05: 10320830-10325865(+)	693	230	26.03	9.86	Soloist	Nucleus
LcERF-58	Lcy05g011720	Chr05: 13395551-13396645(+)	795	264	29.91	4.89	ERF subfamily	Nucleus
LcERF-59	Lcy05g012250	Chr05: 14161985-14162897(+)	759	252	27.71	8.41	RAV subfamily	Chloroplast
LcERF-60	Lcy05g015290	Chr05: 19036139-19036465(+)	234	77	84.96	9.57	RAV subfamily	Chloroplast
LcERF-61	Lcy06g001840	Chr06: 1763167-1765458(+)	1044	347	40.08	4.85	DREB subfamily	Nucleus
LcERF-62	Lcy06g007610	Chr06: 7373036-7373806(+)	522	173	18.47	9.77	ERF subfamily	Chloroplast
LcERF-63	Lcy06g007630	Chr06: 7387569-7389048(-)	714	237	26.05	9.48	ERF subfamily	Nucleus
LcERF-64	Lcy06g009610	Chr06: 9967166-9967486(-)	321	106	11.44	4.11	ERF subfamily	Nucleus
LcERF-65	Lcy06g015940	Chr06: 35555554-35556433(+)	519	172	19.81	5.99	DREB subfamily	Nucleus
LcERF-66	Lcy06g016820	Chr06: 38644136-38644465(-)	330	109	12.20	10.39	DREB subfamily	Nucleus
LcERF-67	Lcy06g020450	Chr06: 45291616-45292211(-)	558	185	19.71	5.49	ERF subfamily	Nucleus

Gene name	Gene ID	Position	Coding sequence length/bp	Protein length/aa	Relative molecular weight/kDa	Theoretical Isoelectric Point (pI)	Group	Subcellular localization
LcERF-68	Lcy07g002220	Chr07: 8341168-8342770(+)	837	278	30.33	8.54	DREB subfamily	Nucleus
LcERF-69	Lcy07g005200	Chr07: 27760710-27761560(+)	498	165	18.37	9.67	ERF subfamily	Nucleus
LcAP2/ERF-70	Lcy07g005220	Chr07: 27883192-27885997(+)	1458	485	53.63	5.67	AP2 subfamily	Nucleus
LcERF-71	Lcy07g012580	Chr07: 41777838-41779049(+)	1212	403	46.18	5.01	ERF subfamily	Nucleus
LcERF-72	Lcy07g013280	Chr07: 42470883-42472639(+)	657	218	24.19	7.64	ERF subfamily	Nucleus
LcERF-73	Lcy07g016080	Chr07: 44863468-44867042(-)	1485	494	54.09	6.55	AP2 subfamily	Nucleus
LcAP2/ERF-74	Lcy07g018580	Chr07: 47141741-47144337(+)	1713	570	62.94	6.35	AP2 subfamily	Nucleus
LcERF-75	Lcy07g019590	Chr07: 48041966-48043528(+)	756	251	27.40	5.61	ERF subfamily	Nucleus
LcERF-76	Lcy08g005850	Chr08: 7305194-7307148(+)	1221	406	45.73	6.06	ERF subfamily	Nucleus
LcERF-77	Lcy08g006230	Chr08: 7917866-7918537(-)	672	223	24.10	9.10	ERF subfamily	Nucleus
LcERF-78	Lcy08g006840	Chr08: 8598229-8599947(+)	633	210	22.98	7.01	ERF subfamily	Nucleus
LcERF-79	Lcy08g008430	Chr08: 15138202-15139061(+)	648	215	23.49	5.90	ERF subfamily	Nucleus
LcAP2/ERF-80	Lcy08g010480	Chr08: 33022480-33027556(-)	2004	667	71.66	6.15	AP2 subfamily	Nucleus
LcERF-81	Lcy08g017520	Chr08: 48259383-48261035(+)	693	230	25.31	9.48	ERF subfamily	Nucleus
LcERF-82	Lcy08g018330	Chr08: 49032129-49033228(+)	792	263	28.49	4.98	ERF subfamily	Nucleus
