

Appendix 1. Taxa included in the phylogenetic study of *Abildgaardieae* using sequences of *trnL*–*F* and ITS regions and palynological data.

Specimens (species) in bold are illustrated Figs 5.2–5.33. Tribal classification of Cyperaceae according to Goetghebeur (1998, in bold) and Bruhl (1995, in parentheses). The sequences of specimens with n.a. (not available) in the GenBank number column have not yet been submitted to GenBank.

| Species | Voucher and provenance/herbarium | GenBank Number ^o |
|---|---|-------------------------------|
| Abildgaardieae (Abildgaardieae) | | |
| (<i>Fimbristylis macrantha</i> Boeck.) ♦ | K. L. Clarke 216, NT (Australia)/NE | — |
| <i>'Abildgaardia macrantha'</i> ≈ | | |
| <i>Abildgaardia ovata</i> (Burm.f.) Kral | V. Klaphake 1410, NSW (Australia)/NSW♦ | AY506708 (AY506758) |
| (<i>Fimbristylis oxystachya</i> F.Muell.) | K. L. Clarke 165, WA (Australia)/NE | AY506704 (AY506762) |
| <i>'Abildgaardia oxystachya'</i> ≈ | | |
| (<i>Fimbristylis pachyptera</i> S.T.Blake) | K. L. Clarke 181, NT (Australia)/NE | AY506707 (AY506760) |
| <i>'Abildgaardia pachyptera'</i> ≈ | | |
| <i>Abildgaardia schoenoides</i> R.Br. | K. L. Clarke 70, Qld (Australia)/NE | AY506706 (AY506761) |
| <i>Abildgaardia schoenoides</i> R.Br. | K. L. Clarke 111, WA (Australia)/NE | n.a. |
| <i>Abildgaardia vaginata</i> R.Br. | J. J. Bruhl 2057, NSW (Australia)/NE | AY506705 (AY506759) |
| <i>Bulbostylis barbata</i> (Rottb.) C.B.Clarke | K. L. Clarke 113, WA (Australia)/NE | AY506709 (AY506764) |
| <i>Bulbostylis densa</i> (Wall.) Hand.-Mazz. | V. Klaphake 1411, NSW (Australia)/NE | AY506710 (AY506763) |
| <i>Bulbostylis striatella</i> C.B.Clarke | J. J. Bruhl 2084, NSW (Australia)/NE | AY506711 (AY506765) |
| <i>Bulbostylis</i> sp. nov. (NT1)* | K. L. Clarke 184, NT (Australia)/NE | AY506713 (AY506766) |
| <i>Bulbostylis</i> sp. nov. (NT2)* | K. L. Clarke 184a, NT (Australia)/NE | AY506714 |
| <i>Bulbostylis</i> sp. nov. (NT3)* | K. L. Clarke 184b, NT (Australia)/NE | AY506712 |
| <i>Crosslandia setifolia</i> W.V.Fitzg. (NT1) | K. L. Clarke 246, NT (Australia)/NE | AY506718 (AY506768) |
| <i>Crosslandia setifolia</i> W.V.Fitzg. (WA1) | K. L. Clarke 115, WA (Australia)/NE | (AY506770) |
| <i>Crosslandia setifolia</i> W.V.Fitzg. (NT2) | K. L. Clarke 185, NT (Australia)/NE | AY506716 (AY506769) |
| <i>Crosslandia setifolia</i> W.V.Fitzg. (NT3) | K. L. Clarke 252, NT (Australia)/NE | AY506717 (AY506767) |
| <i>Crosslandia setifolia</i> W.V.Fitzg. (WA2) | K. L. Clarke 117, WA (Australia)/NE | (AY506771) |
| <i>Fimbristylis acuminata</i> Vahl | KI W 10059, WA (Australia)/NSW | (AY506774) |
| <i>Fimbristylis arnhemensis</i> Latz | K. L. Clarke 177, NT (Australia)/NE | AY506722 (AY506776) |
| <i>Fimbristylis bisumbellata</i> Bubani | K. L. Clarke 107, WA (Australia)/NE | AY506724 (AY506778) |
| <i>Fimbristylis cephalophora</i> F.Muell. | K. L. Wilson 10070, WA (Australia)/NSW | AY506720 |

Appendix 1. (continued)

| Species | Voucher and provenance/herbarium | GenBank Number ³ |
|---|--|---|
| <i>Fimbristylis cinnamometorum</i> (Vahl) Kunth | J. J. Bruhl 2058, NSW (Australia)/NE | (AY506777) AY506721 (AY506772) |
| <i>Fimbristylis cinnamometorum</i> (Vahl) Kunth | K. L. Clarke 61, Qld (Australia)/NE | AY506725 (AY506773) |
| <i>Fimbristylis compacta</i> Turrrill | K. L. Wilson 10040, WA (Australia)/NSW | AY506723 (AY506775) |
| <i>Fimbristylis complanata</i> (Retz.) Link♦ | K. L. Clarke 310, Qld (Australia)/NE | — |
| <i>Fimbristylis cymosa</i> R.Br. | K. L. Wilson 10041, WA (Australia)/NSW | AY506750 (AY506798) |
| <i>Fimbristylis densa</i> S.T.Blake | K. L. Clarke 119, WA (Australia)/NE | AY506726 (AY506781) |
| <i>Fimbristylis densa</i> S.T.Blake | K. L. Clarke 180, NT (Australia)/NE | AY506747 (AY506779) |
| <i>Fimbristylis depauperata</i> R.Br. ♦ | K. L. Clarke 169, WA (Australia)/NE | — |
| <i>Fimbristylis dichotoma</i> (L.) Vahl | J. Dalby 01/24, NSW (Australia)/NSW | AY506727 (AY506782) |
| <i>Fimbristylis ferruginea</i> (L.) Vahl | J. Hodgson 445, NSW (Australia)/NE, NSW | AY506744 (AY506797) |
| <i>Fimbristylis furva</i> R.Br. ♦ | K. L. Clarke 226, NT (Australia)/NE, NSW | — |
| <i>Fimbristylis lanceolata</i> C.B.Clarke | K. L. Wilson 10113, WA (Australia)/NSW | AY506730 (AY506785) |
| <i>Fimbristylis laxiglumis</i> Latz. | K. L. Clarke 106, WA (Australia)/NE | AY506736 (AY506785) |
| <i>Fimbristylis littoralis</i> Gaud. ♣ | G. Orel 10, Dong Nai (Vietnam)/NSW | AY506715 (AY506790) |
| <i>Fimbristylis microcarya</i> F.Muell. (WA1) | K. L. Clarke 104, WA (Australia)/NE | AY506731 (AY506787) |
| <i>Fimbristylis microcarya</i> F.Muell. (WA2) | K. L. Clarke 131, WA (Australia)/NE | AY506735 (AY506788) |
| <i>Fimbristylis microcarya</i> F.Muell. | K. L. Clarke 322, Qld (Australia)/NE | — |
| <i>Fimbristylis neilsonii</i> F.Muell. (WA form) | K. L. Wilson 10051, WA (Australia)/NSW | AY506719 (AY506784) |
| <i>Fimbristylis nutans</i> (Retz.) Vahl | J. Hodgson 541, NSW (Australia)/NE | AY506733 (AY506789) |
| <i>Fimbristylis pauciflora</i> R.Br. | K. L. Clarke 50, Qld (Australia)/NE | (AY506783) |
| <i>Fimbristylis phaeoleuca</i> S. T. Blake♦ | K. L. Clarke 321, Qld (Australia)/NE, NSW | — |
| <i>Fimbristylis polytrichoides</i> (Retz.) R.Br. (Qld1) | K. L. Clarke 91, Qld (Australia)/ NE | (AY506796) |
| <i>Fimbristylis polytrichoides</i> (Retz.) R.Br. (Qld2) | S. Jacobs 8688, Qld (Australia)/NSW | AY506737 (AY506795) |
| <i>Fimbristylis pterygosperma</i> R.Br. (WA1) | K. L. Clarke 118, WA (Australia)/NE | AY506729 (AY506794) |
| <i>Fimbristylis pterygosperma</i> R.Br. (WA2) | K. L. Clarke 164, WA (Australia)/NE | AY506732 |
| <i>Fimbristylis pterygosperma</i> R.Br. | K. L. Clarke 179, NT (Australia)/NE | AY506734 (AY506793) |
| <i>Fimbristylis punctata</i> R.Br. (WA1) | K. L. Clarke 109, WA (Australia)/NE | AY506741 |
| <i>Fimbristylis punctata</i> R.Br. (WA2) | K. L. Clarke 114, WA (Australia)/NE | AY506739 |
| <i>Fimbristylis punctata</i> R.Br. (WA3) | K. L. Clarke 133, WA (Australia)/NE | AY506740 |
| <i>Fimbristylis rara</i> R.Br. | K. L. Clarke 105, WA (Australia)/NE | AY506728 (AY506786) |
| <i>Fimbristylis schultzei</i> Boeck. | K. L. Clarke 108, WA (Australia)/NE | AY506748 |

Appendix 1. (continued)

| Species | Voucher and provenance/herbarium | GenBank Number ⁶ |
|---|---|---|
| <i>Fimbristylis sericea</i> R.Br. | K. L. Wilson 10042. WA (Australia)/NSW | (AY506791) AY506743 (AY506803) |
| <i>Fimbristylis sieberiana</i> Kunth | S. Jacobs 8659. Qld (Australia)/NSW | AY506742 (AY506801) |
| <i>Fimbristylis sphaerocephala</i> Benth. ♦ | K. L. Clarke 218, NT (Australia)/NE, NSW | — |
| <i>Fimbristylis tetragona</i> R.Br. | K. L. Clarke 11, Qld (Australia)/NE | AY506749 (AY506800) |
| <i>Fimbristylis tetragona</i> R.Br. | K. L. Clarke 173, WA (Australia)/NE | AY506746 (AY506799) |
| <i>Fimbristylis tristachya</i> R.Br. | K. L. Clarke 3, Qld (Australia)/NE | AY506745 (AY506802) |
| <i>Fimbristylis velata</i> R.Br. | K. L. Wilson 10028, WA (Australia)/NSW | AY506738 (AY506792) |
| <i>Fimbristylis xyridis</i> R.Br. ♦ | K. L. Clarke 192, WA (Australia)/NE, NSW | — |
| Schoeneae (Arthrostylideae) | | |
| <i>(Fimbristylis composita</i> Latz) (NT1) <i>'Actinoschoenus composita'</i> ≈ | K. L. Clarke 214, NT (Australia)/NE, NSW | AY 506701 (AY506754) |
| <i>(Fimbristylis composita</i> Latz) (NT2) <i>'Actinoschoenus composita'</i> ≈ | K. L. Clarke 213, NT (Australia)/NE | AY 506702 (AY506755) |
| <i>(Fimbristylis composita</i> Latz) (NT3) <i>'Actinoschoenus composita'</i> ≈ | K. L. Clarke 186, NT (Australia)/NE, NSW | AY 506703 (AY506756) |
| <i>Arthrostylis aphylla</i> R.Br. (NT1) | K. L. Clarke 212, NT (Australia)/NE | n.a. |
| <i>Arthrostylis aphylla</i> R.Br. (NT2) | K. L. Clarke 183, NT (Australia)/NE | AY 506700 (AY506757) |
| <i>Arthrostylis</i> sp. | K. L. Clarke 96, Qld (Australia)/NE, NSW | AY 506699 |
| Fuireneae (Scirpeae) | | |
| <i>Boboschoenus caldwellii</i> Sojak | K. Ghamkhar A1, NSW (Australia)/NSW | AY 506698 (AY506752) |
| <i>Schoenoplectus littoralis</i> (Schrader) Palla | K. L. Clarke 26, Qld (Australia)/NE | AY 506697 (AY506753) |
| <i>Fuirena ciliaris</i> (L.) Roxb. † | K. L. Clarke 7, Qld (Australia)/NE | n.a. |
| Eleocharideae (Scirpeae) | | |
| <i>Eleocharis cylindrostachys</i> Boeck. | K. L. Wilson 9844, NSW (Australia)/NSW | AY 506696 (AY506751) |

* = Three populations of the same species; † = This specimen was sequenced but was not used in the analyses because of sequence mismatches with other specimens; ≈ = These combinations are not yet published; ♦ = Only used in the pollen morphological study; ◊ = *trnL*-*rbcL* (in bold) and ITS (in brackets); ♣ = *Fimbristylis littoralis* is the only species, which I have doubt about its identification after it was found to be contaminated by traces of a *Cyperus* species. The contamination was found neither by me nor my supervisors because the sample was preserved in CTAB with the majority of sample being *F. littoralis*. Just after the submission my supervisor, Karen Wilson, noticed the contamination. Therefore further sampling of this species is necessary to make certain about the position of this species within the genus and the tribe Abildgaardieae.

