

[10.1071/CP22281](https://doi.org/10.1071/CP22281)

*Crop & Pasture Science*

### Supplementary Material

#### **Successful creation of seedless (sterile) leucaena germplasm developed from interspecific hybridisation for use as forage**

*D. Real<sup>A,\*</sup>, C. Revell<sup>A</sup>, Y. Han<sup>A,B</sup>, C. Li<sup>B</sup>, M. Castello<sup>A</sup>, and C. D. Bailey<sup>C</sup>*

<sup>A</sup>Department of Primary Industries and Regional Development, South Perth, WA 6151, Australia.

<sup>B</sup>Western Crop Genetics Alliance, College of Science, Health, Engineering and Education, Murdoch University, Murdoch, WA 6150, Australia.

<sup>C</sup>Department of Biology, New Mexico State University, Las Cruces, NM 88003, USA.

\*Correspondence to: D. Real Department of Primary Industries and Regional Development, South Perth WA 6151, Australia Email: [daniel.real@dpird.wa.gov.au](mailto:daniel.real@dpird.wa.gov.au)

**Supplementary Table S1. Primer sequence for 39 KASP markers based on the draft genome from *Leucaena trichandra*.**

KASP marker	Primer	Sequence
1	Forward 1	GAAGGTGACCAAGTTCATGCTAAGAGTACGTTCCCTGTTGCT
	Forward 2	GAAGGTCGGAGTCAACGGATTAAGAGTACGTTCCCTGTTGCC
	Reverse	ATTTTTGAAGCCATCATTTAAGATGTG
2	Forward 1	GAAGGTGACCAAGTTCATGCTGTGAAGGATCCTCACCAACA
	Forward 2	GAAGGTCGGAGTCAACGGATTGTGAAGGATCCTCACCAACG
	Reverse	CCTCAGCTGTTAAAAGACATGG
3	Forward 1	GAAGGTGACCAAGTTCATGCTAAAAAGAGATGGTTACAGAGA
	Forward 2	GAAGGTCGGAGTCAACGGATTA AAAAGAGATGGTTACAGAGG
	Reverse	CAACAAATATTTCTCTATAACGTCG
4	Forward 1	GAAGGTGACCAAGTTCATGCTATTCATAATTAATTACCATATT
	Forward 2	GAAGGTCGGAGTCAACGGATTATTCATAATTAATTACCATATG
	Reverse	TCTTCTTGATTGAAGAGGT
5	Forward 1	GAAGGTGACCAAGTTCATGCTTTCCAGGCCTTAGAGTACCG
	Forward 2	GAAGGTCGGAGTCAACGGATTTTCCAGGCCTTAGAGTACCC
	Reverse	ATGAAGTCATTCTCAGCAACACC
6	Forward 1	GAAGGTGACCAAGTTCATGCTTGGCAGTCACACCATTTTCT
	Forward 2	GAAGGTCGGAGTCAACGGATTTGGCAGTCACACCATTTTCA
	Reverse	ACTTCTATCTCACCGAAGTCG
7	Forward 1	GAAGGTGACCAAGTTCATGCTCCCTCTTTTGGCATGCACAC
	Forward 2	GAAGGTCGGAGTCAACGGATTCCCTCTTTTGGCATGCACAT
	Reverse	GGTCTGGGAAAAGGGTAAGG
8	Forward 1	GAAGGTGACCAAGTTCATGCTGCCTCACCAAACATCTCCCT
	Forward 2	GAAGGTCGGAGTCAACGGATTGCCTCACCAAACATCTCCCC
	Reverse	ACTCAAGAGAAGTGAGGAAGC
9	Forward 1	GAAGGTGACCAAGTTCATGCTGAATCCCGGGTTCCTGTTCA