LcERF-83	Lcy09g000200	Chr09: 183649-184482(+)	456	151	16.61	6.18	ERF subfamily	Nucleus
LcERF-84	Lcy09g002170	Chr09: 1760127-1761231(-)	912	303	32.50	9.54	ERF subfamily	Nucleus
LcERF-85	Lcy09g008650	Chr09: 8183746-8184645(+)	417	138	15.28	9.16	ERF subfamily	Nucleus
LcERF-86	Lcy09g010140	Chr09: 10705841-10707887(-)	1233	410	43.55	6.35	DREB subfamily	Nucleus
LcERF-87	Lcy09g011760	Chr09: 12798957-12799568(+)	612	203	22.33	5.00	ERF subfamily	Nucleus
LcERF-88	Lcy09g013410	Chr09: 14963188-14963859(-)	672	223	24.38	5.04	ERF subfamily	Nucleus
LcERF-89	Lcy09g014530	Chr09: 17348561-17349505(+)	945	314	34.99	4.62	DREB subfamily	Nucleus
LcAP2/ERF-90	Lcy09g018150	Chr09: 39031127-39037822(-)	1173	390	44.52	8.14	AP2 subfamily	Nucleus
LcAP2/ERF-91	Lcy10g004770	Chr10: 12470242-12476079(+)	1296	431	47.22	8.52	AP2 subfamily	Nucleus
LcERF-92	Lcy10g007140	Chr10: 29589317-29590087(-)	720	239	26.43	5.02	ERF subfamily	Nucleus
LcERF-93	Lcy10g011110	Chr10: 39270496-39272036(-)	675	224	24.89	6.20	DREB subfamily	Nucleus
LcERF-94	Lcy10g011650	Chr10: 39891774-39892772(+)	999	332	36.34	5.54	ERF subfamily	Nucleus
LcERF-95	Lcy10g013880	Chr10: 42044738-42045169(+)	432	143	15.67	5.92	DREB subfamily	Nucleus
LcERF-96	Lcy10g013890	Chr10: 42057619-42058411(-)	456	151	16.97	9.24	DREB subfamily	Nucleus
LcERF-97	Lcy10g013900	Chr10: 42076928-42078057(+)	675	224	24.61	4.94	DREB subfamily	Nucleus
LcERF-98	Lcy10g014730	Chr10: 42929377-42930282(-)	483	160	18.20	10.47	DREB subfamily	Nucleus
LcERF-99	Lcy10g016510	Chr10: 44662440-44663261(+)	696	231	25.48	9.45	ERF subfamily	Chloroplast
LcERF-100	Lcy10g018330	Chr10: 46152986-46154188(+)	756	251	28.08	5.65	ERF subfamily	Extra-mitochondrial
LcERF-101	Lcy10g018650	Chr10: 46467833-46468504(-)	513	170	19.24	10.00	DREB subfamily	Nucleus
LcERF-102	Lcy10g018720	Chr10: 46593039-46593580(-)	492	163	18.18	9.72	DREB	Nucleus

Gene name	Gene ID	Position	Coding sequence length/bp	Protein length/aa	Relative molecular weight/kDa	Theoretical Isoelectric Point (pI)	Group	Subcellular localization
							subfamily	
LcERF-103	Lcy11g000980	Chr11: 953731-955266(+)	984	327	36.92	4.70	ERF subfamily	Nucleus
LcERF-104	Lcy11g001960	Chr11: 1863573-1864303(+)	561	186	19.60	4.89	ERF subfamily	Mitochondrial
LcERF-105	Lcy11g003080	Chr11: 2952209-2953144(-)	579	192	21.51	7.89	DREB subfamily	Nucleus
LcERF-106	Lcy11g003090	Chr11: 2967765-2968712(-)	699	232	25.41	9.39	DREB subfamily	Nucleus
LcERF-107	Lcy11g005150	Chr11: 4944775-4945804(-)	837	278	30.53	5.29	RAV subfamily	Nucleus