Appendix 2. Taxon by character data matrix of the pollen morphological study.

See the text for the description of characters (the subset of 13 used in cladistic analyses) and Table 5.1 for a key to character numbers and state codes. A question mark indicates missing data, whereas a dash indicates an inapplicable character. NT = Northern Territory, WA = Western Australia.

| Specimens/Characters | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------------------------------|---|---|---|---|---|-------|---|---|---|----|----|-----|----|----|----|----|
| <i>Abildgaardia macrantha</i> | 0 | 2 | 1 | 2 | 1 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | ? |
| <i>Abildgaardia ovata</i> | 1 | – | – | – | – | 4 | 2 | 0 | 2 | 0 | 0 | 1 | – | 0 | 0 | ? |
| <i>Abildgaardia oxystachya</i> | 0 | 2 | 2 | 2 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| <i>Abildgaardia pachyptera</i> | 0 | 0 | 2 | 1 | 1 | 3/4 | 2 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| <i>Abildgaardia schoenoides</i> | 0 | 0 | 2 | 1 | 1 | 4 | 2 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| <i>Bulbostylis barbata</i> | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 1 | 0 | 1 |
| <i>Bulbostylis densa</i> | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | ? |
| <i>Bulbostylis</i> sp. nov. | 0 | 2 | 2 | 2 | 0 | 4 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| <i>Bulbostylis striatella</i> | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| <i>Crosslandia setifolia</i> NT1 | 0 | 2 | 2 | 2 | 1 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| <i>Crosslandia setifolia</i> NT2 | 0 | 2 | 2 | 2 | 1 | Var. | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| <i>Crosslandia setifolia</i> WA | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| <i>Fimbristylis acuminata</i> | 0 | 2 | 2 | 2 | 1 | 3,4,5 | 0 | 0 | 2 | 0 | 1 | 0/1 | 0 | 0 | 1 | 1 |
| <i>Fimbristylis cephalophora</i> | 0 | 2 | 2 | 2 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |

Appendix 2. (continued)

| Specimens/Characters | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--------------------------------------|---|---|---|---|---|-------|---|---|---|----|----|----|----|----|----|----|
| <i>Fimbristylis compacta</i> | 0 | 2 | 2 | 2 | 0 | 0/1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| <i>Fimbristylis complanata</i> | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| <i>Fimbristylis cymosa</i> | 0 | 0 | 2 | 1 | 0 | 2 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| <i>Fimbristylis densa</i> | 0 | 0 | 1 | 1 | 1 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| <i>Fimbristylis depauperata</i> | 0 | 2 | 2 | 2 | 0 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | ? |
| <i>Fimbristylis dichotoma</i> | 0 | 2 | ? | 2 | ? | 3 | 0 | 0 | 2 | 0 | 0 | 0 | ? | 0 | 1 | ? |
| <i>Fimbristylis ferruginea</i> | 0 | 2 | 2 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| <i>Fimbristylis furva</i> | 0 | 2 | 2 | 2 | 1 | 2 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| <i>Fimbristylis lanceolata</i> | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| <i>Fimbristylis laxiglumis</i> | 0 | 0 | 2 | 1 | 0 | 4 | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| <i>Fimbristylis littoralis</i> | 1 | – | – | – | – | ? | 2 | 0 | 2 | 0 | 1 | 0 | – | 0 | 0 | 1 |
| <i>Fimbristylis microcarya</i> | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| <i>Fimbristylis neilsonii</i> (form) | 0 | 2 | 2 | 2 | 0 | 2,3,4 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| <i>Fimbristylis nutans</i> | 0 | 0 | 1 | 1 | 0 | 4 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | ? |
| <i>Fimbristylis pauciflora</i> | 0 | 2 | 2 | 2 | 0 | 1 | 2 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| <i>Fimbristylis phaeoleuca</i> | 0 | 2 | 2 | 2 | 1 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 1 | ? |
| <i>Fimbristylis polytrichoides</i> | 0 | ? | ? | ? | 0 | ? | ? | 0 | 2 | 1 | 1 | ? | 0 | 0 | 1 | ? |
| <i>Fimbristylis pterygosperma</i> | 0 | 0 | 1 | 1 | 1 | 3 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |

Appendix 2. (continued)

| Specimens/Characters | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------------------------------------|---|---|---|---|---|-------|---|---|---|----|----|----|----|----|----|----|
| <i>Fimbristylis punctata</i> | 0 | 2 | 2 | 2 | 1 | 3 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| <i>Fimbristylis rara</i> | 1 | – | – | – | – | 2 | 0 | 0 | 2 | 0 | 0 | 0 | – | 0 | 1 | 1 |
| <i>Fimbristylis schultzii</i> | 0 | 0 | 2 | 1 | 1 | 5 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| <i>Fimbristylis sericea</i> | 0 | 0 | 2 | 1 | 0 | 2 | 1 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 1 | ? |
| <i>Fimbristylis sieberiana</i> | 0 | 0 | 2 | 1 | 0 | 2 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| <i>Fimbristylis sphaerocephala</i> | 0 | 0 | 1 | ? | 1 | 2 | 0 | 0 | 3 | 0 | 2 | 0 | ? | 0 | 1 | 1 |
| <i>Fimbristylis tetragona</i> | 1 | – | – | – | – | 2 | 2 | 1 | 1 | 0 | 0 | 0 | – | 0 | 1 | 1 |
| <i>Fimbristylis tristachya</i> | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| <i>Fimbristylis velata</i> | 0 | 0 | 1 | 1 | 0 | 2,3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| <i>Fimbristylis xyridis</i> | 0 | 0 | 2 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| <i>Actinoschoenus</i> sp. | 0 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 2 | 1 | 1 | 0 | 1 | 1 |
| <i>Arthrostylis aphylla</i> | 0 | 2 | 2 | 2 | 0 | 2,3,4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| <i>Bolboschoenus caldwellii</i> | 0 | 2 | 2 | 2 | 0 | 4 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| <i>Eleocharis cylindrostachys</i> | 0 | 2 | 2 | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| <i>Schoenoplectus litoralis</i> | 0 | 2 | 2 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |

Appendix 3. Data set for phylogenetic analysis of *trnL-trnF*

Nexus file format with 55 terminal taxa and 1980 characters.

```

Eleocharis_cylindrostachys ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Schoenoplectus_littoralis ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Bolboschoenus_caldwellii ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Arthrostylis_aphylla_WA ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Arthrostylis_aphylla_NT C:: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Actinoschoenus_NT1 T:: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Actinoschoenus_WA ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Abil_oxystachya TT:: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: TTT GAA :CT GGT GAC ACG AGG
Abil_vaginata ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Abil_schoenoides TAT ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Abil_pachptera ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Abil_ovata ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Bulb_barbata ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Bulb_densa ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Bulb_striatella ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Bulb_sp_nov_1 ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_littoralis TAT C:: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Cross_setifolia_NT_2 ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Cross_setifolia_NT3 GTT T:: ::: ::: ::: ::: ::: ::: ::: ::: ::: :TA TTT GAA CTC GGG GAC CCG AGG
Cross_setifolia_NT1 ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :TA TTT GAA :CT GGT GAC ACG AGG
Fimb_neilsonii ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_cephalophora ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_cinnamometorum_NSW ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_arnhemensis ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: GAC ACG AGG
Fimb_compacta AAT CGT AGC GTC TAC CGA TTT CCG CTA TTT GAA :CT GGT GAC ACG AGG
Fimb_bisumbellata ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :TA TTT GAA :CT GGT GAC ACG AGG
Fimb_cinnamometorum_WA ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_densa_WA ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_dichotoma G:: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: GGG GAC ACG AGG
Fimb_rara ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_pterygosperma_WA1 ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :GC ACG AGG
Fimb_lanceolata ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :G GAC ACG AGG
Fimb_microcarya_WA1 ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :TA TTT GAA :CT GGT GAC ACG AGG
Fimb_nutans ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_pterygosperma_NT CG:: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_microcarya_WA2 ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: TTT GAA :CT GGT GAC ACG AGG
Fimb_laxiglumis ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_polytrichoides ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_velata GG:: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: CCG AGG
Fimb_sieberiana ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :C ACG AGG
Fimb_cericea ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_ferruginea GGG G:: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_tristachya ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: GAC ACG AGG
Fimb_tetragona_WA ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_densa_NT ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_schultzii ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :A :CT GGG GGC ACG AGG
Fimb_tetragona_Qld ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_cymosa ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :C ACG AGG
Actinoschoenus_NT2 T:: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :T GGG GAC ACG AGG
Bulb_sp_nov_3 ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Bulb_sp_nov_2 ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_pterygosperma_WA2 AT:: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: TTT GAA :CT GGT GAC ACG AGG
Fimb_punctata_NT1 ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Fimb_punctata_WA ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: TTT GAA CCT GGG GAC ACG AGG
Fimb_punctata_NT1 ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::

Eleocharis_cylindrostachys ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Schoenoplectus_littoralis ::: ::: :GT CCF CTG CTC TAC CTA CTG AGC TAT CCC GAC TAT CCC CAA
Bolboschoenus_caldwellii A:TT TTC AGT CCF CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC CAC
Arthrostylis_aphylla_WA A:TT TTC AGT CCF CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
Arthrostylis_aphylla_NT ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :G AGC TAT CCC GGC TAT CCC GAC
Actinoschoenus_NT1 A:TT TTC AGT CCF CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
Actinoschoenus_WA ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :TAT CCC GGC TAT CCC GAC
Abil_oxystachya A:TT TTC AGT CCF CTG CTC TAC CAA CTG AGC TAT CCC GGC TAT CCC GAC
Abil_vaginata ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :GC TAT CCC GGC TAT ACC GAC
Abil_schoenoides ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :TAT CCC GGC TAT :CC CGA
Abil_pachptera ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :TG AGC TAT CCC GGC TAT CCC GAC
Abil_ovata ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :::
Bulb_barbata ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :TG AGC TAT CCC GGC TAT CCC GAC
Bulb_densa ::: ::: :GT CCF CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CAC GAC
Bulb_striatella ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: :TAT CCC GGC TAT :AC
Bulb_sp_nov_1 ::: ::: ::: :CF CTG CTC TCC C:A CTG AGC TAT CCC GGC TAT CCC GAC