	Forward 2	GAAGGTCGGAGTCAACGGATTGAATCCCGGGTTCTGTTCG
	Reverse	GAAAGCTTTCTCCTATATCCCC
	Forward 1	GAAGGTGACCAAGTTCATGCTGTAGTGAAATGGCATTACCG
10	Forward 2	GAAGGTCGGAGTCAACGGATTGTAGTGAAATGGCATTACCA
	Reverse	ACCACCCCTTCATTTACTGG
	Forward 1	GAAGGTGACCAAGTTCATGCTACAACCCTCTCACCGGCTCG
11	Forward 2	GAAGGTCGGAGTCAACGGATTACAACCCTCTCACCGGCTCC
	Reverse	AAGGCACTCTCACTCAAGGC
	Forward 1	GAAGGTGACCAAGTTCATGCTAGGCCTCTTCAATTTAAACC
12	Forward 2	GAAGGTCGGAGTCAACGGATTAGGCCTCTTCAATTTAAACA
	Reverse	AAAAATCATAAGGTACGCAAAC
	Forward 1	GAAGGTGACCAAGTTCATGCTGCATTATCCTGGTTTTCAAT
13	Forward 2	GAAGGTCGGAGTCAACGGATTGCATTATCCTGGTTTTCAAC
	Reverse	TCGATGAGGGGAAGAGAAGT
	Forward 1	GAAGGTGACCAAGTTCATGCTAAGTCCTTCAAAGATCTACA
14	Forward 2	GAAGGTCGGAGTCAACGGATTAAGTCCTTCAAAGATCTACG
	Reverse	AATTACTTGTATATGTGAAGGCCG
	Forward 1	GAAGGTGACCAAGTTCATGCTGTAAGTAGTAAAGGAACAGT
15	Forward 2	GAAGGTCGGAGTCAACGGATTGTAAGTAGTAAAGGAACAGG
	Reverse	TCCGGAATCTGCATTGATGG
	Forward 1	GAAGGTGACCAAGTTCATGCTGCAGAGATCGGGGACTCG
16	Forward 2	GAAGGTCGGAGTCAACGGATTGCAGAGATCGGGGACTCT
	Reverse	CGTTTGGGATCGTCACCTGTT
	Forward 1	GAAGGTGACCAAGTTCATGCTGCAGGCAGGCAGGTGCAAT
17	Forward 2	GAAGGTCGGAGTCAACGGATTGCAGGCAGGCAGGTGCAAC
	Reverse	AAGACCCATGGGATCTTTTCG
	Forward 1	GAAGGTGACCAAGTTCATGCTAATTTTCGAAGTGCCTGGCC
18	Forward 2	GAAGGTCGGAGTCAACGGATTAATTTTCGAAGTGCCTGGCT
	Reverse	AGGTAGCTGCTCTTGTTCT

19	Forward 1	GAAGGTGACCAAGTTCATGCTAAGGCCTTGTTTCCAAGCG
	Forward 2	GAAGGTCGGAGTCAACGGATTAAGGCCTTGTTTCCAAGCC
	Reverse	CAATTTGTTGCACCAGTTCATGT
20	Forward 1	GAAGGTGACCAAGTTCATGCTCATAACTGTTGAATAATCCTA
	Forward 2	GAAGGTCGGAGTCAACGGATTCATAACTGTTGAATAATCCTC
	Reverse	GCCACCGTTGATGAAATATCA
21	Forward 1	GAAGGTGACCAAGTTCATGCTAGGATGTTGGTAGTAGGCTG
	Forward 2	GAAGGTCGGAGTCAACGGATTAGGATGTTGGTAGTAGGCTC
	Reverse	CAAATAAAGCATGACGAGG
22	Forward 1	GAAGGTGACCAAGTTCATGCTGAGTTGGGGTAGAAACTACG
	Forward 2	GAAGGTCGGAGTCAACGGATTGAGTTGGGGTAGAAACTACA
	Reverse	GCACGGAGCACAGTTGTAA
23	Forward 1	GAAGGTGACCAAGTTCATGCTAAGATCTAACCTTTGCCACA
	Forward 2	GAAGGTCGGAGTCAACGGATTAAGATCTAACCTTTGCCACG
	Reverse	CTTATGAGCCATAATCTAGCAAGT
24	Forward 1	GAAGGTGACCAAGTTCATGCTAATCTATGATGACCTCGACA
	Forward 2	GAAGGTCGGAGTCAACGGATTAATCTATGATGACCTCGACG
	Reverse	GAATTAACGTGAAATAAAATTAGCCCACA
25	Forward 1	GAAGGTGACCAAGTTCATGCTCTGGTTGCGCTTCTCATAGT
	Forward 2	GAAGGTCGGAGTCAACGGATTCTGGTTGCGCTTCTCATAGA
	Reverse	AAGGCTTGAGAGAGATCTAGCA
26	Forward 1	GAAGGTGACCAAGTTCATGCTAACAACAGATCATGGACGAC
	Forward 2	GAAGGTCGGAGTCAACGGATTAACAACAGATCATGGACGAA
	Reverse	ACCAAAGACTGAAGCCTCTT
27	Forward 1	GAAGGTGACCAAGTTCATGCTCAAGATATTCCAATCTATCA
	Forward 2	GAAGGTCGGAGTCAACGGATTCAAGATATTCCAATCTATCC
	Reverse	ATAACAAGAGTGCTGAAGTAG
28	Forward 1	GAAGGTGACCAAGTTCATGCTTGTAATTTGTACCAAGACAA
	Forward 2	GAAGGTCGGAGTCAACGGATTTGTAATTTGTACCAAGACAG