LcERF-108	Lcy11g007840	Chr11: 8124021-8125109(+)	921	306	33.75	8.87	ERF subfamily	Nucleus
LcERF-109	Lcy11g007980	Chr11: 8292989-8294831(-)	954	317	35.21	5.05	ERF subfamily	Nucleus
LcAP2/ERF-110	Lcy11g010720	Chr11: 12408439-12413269(+)	1560	519	56.94	6.26	AP2 subfamily	Nucleus
LcERF-111	Lcy11g016850	Chr11: 40601741-40602862(+)	507	168	18.45	6.19	ERF subfamily	Nucleus
LcERF-112	Lcy11g018520	Chr11: 45226747-45227831(-)	690	229	25.22	6.71	ERF subfamily	Nucleus
LcERF-113	Lcy11g018630	Chr11: 45429860-45431407(-)	1011	336	37.47	5.48	DREB subfamily	Nucleus
LcERF-114	Lcy11g018650	Chr11: 45472258-45473417(+)	870	289	30.93	5.86	DREB subfamily	Nucleus
LcERF-115	Lcy12g001660	Chr12: 3508025-3508537(-)	513	170	18.86	6.05	ERF subfamily	Nucleus
LcERF-116	Lcy12g001740	Chr12: 3960802-3962280(+)	555	184	20.26	5.53	ERF subfamily	Nucleus
LcERF-117	Lcy12g002020	Chr12: 5453509-5454015(+)	507	168	18.75	5.04	ERF subfamily	Nucleus
LcERF-118	Lcy12g003390	Chr12: 10472141-10472635(+)	495	164	17.87	9.66	ERF subfamily	Chloroplast
LcERF-119	Lcy12g005030	Chr12: 19301988-19304310(-)	1074	357	37.28	8.52	DREB subfamily	Nucleus
LcERF-120	Lcy12g011670	Chr12: 39196133-39197578(-)	588	195	20.93	6.75	ERF subfamily	Chloroplast
LcERF-121	Lcy12g014180	Chr12: 42215829-42216806(+)	678	225	24.82	4.99	ERF subfamily	Nucleus
LcERF-122	Lcy12g014420	Chr12: 42395095-42396464(-)	1095	364	39.67	6.60	ERF subfamily	Nucleus
LcERF-123	Lcy12g016960	Chr12: 44670612-44672258(-)	579	192	21.46	8.96	ERF subfamily	Nucleus
LcERF-124	Lcy12g018000	Chr12: 45529352-45530155(+)	612	203	22.54	4.51	ERF subfamily	Cytoplasm
LcAP2/ERF-125	Lcy12g018840	Chr12: 46183425-46186278(-)	1743	580	64.66	8.06	AP2 subfamily	Nucleus
LcERF-126	Lcy12g019580	Chr12: 46885048-46886218(+)	459	152	17.23	7.88	ERF subfamily	Nucleus
LcERF-127	Lcy13g001250	Chr13: 1209983-1211086(+)	1104	367	41.01	5.95	ERF subfamily	Nucleus
LcERF-128	Lcy13g004550	Chr13: 3922153-3922531(+)	1116	371	41.74	4.71	DREB subfamily	Extra-mitochondrial
LcERF-129	Lcy13g004560	Chr13: 3922605-3923543(+)	939	312	35.07	4.60	DREB subfamily	Nucleus
LcERF-130	Lcy13g005370	Chr13: 4597731-4602357(+)	1278	425	48.07	5.49	AP2 subfamily	Chloroplast
LcERF-131	Lcy13g007630	Chr13: 7177621-7178361(+)	570	189	21.24	8.80	DREB subfamily	Nucleus
LcERF-132	Lcy13g008110	Chr13: 7697120-7701214(+)	1074	357	39.70	8.24	AP2 subfamily	Nucleus
LcERF-133	Lcy13g009990	Chr13: 10485329-10486564(+)	540	179	19.51	5.55	ERF subfamily	Chloroplast

Note: + and − respectively refer to the forward and reverse orientations of the genes on chromosomes.