```

Fimb_littoralis ::::: CCG AAC
 Cross_setifolia_NT_2 ::::: :A CTG AGC TAT CCC GGC TAT ACC GAC
 Cross_setifolia_NT3 ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC CA: :::::
 Cross_setifolia_NT1 ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC CA: :::::
 Fimb_neilsonii ::::: :AT CCC GAC
 Fimb_cephalophora ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_cinnamometorum_NSW ::::: :C TAT CCC GGC TAT CCC SAC
 Fimb_arnhemensis ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_compacta ATT TTC AGT CTT CTG CTC TAC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_bisumbellata ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC :::
 Fimb_cinnamometorum_WA ::::: CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_densa_WA ::::: :G AGC TAT CCC GGC TAT CCC GAC
 Fimb_dichotoma ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC :::
 Fimb_rara ::::: :A CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_pterygosperma_WA1 ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAT
 Fimb_lanceolata ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_microcarya_WA1 ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_nutans ::::: :G AGC TAT CCC GGC TAT CCC GAC
 Fimb_pterygosperma_NT ::::: :G AGC TAT CCC GGC TAT CCC GAC
 Fimb_microcarya_WA2 ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAT
 Fimb_laxiglumis ::::: :G AGC TAT CCC GGC TAT CCC GAC
 Fimb_polytrichoides ::::: :G AGC TAT CCC GGC TAT CCC GAC
 Fimb_velata ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCT :::
 Fimb_sieberiana ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC :::
 Fimb_cericea ::::: :AT CCC GAC
 Fimb_ferruginea ::::: :AT CCC GAC
 Fimb_tristachya ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_tetragona_WA ::::: :C TCC CAG CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_densa_NT ::::: :G AGC TAT CCC GGC TAT CCC GAC
 Fimb_schultzei ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_tetragona_Qld ::::: :G AGC TAT CCC GGC TAT CCC GAC
 Fimb_cynosa ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Actinoschoenus_NT2 ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Bulb_sp_nov_3 ::::: :G AGC TAT CCC GGC TAT CCC GAC
 Bulb_sp_nov_2 ::::: :G AGC TAT CCC GGC TAT CCC GAC
 Fimb_pterygosperma_WA2 ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAT
 Fimb_punctata_NT2 ::::: :C TGC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_punctata_WA ATT TTC AGT CTT CTG CTC TCC CAA CTG AGC TAT CCC GGC TAT CCC GAC
 Fimb_punctata_NT1 ::::: :C TGC CAA CTG AGC TAT CCC GGC TAT CCC GAC

 Eleocharis_cylindrostachys ::::: :G AGC TAT CCC GGC TAT CCC GAC
 Schoenoplectus_littoralis AAT TTC :TT G'G AAT CAC CT: :G: AGT' AGA ATA CTC GTA CTT ATG
 Bolboschoenus_caldwellii CAT TTC :TT G'G AAT CAC CT: :CC :GT AGA ATA CTC GTA CCT ATG
 Arthrostylis_aphylla_WA CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATT
 Arthrostylis_aphylla_NT CAT TTA :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATT
 Actinoschoenus_NT1 CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATT
 Actinoschoenus_WA CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATT
 Abil_oxystachya CTT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Abil_vaginata CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Abil_schoenoides AAT TTC :TG G'G AAT CAC TC: :CC AAT AGA ATA CTC GTA TCT ATG
 Abil_pachyptera CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Abil_ovata ::::: :T: AAT AGA ATA CTC GTA TTT ATG
 Bulb_barbata CAT TTC :TC G'G AAT CAC AT: :G: AAT AGA ATA CTC GTA TCT ATG
 Bulb_densa CAT TTC :TC G'G AAT TAC AT: :G: AAT ATA ATA CTC GTA TCT ATG
 Bulb_striatella CAT TTC :TC G'G AAT CAC AT: :GC AAT AGA ATA CTC GTA TCT ATG
 Bulb_sp_nov_1 CAT TTC :TC G'G AAT CAC AT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_littoralis CAT TTC :TC G'G AAT CAC CT: :CC AAT AGA ATA CTC GTA TCT ATG
 Cross_setifolia_NT_2 CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Cross_setifolia_NT3 ::::: TTT TTC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Cross_setifolia_NT1 ::::: TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_neilsonii CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_cephalophora CNT TTT :TN GCG AAT CCC CT: :G: AAT AGA ATA CTC GTA TTT ATG
 Fimb_cinnamometorum_NSW CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TTT TAG
 Fimb_arnhemensis CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_compacta CTT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATT
 Fimb_bisumbellata ::::: :TC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_cinnamometorum_WA CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TTT TAG
 Fimb_densa_WA ::::: :G AGC TAT CCC GGC TAT CCC GAC
 Fimb_dichotoma ::::: :TC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_rara CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_pterygosperma_WA1 CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_lanceolata CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_microcarya_WA1 CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_nutans CAT TTC :TC G'G AAT CAC TT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_pterygosperma_NT CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_microcarya_WA2 CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG
 Fimb_laxiglumis CAT TTC :TC G'G AAT CAC CT: :G: AAT AGA ATA CTC GTA TCT ATG

| | |
|----------------------------|--|
| Bolboschoenus_caldwellii | ::: :AG :CC CAA CAA AAA ATT PAT TCA A:: :::: ::: :A AAA ATT GAA |
| Arthrostylis_aphylla_WA | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA AGT |
| Arthrostylis_aphylla_NT | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Actinoschoenus_NT1 | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Actinoschoenus_WA | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Abil_oxystachya | ::: :AA :CC TAA TAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Abil_vaginata | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Abil_schoenoides | ::: :AA :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Abil_pachptera | ::: :AG :CC TAA CAA AAA ATT GAT TCA AAA AAA AAG TCA AAA AAA :GT |
| Abil_ovata | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Bulb_barbata | ATT GAG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA AGT |
| Bulb_densa | ::: :AG :TC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Bulb_striatella | ::: :AG :TC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Bulb_sp_nov_1 | ::: :AG :TC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_littoralis | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Cross_setifolia_NT_2 | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA AGT |
| Cross_setifolia_NT3 | ::: :AG :CC TAA CAA AAA ATT GAA TAA A:: :::: ::: :A AAA AAA :GT |
| Cross_setifolia_NT1 | ::: :AG :CC TAA CAA AAA ATT GAA TAA A:: :::: ::: :A AAA AAA :GT |
| Fimb_neilsonii | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_cephalophora | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_cinnamometorum_NSW | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_arnhemensis | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_compacta | ::: :AA :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_bisumbellata | ::: :::: ::: :A CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_cinnamometorum_WA | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_densa_WA | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_dichotoma | ::: :::: ::: :A CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_rara | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_pterygosperma_WA1 | ::: :AG :CC TAA CAA AAA ACT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_lanceolata | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_microcarya_WA1 | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_nutans | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_pterygosperma_NT | ::: :AG :CC TAA CAA AAA ACT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_microcarya_WA2 | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_laxiglumis | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_polytrichoides | ::: :::: ::: :A AT CAA AAA ATT GAT TC: A:: :::: ::: :A AAA AAA :GT |
| Fimb_velata | ::: :::: ::: :A AT CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_sieberiana | ::: :::: ::: :AG CAA AAA ATT GAT TC: A:: :::: ::: :A AAA AAA :GT |
| Fimb_cericea | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_ferruginea | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_tristachya | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_tetragona_WA | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_densa_NT | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_schultzii | ::: :AG :CC TAA CAA AAA ATT GAT TCA AAA AAA AAG TCA AAA AAA :GT |
| Fimb_tetragona_Qld | ::: :::: ::: ::: CAA AAA ATT GAT TC: A:: :::: ::: :A AAA AAA :GT |
| Fimb_cymosa | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Actinoschoenus_NT2 | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Bulb_sp_nov_3 | ::: :AG :TC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Bulb_sp_nov_2 | ::: :AG :TC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_pterygosperma_WA2 | ::: :AG :CC TAA CAA AAA ACT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_punctata_NT1 | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_punctata_WA | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Fimb_punctata_NT1 | ::: :AG :CC TAA CAA AAA ATT GAT TCA A:: :::: ::: :A AAA AAA :GT |
| Eleocharis_cylindrostachys | CAA ATT GAA GAT ATT TGA CA: :::: ::: ::: ::: :T TTT |
| Schoenoplectus_littoralis | TAG :::: ::: TAA :AT :G: TTA AGA TAT TGA TAT :::: ::: :T TAT |
| Bolboschoenus_caldwellii | TAG :::: ::: TCA :AT :G: TTA AGA TAT TGA TAT TAA ATT GAT ATT TAT |
| Arthrostylis_aphylla_WA | CAA TGT TTA TAA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Arthrostylis_aphylla_NT | CAA TGT TAA TAA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Actinoschoenus_NT1 | CAA TGT TAA TAA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Actinoschoenus_WA | CAA TGT TAA TAA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Abil_oxystachya | CAA TGT TAA GCA TAT TTA TA: :::: ::: ::: ::: :T TAT |
| Abil_vaginata | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Abil_schoenoides | CAA TGT TAA GCA TAT TTA TA: :::: ::: ::: ::: :T TAT |
| Abil_pachptera | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Abil_ovata | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Bulb_barbata | CAA TGT TAA GCA TAT TGA CA: :::: ::: ::: ::: :T TAT |
| Bulb_densa | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Bulb_striatella | CAA TGT TAA GCA TAT TTA TTA AGC ATA TTA TAT :::: ::: :A TAT |
| Bulb_sp_nov_1 | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :C TAT |
| Fimb_littoralis | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Cross_setifolia_NT_2 | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Cross_setifolia_NT3 | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Cross_setifolia_NT1 | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Fimb_neilsonii | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Fimb_cephalophora | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :T TAT |
| Fimb_cinnamometorum_NSW | CAA TGT TAA GCA TAT TGA TA: :::: ::: ::: ::: :T TAT |

| | |
|----------------------------|--|
| Fimb_densa_NT | TG: ::: GTA AFA ATA AT: ::: ATA TAG AGA TTT TTA TCA TAT GCT TAG |
| Fimb_schultzii | TG: ::: GTA AFG ATC AT: ::: ATA TAG AGA TTT TTA TCA TAT GCT TAG |
| Fimb_tetragona_Qld | TG: ::: GTA AFG ATA AT: ::: ATC TAG AGA TTT TTA TCA TAT GCT TAG |
| Fimb_cymosa | TG: ::: GTA AFG ATA GT: ::: ATA TAG AGA TTT TTA TCA TAG GCT TAG |
| Actirischoenus_NT2 | TG: ::: GTA AFA ATA :T: CAC CAA TAG AGA TTT TTT GCA TAT GCT TAG |
| Bulb_sp_nov_3 | TG: ::: GTA AFA ATA :T: CA: ATA TAG AGA TTT ATT GCA TAT GCT TAG |
| Bulb_sp_nov_2 | TG: ::: GTA AFA ATA :T: CA: ATA TAG AGA TTT ATT GCA TAT GCT TAG |
| Fimb_pterygosperma_WA2 | TG: ::: GTA TTT CTA AT: ::: ATA TAG AGA TTT TTA TCA TAT GCT TAG |
| Fimb_punctata_NT2 | TG: ::: GTA AFG ATA AT: ::: ATA TAG AGA TTT TTA TCA TAT GCT TAG |
| Fimb_punctata_WA | TG: ::: GTA AFG ATA AT: ::: ATC TAG AGA TTT TTA TCA TAT GCT TAG |
| Fimb_punctata_NT1 | TG: ::: GTA AFG ATA AT: ::: ATA TAG AGA TTT TTA TCA TAT GCT TAG |
| Eleocharis_cylindrostachys | CTT TTC ATA ASA TAA GAT ATN GAT TAT GAA ATT CAT ATT TAT ACG AAT |
| Schoenoplectus_littoralis | ATT TT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Bolboschoenus_caldwellii | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Arthrostylis_aphylla_WA | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Arthrostylis_aphylla_NT | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Actinoschoenus_NT1 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Actinoschoenus_WA | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Abil_oxystachya | ATT AT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Abil_vaginata | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Abil_schoenoides | ATT AT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Abil_pachptera | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Abil_ovata | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Bulb_barbata | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Bulb_densa | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Bulb_striatella | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Bulb_sp_nov_1 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_littoralis | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Cross_setifolia_NT_2 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Cross_setifolia_NT3 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Cross_setifolia_NT1 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_neilsonii | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_cephalophora | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_cinnamometorum_NSW | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_arnhemensis | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_compacta | ATT AT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_bisunbellata | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_cinnamometorum_WA | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_densa_WA | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_dichotoma | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_rara | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_pterygosperma_WA1 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_lanceolata | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_microcarya_WA1 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_nutaas | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_pterygosperma_NT | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_microcarya_WA2 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_laxiglumis | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_polytrichoides | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_velata | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_sieberiana | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_cericea | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_ferruginea | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_tristachya | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_tetragona_WA | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_densa_NT | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_schultzii | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_tetragona_Qld | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_cymosa | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Actinischoenus_NT2 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Bulb_sp_nov_3 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Bulb_sp_nov_2 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_pterygosperma_WA2 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_punctata_NT2 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_punctata_WA | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_punctata_NT1 | ATT CT: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Eleocharis_cylindrostachys | TTA TAA TAT ATT TAT TAT ATT :A AT: ::: ::: ::: ::: ::: ::: ::: |
| Schoenoplectus_littoralis | ::: ::: ::: : : : TTT C: |
| Bolboschoenus_caldwellii | ::: ::: ::: : : : TTT C: |
| Arthrostylis_aphylla_WA | ::: ::: ::: : : : TTT C: |
| Arthrostylis_aphylla_NT | ::: ::: ::: : : : TTT C: |
| Actinoschoenus_NT1 | ::: ::: ::: : : : TTT C: |
| Actinoschoenus_WA | ::: ::: ::: : : : TTT C: |
| Abil_oxystachya | ::: ::: ::: : : : TTT ATC :T AA: : : : : : : : : : : : : : : : : |
| Abil_vaginata | ::: ::: ::: : : : TTT CTT :A AT: : : : : : : : : : : : : : : : : |

| | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Fimb_pterygosperma_WA1 | :AT | ::: | :TA | TA: | ::: | ::: | :TA | A:G | AAT | ATA | TAA | TAT | AAT | ATA | TTC | TA: |
| Fimb_lanceolata | :TT | ::: | :TA | T: | ::: | ::: | :TA | T:T | AAG | AAT | TAA | TAG | ATA | TAI | ATA | TCT |
| Fimb_microcarya_WA1 | :AT | ::: | :TA | T: | ::: | ::: | :TA | T:T | AAT | ATA | TAA | TAG | ATA | TAT | ATA | TTA |
| Fimb_nutans | :AT | ::: | :TA | TA: | ::: | ::: | :TA | A:G | AAT | ATA | TAA | TAT | C: | ::: | ::: | ::: |
| Fimb_pterygosperma_NT | :AT | ::: | :TA | TA: | ::: | ::: | :TA | A:G | AAT | ATA | TAA | TAT | AAT | ATA | TTC | TAT |
| Fimb_microcarya_WA2 | :AT | ::: | :TA | T: | ::: | ::: | :TA | T:T | AAT | ATA | TAA | TAG | ATA | TAT | ATA | TTA |
| Fimb_laxiglumis | :AT | ::: | :TA | T: | ::: | ::: | :TA | T:T | AAT | ATA | TAA | TAG | ATA | TAT | TA: | ::: |
| Fimb_polytrichoides | AAT | ::: | :TA | T: | ::: | ::: | :TA | T:T | AAT | AGA | TAA | TAT | AGA | TAT | TAA | TAT |
| Fimb_velata | :AT | ::: | :TA | T: | ::: | ::: | :TA | T:T | AAT | AGA | TAA | TAG | ATA | TAT | ATA | TAT |
| Fimb_sieberiana | :AT | ::: | :TA | T: | ::: | ::: | :TA | T:T | AAT | ATA | TAA | TAG | ATA | TAT | TA: | ::: |
| Fimb_cericea | :TT | ::: | :TA | T: | ::: | ::: | :TA | T:T | AAA | AAA | AAA | TAG | ATA | TAT | ATA | TAT |
| Fimb_ferruginea | :AT | ::: | :TA | TA: | ::: | ::: | :AA | A:T | ATT | ATA | TAA | TAT | TTT | ATT | ATA | TA: |
| Fimb_tristachya | :AT | ::: | :TA | T: | ::: | ::: | :TA | TCT | ATA | TTA | ::: | :AG | ATA | TAG | ATA | TAT |
| Fimb_tetragona_WA | :CT | ::: | :TA | TA: | ::: | ::: | :TA | A:G | AAG | ATA | ::: | ::: | ::: | ::: | ATA | TAT |
| Fimb_densa_NT | :AT | ::: | :TA | TA: | ::: | ::: | :TA | T:A | TAT | ATA | GAT | ::: | ::: | AAT | ATA | TTA |
| Fimb_schultzii | :A: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_tetragona_Qld | :CT | ::: | :TA | TA: | ::: | ::: | :TA | A:G | AAG | ATA | ::: | ::: | ::: | ::: | ATA | TAT |
| Fimb_cymosa | :TT | ::: | :TA | T: | ::: | ::: | :TA | T:T | AAG | AAT | TAA | TAG | ATA | TAT | ATA | TCT |
| Actinischoenus_NT2 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Bulb_sp_nov_3 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Bulb_sp_nov_2 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_pterygosperma_WA2 | :AT | ::: | :TA | TA: | ::: | ::: | :TA | A:G | AAT | ATA | TAA | TAT | AAT | ATA | TTC | ::: |
| Fimb_punctata_NT2 | :AT | ::: | :TA | TA: | ::: | ::: | :TA | A:T | AAT | A: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_punctata_WA | :AT | ::: | :TA | TA: | ::: | ::: | :TA | A:T | AAT | A: | ::: | ::: | ::: | :AT | ATA | TTC |
| Fimb_punctata_NT1 | :AT | ::: | :TA | TA: | ::: | ::: | :TA | A:T | AAT | A: | ::: | ::: | ::: | ::: | ::: | ::: |
| Eleocharis_cylindrostachys | TAT | CTA | TAT | ATT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Schoenoplectus_littoralis | ::: | :AT | ATG | CCT | CTA | CTT | ::: | ::: | ::: | ::: | TAA | TAG | A: | ::: | GCA | TAT |
| Bolboschoenus_caldwellii | ::: | :AT | ATA | CCT | ATA | TTT | ::: | ::: | ::: | ::: | TAA | TAT | A: | ::: | :AG | TAT |
| Arthrostylis_aphylla_WA | ::: | :AT | ATT | CCT | ATA | TAT | ::: | ::: | ::: | ::: | GAA | TAT | A: | ::: | :TA | TTC |
| Arthrostylis_aphylla_NT | ::: | :AT | ATT | CCT | ATA | TAT | ::: | ::: | ::: | ::: | GAA | TAT | A: | ::: | :TA | TTC |
| Actinischoenus_NT1 | ::: | :AT | ATT | CCT | ATA | TAT | ::: | ::: | ::: | ::: | GAA | TAT | A: | ::: | ::: | ::: |
| Actinischoenus_WA | ::: | :AT | ATT | CCT | ATA | TAT | ::: | ::: | ::: | ::: | GAA | TAT | A: | ::: | :TA | TTC |
| Abil_oxystachya | TAT | ATA | TTT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Abil_vaginata | AAT | ATA | TTT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Abil_schoenoides | TAT | ATT | TTT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Abil_pachyptera | TAT | ATA | TAT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Abil_ovata | TAT | ATA | TTT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Bulb_barbata | ::: | :AT | ATT | CCT | TGA | AGA | AGA | GGA | AGA | AGA | GAA | TAT | A: | ::: | :TA | TAT |
| Bulb_densa | ::: | :AT | ATT | CCT | TTC | TTT | GAA | AAA | AAA | AAA | ::: | ::: | ::: | ::: | :TA | TAT |
| Bulb_striatella | ::: | :AT | ATT | CCT | TTC | TTT | ::: | ::: | ::: | ::: | TAA | TAT | A: | ::: | :TA | TAT |
| Bulb_sp_nov_1 | ::: | :AT | ATT | CCT | TGA | AGA | ATA | ::: | ::: | ::: | GAA | TAT | A: | ::: | :TA | TAT |
| Fimb_littoralis | ::: | :AT | ATT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Cross_setifolia_NT_2 | ::: | :AT | ATT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Cross_setifolia_NT3 | ::: | T | ATA | TAT | ACT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Cross_setifolia_NT1 | ::: | T | ATA | TAT | ACT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_neilsonianii | ::: | T | ATA | TAT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_cephalophora | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_cinnamometorum_NSW | ::: | :AT | ATA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_arnhemensis | TAT | ATA | TAT | ACT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_compacta | TTT | ATA | TTT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_bisumbellata | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_cinnamometorum_WA | ::: | :AT | ATA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_densa_WA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_dichotoma | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_rara | ::: | :AT | ATA | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_pterygosperma_WA1 | ::: | :A | TAT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_lanceolata | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_microcarya_WA1 | TAT | ATA | GAT | ACT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_nutans | TAT | ATA | TAT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_pterygosperma_NT | TAT | AAT | ATT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_microcarya_WA2 | TAT | ATA | GAT | ACT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_laxiglumis | ::: | :T | ATT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_polytrichoides | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_velata | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_sieberiana | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_cericea | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_ferruginea | ::: | :AT | ATA | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_tristachya | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_tetragona_WA | ::: | :AT | ATA | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_densa_NT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_schultzii | TAT | ATA | TAT | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_tetragona_Qld | ::: | :AT | ATA | TCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_cymosa | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Actinischoenus_NT2 | ::: | :AT | ATT | CCT | ATA | TAT | ::: | ::: | ::: | GAA | TAT | A: | ::: | :TA | TTC | |
| Bulb_sp_nov_3 | ::: | :AT | ATT | CCT | TGA | AGA | ATA | ::: | ::: | GAA | TAT | A: | ::: | :TA | TAT | |
| Bulb_sp_nov_2 | ::: | :AT | ATT | CCT | TGA | AGA | ATA | ::: | ::: | GAA | TAT | A: | ::: | :TA | TAT | |

