

**Supplementary Table 1.** Repeat elements present in clonal accessions of *Eucalyptus* (*E. camaldulensis* (EC17), *E. tereticornis* (ET86 and ET217), *E. grandis* (EG9))

Repeat type	EC17			ET86			ET217			EG9		
	Copy number	Total (bp)	%	Copy number	Total (bp)	%	Copy number	Total (bp)	%	Copy number	Total (bp)	%
LINE	12,010	13,286,007	3.67	15,598	10,036,488	3.54	11,930	12,908,797	3.29	12,457	14,070,671	3.80
LTR elements	56,594	73,892,165	20.41	62,821	44,747,216	15.78	83,502	102,694,206	26.15	64,667	80,472,238	21.72
SINE	0	0	0.00	63	5,642	0.00	141	28,070	0.01	0	0	0.00
DNA/hAT-Ac	813	546,213	0.15	932	486,396	0.17	1,023	1,034,873	0.26	1,349	573,002	0.15
DNA/hAT-Tag1	191	99,953	0.03	183	152,361	0.05	227	104,335	0.03	150	95,003	0.03
DNA/MuLE-MuDR	1,042	1,323,175	0.37	2,192	1,489,172	0.53	2,206	1,888,827	0.48	1,927	1,627,857	0.44
DNA/PIF-Harbinger	1,847	1,005,024	0.28	1,081	562,110	0.20	995	535,691	0.14	778	961,162	0.26
LINE/L1	11,793	13,236,304	3.66	15,598	10,036,488	3.54	11,569	12,744,080	3.25	11,961	13,821,606	3.73
LTR/Caulimovirus	2,324	2,996,502	0.83	3,141	110,826	0.04	2,732	709,232	0.18	2,805	3,672,335	0.99
LTR/Copia	38,537	54,320,822	15.00	41,014	3,767,468	1.33	1,858	2,778,095	0.71	38,061	52,853,878	14.27
LTR/Gypsy	15,733	16,574,841	4.58	18,286	29,093,387	10.26	67,121	86,221,683	21.96	23,635	23,894,121	6.45
Unclassified	553,748	184,785,756	51.04	589,120	183,098,663	64.57	545,398	171,038,474	43.56	540,726	178,419,464	48.16
Total genome masked (bp)	694,632	362,066,762	40.83	750,029	283,586,217	53.65	728,702	392,686,363	35.82	698,516	370,461,337	39.49