

**Table S2. Calculated digestion patterns of EC151 DNA for type II restriction endonucleases**

	Acc65I (G <sup>^</sup> GTACC)	ApaI (GGGCC <sup>^</sup> C )	DraI (TTT <sup>^</sup> AAA)	KpnI (GGTAC <sup>^</sup> C)	Sall (G <sup>^</sup> TCGAC)	XmaI (C <sup>^</sup> CCGGG)
Calculated size of DNA fragments (b.p)	18744 13000 10526 5458 5283 3953 3454 336	29330 21664 9760	9428 7239 7190 4543 2975 2649 2218 2127 2090 1939 1600 1596 1528 1363 1360 1339 1303 1238 1203 1181 1100 1012 549 540 422 320 237 229 190 40 6	18744 13000 10526 5458 5283 3953 3454 336	18644 13525 13133 7532 2425 1523 1518 1101 756 389 208	31431 23753 5570