| | |
|----------------------------|--|
| Bolboschoenus_caldwellii | GAT CT: ::::AT TTT CCA AAT ::G :AC AAA ATA GAA TGA ATT A:: ::: |
| Arthrostylis_aphylla_WA | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Arthrostylis_aphylla_NT | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Actinoschoenus_Nf1 | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Actinoschoenus_WA | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Abil_oxystachya | ::: ::: ::: ::: TTA CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Abil_vaginata | AAT CT: ::::AT TTT TCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Abil_schoenoides | ::: ::: ::: ::: TTA CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Abil_pachptera | AAT CT: ::::AT TTT CCA CAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Abil_ovata | AAT CT: ::::AT TTT TCA AAT ::G :AA AAA ATA GAA TGA ATT AGA AAG |
| Bulb_barbata | TCT ATT TGC CTT TTT CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Bulb_densa | TCT ATT TGC C:: ::: :A AAT ::G :AG AAA ATT GAA TGA ATT AGA ::: |
| Bulb_striatella | AAT CA: ::::AT TTT CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Bulb_sp_nov_1 | TCT ATT TGC CAT TTT CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Fimb_littoralis | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Cross_setifolia_NT_2 | AAT CT: ::::AT TTT TCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Cross_setifolia_NT3 | AAT CT: ::::AT TTT TCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Cross_setifolia_NT1 | AAT CT: ::::AT TTT TCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_neilsonii | AAT CT: ::::AT TTT TCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_cephalophora | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_cinnamometorum_NSW | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_arnhemensis | AAT CT: ::::AT TTT TCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_compacta | ::: ::: ::: ::: TTA CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Fimb_bisumbellata | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_cinnamometorum_WA | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_densa_WA | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_dichotoma | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_rara | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_pterygosperma_WA1 | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_lanceolata | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_microcarya_WA1 | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_nutans | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_pterygosperma_NT | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_microcarya_WA2 | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_laxiglumis | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_polytrichoides | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_velata | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_sieberiana | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_pericea | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_ferruginea | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_tristachya | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_tetragona_WA | AAT CT: ::::AT TTT CCA :AT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_densa_NT | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_schultzii | AAT CT: ::::AT TTT CCA CAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_tetragona_Qld | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_cymosa | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Actinoschoenus_NT2 | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Bulb_sp_nov_3 | TCT ATT TGC CTT TTT CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Bulb_sp_nov_2 | TCT ATT TGC CTT TTT CCA AAT ::G :AA AAA ATT GAA TGA ATT AGA ::: |
| Fimb_pterygosperma_WA2 | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_punctata_NT2 | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_punctata_WA | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Fimb_punctata_NT1 | AAT CT: ::::AT TTT CCA AAT ::G :AA AAA ATA GAA TGA ATT AGA ::: |
| Eleocharis_cylindrostachys | T:A AGT T:A ATT ::: ::: A:: ::: TAG TGA A:T TTT TTT TC: :AC TTT |
| Schoenoplectus_littoralis | ::: ::: GAA ACT ::: ::: A:: ::: TAG TGA A:T TTT TTT TT: :AC TTT |
| Bolboschoenus_caldwellii | ::: ::: GAA ACT ::: ::: A:: ::: TAG TGA A:T TTT TTT TTT CAC TTT |
| Arthrostylis_aphylla_WA | :::A AGT GAA ACT ::: ::: A:: ::: TAG TGA ATT TTT TTT TT: :AC TTT |
| Arthrostylis_aphylla_NT | :::A AGT GAA ACT ::: ::: A:: ::: TAG TGA ATT TTT TTT TT: :AC TTT |
| Actinoschoenus_NT1 | :::A AGT GAA ACT ::: ::: A:: ::: TAG TGA A:T TTT TTT TT: :AC TTT |
| Actinoschoenus_WA | :::A AGT GAA ACT ::: ::: A:: ::: TAG TGA ATT TTT TTT TT: :AC TTT |
| Abil_oxystachya | :::A AGT GAA ACT ::: ::: A:: ::: TAA TGA AAT TTT TTT ::: GAA TTT |
| Abil_vaginata | :::A AGT GAA ACT ::: ::: A:: ::: TAA TGA AAT TTT TTT ::: AAC TT: |
| Abil_schoenoides | :::A AGT GAA ACT ::: ::: A:: ::: TAA TGA AAT TTT TTT ::: GAA TTT |
| Abil_pachptera | :::A AGT GAA ACT ::: ::: A:: ::: TAA TGA AAT TTT TTT ::: AAC TTT |
| Abil_ovata | TGA AGT GAA ACT ::: ::: A:: ::: TAA TGA AAT TTT TTT ::: AAC TTT |
| Bulb_barbata | :::A AGT GAA ACT GAA AGT ATA GTG TAG TGA A:: TTT TTT TT: CAC TTT |
| Bulb_densa | :::A AGT GAA ACT ::: ::: A:: ::: TAG TGA A:T TTT TTT TT: CAC TTT |
| Bulb_striatella | :::A AGT GAA ACT GAA AGT A:: ::: TAG TGA A:T TTT TTT TT: CAC TTT |
| Bulb_sp_nov_1 | :::A AGT GAA ACT ::: ::: A:: ::: TAG TGA A:: TTT TTT TT: CAC TTT |
| Fimb_littoralis | :::A AGT GAA ACT ::: ::: A:: ::: TAA TGA AAT TTT TTT ::: CAC TTT |
| Cross_setifolia_NT_2 | :::A AGT GAA ACT ::: ::: A:: ::: TAA TGA AAT TTT TTT ::: AAC TT: |
| Cross_setifolia_NT3 | :::A AGT GAA ACT ::: ::: A:: ::: TAA TGA AAT TTT TTT ::: AAC TT: |
| Cross_setifolia_NT1 | :::A AGT GAA ACT ::: ::: A:: ::: TAA TGA AAT TTT TTT ::: AAC TT: |
| Fimb_neilsonii | :::A AGT GAA ACT ::: ::: A:: ::: TAA TGA AAT TTT TTT ::: AAC TTT |
| Fimb_cephalophora | :::A AGT GAA ACT ::: ::: A:: ::: TAA TGA ATT TTT TTT ::: CAC TTT |
| Fimb_cinnamometorum_NSW | :::A AGT GAA ACT ::: ::: A:: ::: TAA TGA AAT TTT TTT ::: CAC TTT |

| | |
|----------------------------|--|
| Fimb_arnhemensis | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_compacta | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA GAT TTT TTT :::: GAA TTT |
| Fimb_bisumbellata | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTT :::: CAC TTT |
| Fimb_cinnamometorum_WA | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TT:: :::: CAC TTT |
| Fimb_densa_WA | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_dichotoma | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA GAT TTT TTT :::: CAC TTT |
| Fimb_rara | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_pterygosperma_WA1 | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_lanceolata | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA GAT TTT TTT :::: CAC TTT |
| Fimb_microcarya_WA1 | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTT :::: CAC TTT |
| Fimb_nutans | :::A AGT GAA AAT :::: ::: A:: ::: TAG TGA AAT TTT TTG :::: AAC TTT |
| Fimb_pterygosperma_NT | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_microcarya_WA2 | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTT :::: CAC TTT |
| Fimb_laxiglumis | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTT :::: CAC TTT |
| Fimb_polytrichoides | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA GAT TTT TTT :::: CAC TTT |
| Fimb_velata | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA GAT TTT TTT :::: CAC TTT |
| Fimb_sieberiana | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTT :::: CAC TTT |
| Fimb_cericea | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA ATT TTT TTT :::: CAC TTT |
| Fimb_ferruginea | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_tristachya | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA GAT TTT TTT :::: CAC TTT |
| Fimb_tetragona_WA | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_densa_NT | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_schultzii | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_tetragona_Qld | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_cymosa | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA GAT TTT TTT :::: CAC TTT |
| Actinoschoenus_NT2 | :::A AGT GAA AAT :::: ::: A:: ::: TAG TGA A:T TTT TTT TT: :AC TTT |
| Bulb_sp_ncv_3 | :::A AGT GAA AAT :::: ::: A:: ::: TAG TGA A:: TTT TTT TT: CAC TTT |
| Bulb_sp_ncv_2 | :::A AGT GAA AAT :::: ::: A:: ::: TAG TGA A:: TTT TTT TT: CAC TTT |
| Fimb_pterygosperma_WA2 | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_punctata_NT2 | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_punctata_WA | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| Fimb_punctata_NT1 | :::A AGT GAA AAT :::: ::: A:: ::: TAA TGA AAT TTT TTG :::: AAC TTT |
| | |
| Eleccharis_cylindrostachys | TTT :::: ATC A:AA AAA :::: ::: :AA AG: :::: ::: ::: ::: :AA GAA ATG |
| Schoenoplectus_littoralis | TTC :::: ATC A:AA AAA :::: ::: :AA AAA AGA AAG TGA AAA AAA AAA AAG |
| Bolboschoenus_saldwellii | TTC :::: ATC A:AA A:: TC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Arthrostylis_aphylla_WA | TTC :::: ATC A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Arthrostylis_aphylla_NT | TTC :::: ATC A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Actinoschoenus_NT1 | TTC :::: ATC A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Actinoschoenus_WA | TTC :::: ATC A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Abil_oxystachya | TTC :::: ATA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Abil_vaginata | ::: :AA AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Abil_schoenoides | TTC :::: ATA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Abil_pachptera | TTC :::: AAA A:AA AA: CA: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Abil_ovata | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Bulb_barbata | TTC :::: ATC A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Bulb_densa | TTC :::: ATC A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Bulb_striatella | TTG :::: ATC A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Bulb_sp_nov_1 | TTC :::: ATC A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_littoralis | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Cross_setifolia_NT_2 | ::: :AA AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Cross_setifolia_NT3 | ::: :AA AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Cross_setifolia_NT1 | ::: :AA AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_neilsonii | TTC :::: AAA A:AA AA: CCA AAA TAA AG: :::: ::: ::: ::: ::: :AA ATA AAG AAG |
| Fimb_cephalophora | TTC :AA AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: TAA ATA AAG AAG |
| Fimb_cinnamometorum_NSW | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_arnhemensis | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_compacta | TTC :::A AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_bisumbellata | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_cinnamometorum_WA | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATT AAG AAG |
| Fimb_densa_WA | TTC :AA CAA A:AA AA: CCA AAA TAA AG: :::: ::: ::: ::: ::: :AA AAA ATA |
| Fimb_dichotoma | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_rara | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_pterygosperma_WA1 | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAA |
| Fimb_lanceolata | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_microcarya_WA1 | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_nutans | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_pterygosperma_NT | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAA |
| Fimb_microcarya_WA2 | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_laxiglumis | TTC :::: AAA A:AA AA: TC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_polytrichoides | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_velata | TTC :::A AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_sieberiana | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_cericea | TTC :AA AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: TAA ATA AAG AAG |
| Fimb_ferruginea | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_tristachya | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA ATA AAG AAG |
| Fimb_tetragona_WA | TTC :::: AAA A:AA AA: CC: :::: ::: ::: ::: ::: ::: AAA AGA AAG AAG |

| | | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Fimb_densa_NT | TTC | :AA | CAA | AAA | AA: | CCA | AAA | TAA | AG: | ::: | ::: | ::: | ::: | :AA | APA | ATA | |
| Fimb_schultzii | TTC | ::: | AAA | AAA | AA: | CA: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAA | ATA | AAG | AAG |
| Fimb_tetragona_Qld | TTC | ::: | AAA | AAA | AA: | CC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAA | AGA | AAG | AAG |
| Fimb_cymosa | TTC | ::: | AAA | AAA | AA: | CC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAA | ATA | AAG | AAG |
| Actinischoenus_NT2 | TTC | ::: | ATC | AAA | AA: | CC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAA | ATA | AAG | AAG |
| Bulb_sp_nov_3 | TTC | ::: | ATC | AAA | AA: | CC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAA | ATA | AAG | AAG |
| Bulb_sp_nov_2 | TTC | ::: | ATC | AAA | AA: | CC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAA | ATA | AAG | AAG |
| Fimb_pterygosperma_WA2 | TTC | ::: | AAA | AAA | AA: | CC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAA | ATA | AAG | AAA |
| Fimb_punctata_NT1 | TTC | ::: | AAA | AAA | AA: | CC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAA | ATA | AAG | AAG |
| Fimb_punctata_WA | TTC | ::: | AAA | AAA | AA: | CC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAA | ATA | AAG | AAG |
| Fimb_punctata_NT1 | TTC | ::: | AAA | AAA | AA: | CC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAA | ATA | AAG | AAG |
| Eleocharis_cylindrostachys | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Schoenoplectus_littoralis | AAA | AAT | TTA | GGA | AAT | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Bolboschoenus_caldwellii | AAA | AAT | TTA | GGA | AAT | CAA | ATG | GGC | TTT | TTA | CAA | ATG | GGC | ::: | ::: | TTT | |
| Arthrostylis_aphylla_WA | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Arthrostylis_aphylla_NT | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Actinoschoenus_NT1 | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Actinoschoenus_WA | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Abil_oxystachya | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Abil_vaginata | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Abil_schoenoides | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Abil_pachptera | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Abil_ovata | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Bulb_barbata | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Bulb_densa | AAA | TAT | TTA | GGA | AAA | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Bulb_striatella | AAA | TAT | TTA | GGA | AAA | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Bulb_sp_nov_1 | AAA | TAT | TTA | GGA | AAA | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_littoralis | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Cross_setifolia_NT_2 | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Cross_setifolia_NT3 | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Cross_setifolia_NT1 | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_neilsonii | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_cephalophora | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_cinnamometorum_NSW | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_anhemensis | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_compacta | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_bisumbellata | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_cinnamometorum_WA | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_densa_WA | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_dichotoma | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_rara | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_pterygosperma_WA1 | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_lanceolata | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_microcarya_WA1 | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_rutans | AAA | TCT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_pterygosperma_NT | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_microcarya_WA2 | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_laxiglumis | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_polytrichoides | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_velata | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_sieberiana | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_sericea | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_ferruginea | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_tristachya | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_tetragona_WA | AAA | TAT | TTA | GGA | AAT | CGA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | TTT | TTA | TTT | |
| Fimb_densa_NT | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_schultzii | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_tetragona_Qld | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | TTT | TTA | TTT | |
| Fimb_cymosa | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Actinischoenus_NT2 | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Bulb_sp_nov_3 | AAA | TAT | TTA | GTA | AAA | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Bulb_sp_nov_2 | AAA | TAT | TTA | GTA | AAA | CAA | ATG | GGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_pterygosperma_WA2 | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_punctata_NT2 | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_punctata_WA | AAA | TAT | TTA | GGA | AAT | AAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Fimb_punctata_NT1 | AAA | TAT | TTA | GGA | AAT | CAA | ATG | GAC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | TTT | |
| Eleocharis_cylindrostachys | CT: | TTT | GGG | GAT | AGA | GGG | ACT | TGA | ACC | CTC | ACG | ATT | CAA | AAA | A:T | CGA | |
| Schoenoplectus_littoralis | TT: | ATT | GGG | GAT | AGA | GGG | ACT | TGA | ACC | CTC | ATG | ATT | TAA | AAA | A:T | CGA | |
| Bolboschoenus_caldwellii | TT: | ATT | GGG | GAT | AGA | GGG | ACT | TGA | ACC | CTC | ATG | ATT | TAA | AAA | A:T | CGA | |
| Arthrostylis_aphylla_WA | TT: | ATT | GGG | GAT | AGA | GGG | ACT | TGA | ACC | CTC | ATG | ATT | TCA | AAA | A:T | CGA | |
| Arthrostylis_aphylla_NT | TT: | ATT | GGG | GAT | AGA | GGG | ACT | TGA | ACC | CTC | ATG | ATT | TCA | AAA | A:T | CGA | |
| Actinoschoenus_NT1 | TT: | ATT | GGG | GAT | AGA | GGG | ACT | TGA | ACC | CTC | ATG | ATT | TCA | AAA | A:T | CGA | |
| Actinoschoenus_WA | TT: | ATT | GGG | GAT | AGA | GGG | ACT | TGA | ACC | CTC | ATG | ATT | TCA | AAA | A:T | CGA | |
| Abil_oxystachya | TT: | ATT | GGG | GAT | AGA | GGG | ACT | TGA | ACC | CTC | ATG | ATT | TCA | AAA | A:T | CGA | |
| Abil_vaginata | TT: | ATT | GGG | GAT | AGA | GGG | ACT | TGA | ACC | CTC | ATG | ATT | TCA | AAA | A:T | CGA | |

| | |
|----------------------------|---|
| Abil_schoenoides | TT: ATT GGG GAT AGA GGG ACT CGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Abil_pachptera | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Abil_ovata | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Bulb_barbata | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Bulb_densa | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Bulb_striatella | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Bulb_sp_nov_1 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_littoralis | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Cross_setifolia_NT_2 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGC |
| Cross_setifolia_NT3 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Cross_setifolia_NT1 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_neilsonii | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_cephalophora | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_cinnamometorum_NSW | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_arnhemensis | TT: ATT GGG GAT AGA GGG ACT TGA :CC CTC ATG ATT TCA AAA A:T CG: |
| Fimb_compacta | TT: ATT GGG GAT AGA GGG ACT CGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_bisumbellata | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_cinnamometorum_WA | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_densa_WA | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_dichotoma | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_rara | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_pterygosperma_WA1 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_lanceolata | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_microcarya_WA1 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_nutans | TT: TTT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_pterygosperma_NT | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_microcarya_WA2 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_laxiglumis | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_polytrichoides | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_velata | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_sieberiana | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_cerisea | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_ferruginea | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG A:T TCA AAA A:T CGA |
| Fimb_tristachya | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_tetragona_WA | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_densa_NT | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_schultzii | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_tetragona_Qld | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_cymosa | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Actinischoenus_NT2 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Bulb_sp_nov_3 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Bulb_sp_nov_2 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_pterygosperma_WA2 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_punctata_NT2 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_punctata_WA | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Fimb_punctata_NT1 | TT: ATT GGG GAT AGA GGG ACT TGA ACC CTC ATG ATT TCA AAA A:T CGA |
| Eleocharis_cylindrostachys | C:G GAT TTT CTT CTT ACT AGA AAT TTC ATT GTT GTC AAT ATT GAC ATG |
| Schoenoplectus_littoralis | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Bolboschoenus_caldwellii | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC AAT ATT GAC ATG |
| Arthrostylis_aphylla_WA | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Arthrostylis_aphylla_NT | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Actinoschoenus_NT1 | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Actinoschoenus_WA | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Abil_oxystachya | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Abil_vaginata | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Abil_schoenoides | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Abil_pachptera | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Abil_ovata | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Bulb_barbata | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Bulb_densa | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT TTT GTC GAT ATT GAC ATG |
| Bulb_striatella | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Bulb_sp_nov_1 | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Fimb_littoralis | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Cross_setifolia_NT_2 | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT G:C GAT ATT GAC ATG |
| Cross_setifolia_NT3 | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Cross_setifolia_NT1 | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Fimb_neilsonii | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Fimb_cephalophora | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Fimb_cinnamometorum_NSW | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Fimb_arnhemensis | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Fimb_compacta | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Fimb_bisumbellata | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC AAT ATT GAC ATG |
| Fimb_cinnamometorum_WA | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Fimb_densa_WA | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Fimb_dichotoma | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |
| Fimb_rara | C:G GAT TTT CTT CTT ACT ATA AAT TTC ATT GTT GTC GAT ATT GAC ATG |

| | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Fimb_pterygosperma_WA1 | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_lanceolata | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_microcarya_WA1 | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_nutans | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_pterygosperma_NT | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_microcarya_WA2 | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_laxiglumis | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_polytrichoides | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_velata | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_sieberiana | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_cericea | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_ferruginea | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_tristachya | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_tetragona_WA | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_densa_NT | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_schultzii | CGG | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_tetragona_Qld | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_cymosa | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Actinischoenus_NT2 | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Bulb_sp_nov_3 | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Bulb_sp_nov_2 | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_pterygosperma_WA2 | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_punctata_NT2 | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_punctata_WA | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Fimb_punctata_NT1 | C:G | GAT | TTT | CCT | CTT | ACT | ATA | AAT | TTC | ATT | GTT | GTC | GAT | ATT | GAC | ATG |
| Eleocharis_cylindrostachys | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTT | A:: | ::A | TTT | AAA | TTA |
| Schoenoplectus_littoralis | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTG | A:: | ::T | TTA | TCA | TCA |
| Bolboschoenus_caldwellii | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTG | A:: | ::T | TTA | TCA | TCA |
| Arthrostylis_aphylla_WA | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Arthrostylis_aphylla_NT | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Actinischoenus_NT1 | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | AGA | C:: | ::T | STG | TCT | TCA |
| Actinischoenus_WA | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Abil_oxystachya | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Abil_vaginata | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Abil_schoenoides | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Abil_pachyptera | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Abil_ovata | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Bulb_parbata | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | TTT | AGA | TTT | TCA | TCA |
| Bulb_densa | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | TTT | AGA | TTT | TCA | TCA |
| Bulb_striatella | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | TTT | AGA | TTT | TCA | TCA |
| Bulb_sp_nov_1 | CAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCT | TTA | TTT | AGA | TTT | TCA | TCA |
| Fimb_littoralis | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Cross_setifolia_NT_2 | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Cross_setifolia_NT3 | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Cross_setifolia_NT1 | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_heilsonii | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_cephalophora | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_cinnamometorum_NSW | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_arnhemensis | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_compacta | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_bisumbellata | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTT | TCA | TCA |
| Fimb_cinnamometorum_WA | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_densa_WA | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_dichotoma | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_rara | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_pterygosperma_WA1 | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_lanceolata | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_microcarya_WA1 | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | CCA | TCA |
| Fimb_nutans | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | ATA | TCA | TCA |
| Fimb_pterygosperma_NT | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_microcarya_WA2 | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | CCA | TCA |
| Fimb_laxiglumis | TAG | AAA | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_polytrichoides | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_velata | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_sieberiana | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_cericea | CAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_ferruginea | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_tristachya | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_tetragona_WA | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_densa_NT | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_schultzii | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_tetragona_Qld | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Fimb_cymosa | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | A:: | ::A | TTA | TCA | TCA |
| Actinischoenus_NT2 | TAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | AGA | C:: | ::T | GTG | TCT | TCA |
| Bulb_sp_nov_3 | CAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | TTT | AGA | TTT | TCA | TCA |
| Bulb_sp_nov_2 | CAG | AAT | GGA | CAC | TCT | CTT | TAT | T:: | :CT | CCF | TTA | TTT | AGA | TTT | TCA | TCA |