	Reverse	AGAACCTGGGTATGTATTTTCGTG
	Forward 1	GAAGGTGACCAAGTTCATGCTGATTGCATGGCATTGAAGGG
29	Forward 2	GAAGGTCGGAGTCAACGGATTGATTGCATGGCATTGAAGGT
	Reverse	TCCAAAATCTGAGTCAAAAGCTGT
	Forward 1	GAAGGTGACCAAGTTCATGCTGTACGATAGGAGGCACG
30	Forward 2	GAAGGTCGGAGTCAACGGATTGTCACGATAGGAGGCACA
	Reverse	GGTCGTGAAGCCGCCGTC
	Forward 1	GAAGGTGACCAAGTTCATGCTGAGAGAGGCTCACCCAC
31	Forward 2	GAAGGTCGGAGTCAACGGATTGAGAGAGGCTCACCCAT
	Reverse	TGACAGCAAAGTATTCCGTG
	Forward 1	GAAGGTGACCAAGTTCATGCTTAACCATTCTCATCACTTT
32	Forward 2	GAAGGTCGGAGTCAACGGATTTAACCATTCTCATCACTTC
	Reverse	GAGCCCAGGAGAGTGCCG
	Forward 1	GAAGGTGACCAAGTTCATGCTAGGTAATGTGGACATTCTCG
33	Forward 2	GAAGGTCGGAGTCAACGGATTAGGTAATGTGGACATTCTCC
	Reverse	TGTCCTGTAAATTATCAATATTCTT
	Forward 1	GAAGGTGACCAAGTTCATGCTTGGCTTTGGAGTGGCAGG
34	Forward 2	GAAGGTCGGAGTCAACGGATTTGGCTTTGGAGTGGCAGT
	Reverse	TCATCTGGCATGACAAAACCA
	Forward 1	GAAGGTGACCAAGTTCATGCTTAGAACAAGCCATAGTGATA
35	Forward 2	GAAGGTCGGAGTCAACGGATTTAGAACAAGCCATAGTGATG
	Reverse	AATTTATAGCCCGACCTCTTGG
	Forward 1	GAAGGTGACCAAGTTCATGCTAATCTAAAGATCAGTCCA
36	Forward 2	GAAGGTCGGAGTCAACGGATTAATCTAAAGATCAGTCCC
	Reverse	AGGCACGAGAGAGAAGAAATGG
	Forward 1	GAAGGTGACCAAGTTCATGCTCTGTTACGACCCGGGAAC
37	Forward 2	GAAGGTCGGAGTCAACGGATTCTGTTACGACCCGGGAAA
	Reverse	AGGCTCCTTCAATTTCTCAGCT
38	Forward 1	GAAGGTGACCAAGTTCATGCTCTCCTTCTTGAATGCACTT

Forward 2 GAAGGTCGGAGTCAACGGATTCTCCTTCTTGGAATGCACTC

Reverse TTAAGAGAAGAAACAAAAGCGAGCT

---

Forward 1 GAAGGTGACCAAGTTCATGCTACCAAGAACTACCCATCGAT

39 Forward 2 GAAGGTCGGAGTCAACGGATTACCAAGAACTACCCATCGAC

Reverse ATGGAAGAATCTCTAGAAACAGCT

---