| | |
|----------------------------|---|
| Fimb_pterygosperma_WA2 | TAG AAT GGA CAC TCT CTT TAT TCT CCT CCT TTA A:: :A TTA TCA TCA |
| Fimb_punctata_NT2 | TAG AAT GGA CAC TCT CTT TAT TCT CCT CCT TTA A:: :A TTA TCA TCA |
| Fimb_punctata_WA | TAG AAT GGA CAC TCT CTT TAT TCT CCT CCT TTA A:: :A TTA TCA TCA |
| Fimb_punctata_NT1 | TAG AAT GGA CAC TCT CTT TAT TCT CCT CCT TTA A:: :A TTA TCA TCA |
| Eleocharis_cylindrostachys | TTT TTT CAA TCT AAA AAA CTC TAG AAT TTA GAA AAT ::: :A A:: ::: |
| Schoenoplectus_littoralis | TTT TTT CAA TCT AAC AAA CCC TAT AAT GAA TAG AAT ::: :A TAG AAT |
| Bolboschoenus_caldwellii | TTT TTT CAA TCT AAC AAA CTC TAT AAT GAA TAT AAT ::: :A GAT A:: |
| Arthrostylis_aphylla_WA | TTT TTT CAA TCT AAA AAA CTC TAT GAT TGA TAA AAT CAA TTA A:: ::: |
| Arthrostylis_aphylla_NT | TTT TTT CAA TCT AAA AAA CTC TAT GAT TGA TAA AAT CAA TTA A:: ::: |
| Actinoschoenus_NT1 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TGA TAA AAT CAA TTA A:: ::: |
| Actinoschoenus_WA | TTT TTT CAA TCT AAA AAA CTC TAT GAT TGA GAA AAT CAA TTA A:: ::: |
| Abil_exystachya | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTC A:: ::: |
| Abil_vaginata | TTT TTT CAA TCT AAA AAA CTC TAT AAT TGA TAA AAT CAA TTA A:: ::: |
| Abil_schoenoides | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTC A:: ::: |
| Abil_pachptera | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TCA A:: ::: |
| Abil_ovata | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Bulb_barbata | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TCA A:: ::: |
| Bulb_densa | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TCA A:: ::: |
| Bulb_striatella | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TCA A:: ::: |
| Bulb_sp_nov_1 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TCA A:: ::: |
| Fimb_littoralis | TTT TTT CAA TCT AAA AAA CTC TAT GAT TCA TAA AAT CAA TTA A:: ::: |
| Cross_setifolia_NT2 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TGA TAA AAT CAA TTA A:: ::: |
| Cross_setifolia_NT3 | TTT TTT CAA TCT AAA AAA CTC TAT AAT TGA TAA AAT CAA TTA A:: ::: |
| Cross_setifolia_NT1 | TTT TTT CAA TCT AAA AAA CTC TAT AAT TGA TAA AAT CAA TTA A:: ::: |
| Fimb_neilsonii | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_cephalophora | TTT TCT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_cinnamometorum_NSW | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CA: ::: ::: |
| Fimb_anhemensis | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TCA A:: ::: |
| Fimb_compacta | TTT TTT CAA TCT AGA AAA CTC TAT GAT TAA TAA AAT CAA TGA A:: ::: |
| Fimb_bisumbellata | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_cinnamometorum_WA | TTT TTT CAA TCT AAA AAA CTT TAT GAT TAA TAA AAT CA: ::: ::: |
| Fimb_densa_WA | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TGA A:: ::: |
| Fimb_dichotoma | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_rara | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_pterygosperma_WA1 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_lanceolata | TTT TCT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_microcarya_WA1 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTC A:: ::: |
| Fimb_nutans | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT TAA TTA A:: ::: |
| Fimb_pterygosperma_NT | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_microcarya_WA2 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTC A:: ::: |
| Fimb_axiglumis | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_polytrichoides | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_velata | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_sieberiana | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_sericea | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_ferruginea | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_tristachya | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_tetragona_WA | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTC A:: ::: |
| Fimb_densa_NT | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TGA A:: ::: |
| Fimb_schultzii | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TCA A:: ::: |
| Fimb_tetragona_Qld | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTC A:: ::: |
| Fimb_cymosa | TTT TCT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Actinischoenus_NT2 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TGA TAA AAT CAA TTA A:: ::: |
| Bulb_sp_nov_3 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TCA A:: ::: |
| Bulb_sp_nov_2 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TCA A:: ::: |
| Fimb_pterygosperma_WA2 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_punctata_NT2 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_punctata_WA | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Fimb_punctata_NT1 | TTT TTT CAA TCT AAA AAA CTC TAT GAT TAA TAA AAT CAA TTA A:: ::: |
| Eleocharis_cylindrostachys | :AT TCT ATT GAT TAC CTC AAA ATT GAG TTC :TT TTT TCA TTG AAC ::: |
| Schoenoplectus_littoralis | TAT TCT ATT CAT TA: CTC AAA CTT GAG TTT TTT TCA TTG AAC ::: |
| Bolboschoenus_caldwellii | TAT TCA ATT GAT TA: CTC AAA ATT GAG TTT TTT TCA TTG AAC ::: |
| Arthrostylis_aphylla_WA | :AT TCA ATT GAT TA: TTC AAA ATT GAA TTC :TT TTT TCA TTG AAC ::: |
| Arthrostylis_aphylla_NT | :AT TCA ATT GAT TA: TTC AAA ATT GAA TTC :TT TTT TCA TTG AAC ::: |
| Actinoschoenus_NT1 | :AT TCC ATT GAT TA: TTC AAA ATT GAA TTC :TT TTT TCA TTG AAC ::: |
| Actinoschoenus_WA | :AT TCA ATT GAT TA: TTC AAA ATT GAA TTC :TT TTT TCA TTG AAC ::: |
| Abil_exystachya | :AT TCA ATT GAT TA: TTC AAA ATT GAG TTC :TT TTT TCA TTG AAC ::: |
| Abil_vaginata | :AT TCA ATT GAT TA: TTC AAA ATT GAG TTC :TT TTT TCA TTG AAC ::: |
| Abil_schoenoides | :AT TCA ATT GAT TA: TTC AAA ATT GAG TTC :TT TTT TCA TTG AAC ::: |
| Abil_pachptera | :AT TCA ATT GAT TA: TTC AAA ATT GAG TTC :TT TTT TCA TTG AAC ::: |
| Abil_ovata | :AT TCA ATT GAT TA: TTC AAA ATT GAG TTC :TT TTT TCA TTG AAC ::: |
| Bulb_barbata | :AT TCA ATT GAT TT: TTC AAA ATT GAG TTC :TT TTT TCA TTG AAC ::: |
| Bulb_densa | :AT TCA ATT GAT TT: TTC AAA ATT GAG TTC :TG TTT TCA TTG AAC ::: |
| Bulb_striatella | :AT TCA ATT GAT TT: TTC AAA ATT GAG TTC :TG TTT TCA TTG AAC ::: |
| Bulb_sp_nov_1 | :AT TCA ATT GAT TT: TTC AAA ATT GAG TTC :TT TTT TCA TTG AAC ::: |

| | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Fimb_arnhemensis | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_compacta | GAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTG | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_bisumbellata | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_cinnamometorum_WA | CAA | TTT | CTT | TAT | TAA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTC | ::: | | | |
| Fimb_densa_WA | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | GTA | ::: | | | |
| Fimb_dichotoma | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_rara | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_pterygosperma_WA1 | CAA | TTT | CTT | TAT | TCA | TAT | GAT | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_lanceolata | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_microcarya_WA1 | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_nutans | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_pterygosperma_NT | CAA | TTT | CTT | TAT | TCA | TAT | GAT | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_microcarya_WA2 | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_laxiglumis | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TGA | ::: | | | |
| Fimb_polytrichoides | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_velata | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | CTT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_sieberiana | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_cericea | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_ferruginea | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_tristachya | CAA | TTT | CTT | TAT | TCA | ATT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_tetragona_WA | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTC | ::: | | | |
| Fimb_densa_NT | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | GTA | ::: | | | |
| Fimb_schultzii | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_tetragona_Qld | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTC | ::: | | | |
| Fimb_cymosa | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Actinoschoenus_NT2 | CAA | TTT | CTA | ATT | TCA | TAT | GAA | TTC | TAT | TTT | TTG | ATT | ::: | ::: | T | TTA | ::: | | | |
| Bulb_sp_nov_3 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | | | |
| Bulb_sp_nov_2 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | | | |
| Fimb_pterygosperma_WA2 | CAA | TTT | CTT | TAT | TCA | TAT | GAT | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_punctata_NT2 | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_punctata_WA | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| Fimb_punctata_NT1 | CAA | TTT | CTT | TAT | TCA | TAT | GAA | TTC | TAT | TTT | TTT | ATT | ::: | ::: | T | TTA | ::: | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Eleocharis_cylindrostachys | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | | | |
| Schcenoplectus_littoralis | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | | | |
| Bolboschoenus_caldwellii | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | | | |
| Arthrostylis_aphylla_WA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | CGT | TGG | ::: | | |
| Arthrostylis_aphylla_NT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | CGT | TGG | ::: | | |
| Actinoschoenus_NT1 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | CGT | TGG | ::: | | |
| Actinoschoenus_WA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | CGT | TGG | ::: | | |
| Abil_oxystachya | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATA | ::: | ::: | TAT | ATG | ::: | ::: | | |
| Abil_vaginata | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | | |
| Abil_schoenoides | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATA | ::: | ::: | TAT | ATG | ::: | ::: | | |
| Abil_pachytera | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | | |
| Abil_ovata | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AT | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | |
| Bulb_barbata | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATA | AA: | ::: | A | CGT | TAG | ::: | | |
| Bulb_densa | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATA | AA: | ::: | A | CGT | TAG | ::: | | |
| Bulb_striatella | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATA | AA: | ::: | A | CGT | TAG | ::: | | |
| Bulb_sp_nov_1 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | | |
| Fimb_littoralis | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | A | TAT | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: |
| Cross_setifolia_NT_2 | CTA | TTT | TTT | TAT | TTT | TAA | TAT | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | | |
| Cross_setifolia_NT3 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Cross_setifolia_NT1 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_neilsonii | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_cephalophora | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_cinnamometorum_NSW | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_arnhemensis | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_compacta | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATA | TAT | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_bisumbellata | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_cinnamometorum_WA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_densa_WA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATG | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_dichotoma | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_rara | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_pterygosperma_WA1 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_lanceolata | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_microcarya_WA1 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_nutans | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_pterygosperma_NT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_microcarya_WA2 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_laxiglumis | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | CA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_polytrichoides | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AT: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_velata | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_sieberiana | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_cericea | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AT | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: |
| Fimb_ferruginea | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | AAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |
| Fimb_tristachya | ::: | ::: | ::: | ::: | ATT | TA: | AT | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | | |
| Fimb_tetragona_WA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TAT | ATG | ATT | AA: | ::: | A | TGT | TGG | ::: | ::: | |

| | |
|----------------------------|---|
| Fimb_densa_NT | ::: ::: ::: ::: ::: ::: ::: ::: ATA TAT ATG ATG AA: ::A TGT TGG ::: |
| Fimb_schultzii | ::: ::: ::: ::: ::: ::: ::: ::: AAT ATG ATT AA: ::A TGT TGG ::: |
| Fimb_tetragona_Qld | ::: ::: ::: ::: ::: ::: ::: ::: ATA TAT ATG ATT AA: ::A TGT TGG ::: |
| Fimb_cymosa | ::: ::: ::: ::: ::: ::: ::: ::: ATA TAT ATG ATT AA: ::A TGT TGG ::: |
| Actinischocenus_NT2 | ::: ::: ::: ::: ::: ::: ::: ::: ATA TAT ATG ATT AA: ::A CGT TGG ::: |
| Bulb_sp_ncv_3 | ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Bulb_sp_ncv_2 | ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: ::: |
| Fimb_pterygosperma_WA2 | ::: ::: ::: ::: ::: ::: ::: ::: ATA TAT ATT ATT AA: ::A TGT TGC ::: |
| Fimb_punctata_NT2 | ::: ::: ::: ::: ::: ::: ::: :AT ATA TAT ATG ATG AA: ::A TGT TGG ::: |
| Fimb_punctata_WA | ::: ::: ::: ::: ::: ::: ::: ::: ATA TAT ATG ATA AA: ::A TGT TGG ::: |
| Fimb_punctata_NT1 | ::: ::: ::: ::: ::: ::: ::: :AT ATA TAT ATG ATG AA: ::A TGT TGG ::: |
| Eleocharis_cylindrostachys | ATT CAT TCA GTA TAT ATC ::: ::A A:: ::C A:T ACA TTT TTG GTA TAG |
| Schoenoplectus_littoralis | ATT AA: TCA GTA TAA TCA ATT ATT A:: ::G G:T ACG TCC TTG GTA TAG |
| Bolboschoenus_caldwellii | ATT AA: TCA GTA TAT ATA ::: ::T A:: ::C G:T ACG TCT TTC GTA TAG |
| Arthrostylis_aphylla_WA | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Arthrostylis_aphylla_NT | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Actinoschoenus_NT1 | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Actinoschoenus_WA | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Abil_oxystachya | ATT AA: TCA GTA TCC ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Abil_vaginata | ATT AA: TCA GTA TAT ATA ::: ::A ATA TAC G:T ACG TCT TTG GTA TAG |
| Abil_schoenoides | ATT AA: TCA GTA TCC ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Abil_pachptera | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Abil_ovata | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Bulb_barbata | ATT AA: TCA GTA TGT ATA ::: ::A A:: ::C T:T ACG TCT TTG GTA TAG |
| Bulb_densa | ATT AA: TCA GTA TCT ATA ::: ::A T:: ::C T:T ACG TCT TTG GTA TAG |
| Bulb_striatella | ATT AA: TCA GTA TGT ATA ::: ::A T:: ::C TAT ACG TCT TTG GTA TAG |
| Bulb_sp_ncv_1 | ::: ::: ::: ::: :TA TGT ATA ::: ::A A:: ::C T:T ACG TCT TTG GTA TAG |
| Fimb_littoralis | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Cross_setifolia_NT_2 | ATT AA: TCA GTA TAT ATA ::: ::A ATA AAC G:T ACG TCT TTG GTA TAG |
| Cross_setifolia_NT3 | ATT AA: TCA GTA TAT ATA ::: ::A ATA TAC G:T ACG TCT TTG GTA TAG |
| Cross_setifolia_NT1 | ATT AA: TCA GTA TAT ATA ::: ::A ATA TAC G:T ACG TCT TTG GTA TAG |
| Fimb_neilsenii | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_cephalophora | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_cinnamometorum_NSW | ATT AA: TCA GTA TAA TTA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_arnhemensis | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_compacta | ATT AA: TCA GTA TCC ATA ::: ::A A:: ::C G:T ATG TGT TTG GTA TAG |
| Fimb_bisumbellata | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_cinnamometorum_WA | ATT AA: TCA GTA TAA TTA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_densa_WA | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_dichotoma | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_rara | ATT AA: TCA GTA TAT AGA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_pterygosperma_WA1 | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_lanceolata | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_microcarya_WA1 | ATT AA: TTA GTA TAA TTA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_nutans | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_pterygosperma_NT | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_microcarya_WA2 | ATT AA: TTA GTA TAA TTA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_laxiglumis | ATT AA: TTA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_polytrichoides | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_velata | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_sieberiana | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_cericea | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_ferruginea | ATT AA: TCA GTA TAT AGA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_tristachya | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_tetragona_WA | ATT AA: TCA GTA TAT AAA ::: ::A A:: ::C C:T ACG TCT TTG GTA TAG |
| Fimb_densa_NT | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_schultzii | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_tetragona_Qld | ATT AA: TCA GTA TAT AAA ::: ::A A:: ::C C:T ACG TCT TTG GTA TAG |
| Fimb_cymosa | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Actinischocenus_NT2 | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Bulb_sp_ncv_3 | ::: ::: ::: ::: :TA TGT ATA ::: ::A A:: ::C T:T ACG TCT TTG GTA TAG |
| Bulb_sp_ncv_2 | ::: ::: ::: ::: :TA TGT ATA ::: ::A A:: ::C T:T ACG TCT TTG GTA TAG |
| Fimb_pterygosperma_WA2 | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_punctata_NT2 | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_punctata_WA | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Fimb_punctata_NT1 | ATT AA: TCA GTA TAT ATA ::: ::A A:: ::C G:T ACG TCT TTG GTA TAG |
| Eleocharis_cylindrostachys | ACG GCT ATC CT: ::: :TT ATC TTA :TC TCG GGA GAT AAA TTC TAG CAA |
| Schoenoplectus_littoralis | ACA GCT ATC CT: ::: :TT CTC TTA :TC TCG AGA GAT AAA TTC TAG CAA |
| Bolboschoenus_caldwellii | ACG GCT ATC CT: ::: :TT CTC TTG :TC TCG AGA GAT AAA TTC TAG CAA |
| Arthrostylis_aphylla_WA | ACG GCT ATC CT: ::: :TT ATC TTA :TC TPG AGA GAT AAA TTC AAG CAA |
| Arthrostylis_aphylla_NT | ACG GCT ATC CT: ::: :TT ATC TTA :TC TPG AGA GAT AAA TTC AAG CAA |
| Actinoschoenus_NT1 | ACG GCT ATC CT: ::: :TT ATC TTA :TC TPG AGA GAT AAA TTC AAG CAA |
| Actinoschoenus_WA | ACG GCT ATC CT: ::: :TT ATC TTA :TC TPG AGA GAT AAA TTC AAG CAA |
| Abil_oxystachya | ACG GCT ATC CT: ::: :TT ATC TTA :TC TPG ATA GAT AAA TTC TAT CTA |
| Abil_vaginata | ACG GCT ATC CT: ::: :TT ATG TTA :TC TPG AGA GAT AAA TTC TAG CAA |

| | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Abil_schoenoides | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | ATA | GAT | AAA | TTC | TAT | CAA |
| Abil_pachptera | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Abil_cvata | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Bulb_barbata | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TCC | AGA | GAT | AAA | TTC | TAG | CAA |
| Bulb_densa | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TCC | AGA | GAT | AAA | TTC | TAG | CAA |
| Bulb_striatella | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TCC | AGA | GAT | AAA | TTC | TAG | CAA |
| Bulb_sp_nov_1 | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TCC | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_littoralis | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TT | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Cross_setifolia_NT_2 | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TT | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Cross_setifolia_NT3 | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Cross_setifolia_NT1 | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_neilsonii | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_cephalophora | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_cinnamometorum_NSW | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | GGA | TAG | CAA |
| Fimb_arnhemensis | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_compacta | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | CTA | GAT | AAA | TTC | TAG | CAA |
| Fimb_bisumbellata | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_cinnamometorum_WA | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | GGA | TAG | CAA |
| Fimb_censa_WA | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_cichotoma | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_rara | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_pterygosperma_WA1 | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_lanceolata | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | TTC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_microcarya_WA1 | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_nutans | ACG | GCT | ATC | CTA | TCC | TTT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_pterygosperma_NT | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_microcarya_WA2 | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_laxiglumis | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_polytrichoides | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_velata | ACG | GCT | ::: | ::: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_sieberiana | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_cericea | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_ferruginea | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_tristachya | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_tetragona_WA | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_censa_NT | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_schultzii | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_tetragona_Qld | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_cymosa | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | TTC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Actinischoenus_NT2 | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TTG | AGA | GAT | AAA | TTC | AAG | CAA |
| Bulb_sp_nov_3 | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TCC | AGA | GAT | AAA | TTC | TAG | CAA |
| Bulb_sp_nov_2 | ACG | GCT | ATC | CT: | ::: | :TT | ATC | TAA | :TC | TCC | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_pterygosperma_WA2 | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_punctata_NT2 | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_punctata_WA | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Fimb_punctata_NT1 | ACG | GCT | ATC | CT: | ::: | :TT | ATG | TAA | :TC | TTG | AGA | GAT | AAA | TTC | TAG | CAA |
| Eleocharis_cylindrostachys | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Schoenoplectus_littoralis | TGC | AAC | ATA | ATA | AAC | TCT | T:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Bolboschoenus_caldwellii | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Arthrostylis_aphylla_WA | TGC | AAC | ACA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Arthrostylis_aphylla_NT | TGC | AAC | ACA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Actinischoenus_NT1 | TGC | AAC | ACA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Actinischoenus_WA | TGC | AAC | ACA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Abil_cxystachya | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Abil_vaginata | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Abil_schoenoides | TGC | AAC | ATA | AAA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Abil_pachptera | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Abil_cvata | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Bulb_barbata | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Bulb_densa | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Bulb_striatella | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Bulb_sp_nov_1 | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Fimb_littoralis | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Cross_setifolia_NT_2 | TGC | AAC | ATA | ATA | AAC | TCT | ATT | CGA | ATA | AAC | TCT | ATT | CGT | TAG | AAT | AGC |
| Cross_setifolia_NT3 | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Cross_setifolia_NT1 | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Fimb_neilsonii | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CCT | TAG | AAT | AGC |
| Fimb_cephalophora | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CCT | TAG | AAT | AGC |
| Fimb_cinnamometorum_NSW | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Fimb_arnhemensis | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Fimb_compacta | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Fimb_bisumbellata | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Fimb_cinnamometorum_WA | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CCT | TAG | AAT | AGC |
| Fimb_censa_WA | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Fimb_cichotoma | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CGT | TAG | AAT | AGC |
| Fimb_rara | TGC | AAC | ATA | ATA | AAC | TCT | A:: | ::: | ::: | ::: | ::: | :TT | CCT | TAG | AAT | AGC |

| | | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Fimb_pterygosperma_WA2 | TTC | CAT | CGA | GT | TCT | GCA | CCT | ATC | CTC | TTT | AT: | ::: | ::: | ::: | T | TTT | ::: |
| Fimb_punctata_NT2 | TTC | CAT | CGA | GT | TCT | GCA | CCT | ATC | CTC | TTT | AT: | ::: | ::: | ::: | T | TTT | ::: |
| Fimb_punctata_WA | TTC | CAT | CGA | GT | TCT | GCA | CCT | ATC | CTC | TTT | AT: | ::: | ::: | ::: | T | TTT | ::: |
| Fimb_punctata_NT1 | TTC | CAT | CGA | GT | TCT | GCA | CCT | ATC | CTC | TTT | AT: | ::: | ::: | ::: | T | TTT | ::: |
| Eleocharis_cylindrostachys | AAT | TCT | ATA | TCT | ATC | TAT | ATC | TAG | ATA | GAT | AAT | AGA | TTA | TCT | AGA | TCT | |
| Schoenoplectus_littoralis | AAT | TCT | AAT | ATI | TTA | TTA | TAG | AAA | AAA | AAA | TAG | A:: | ::: | A | TAA | TTT | C:: |
| Bolboschoenus_caldwellii | AAT | TCT | ATA | TAT | AT: | ::: | ::: | ::: | ::: | T | TAG | AA: | ::: | A | TAA | T:: | ::: |
| Arthrostylis_aphylla_WA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Arthrostylis_aphylla_NT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Actinoschoenus_NT1 | ::: | ::: | ::: | ::: | A | AG: | ::: | ::: | ::: | A | AGG | AAA | A:: | ::: | A | TAA | A:: |
| Actinoschoenus_WA | ::: | ::: | ::: | ::: | A | AA: | ::: | ::: | ::: | G | AAG | GAA | AA: | ::: | A | TAA | ::: |
| Abil_cxystachya | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | A:: | ::: | ::: | ::: | ::: |
| Abil_vaginata | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAA | TAA | AA: | ::: | AA | ::: | T |
| Abil_schoenoides | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | A:: | ::: | ::: | ::: | ::: |
| Abil_pachyptera | ::: | ::: | ::: | ::: | A | GT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | ::: | ::: | T |
| Abil_ovata | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA | ::: | A:: |
| Bulb_barbata | ::: | ::: | ::: | ::: | T | T: | ::: | ::: | ::: | A | AAT | AAA | GA: | ::: | G: | ::: | G:: |
| Bulb_censa | ::: | ::: | ::: | ::: | I | AT: | ::: | ::: | ::: | T | AAA | AAA | GAA | ::: | G | AA: | A:: |
| Bulb_striatella | ::: | ::: | ::: | ::: | I | AT: | ::: | ::: | ::: | T | AAA | AAA | GAA | ::: | G | AA: | G:: |
| Bulb_sp_nov_1 | ::: | ::: | ::: | ::: | I | AT: | ::: | ::: | ::: | T | AAA | GAA | AA: | ::: | AA | ::: | G:: |
| Fimb_littoralis | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA | ::: | A:: |
| Cross_setifolia_NT_2 | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAA | TAA | AA: | ::: | AAA | TAT | A:: |
| Cross_setifolia_NT3 | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAA | TAA | AA: | ::: | AA | ::: | T:: |
| Cross_setifolia_NT1 | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAA | TAA | AA: | ::: | AA | ::: | T:: |
| Fimb_reilscnii | ::: | ::: | ::: | ::: | C | TT: | ::: | ::: | ::: | A | AAG | GAA | AT: | A:: | AAA | ::: | ::: |
| Fimb_cephalophora | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AT: | ::: | A:: |
| Fimb_cinnamometorum_NSW | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | T:: |
| Fimb_ernhemensis | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AT: | ::: | ::: | ::: | A:: |
| Fimb_ccompacta | ::: | ::: | ::: | ::: | C | TT: | ::: | ::: | ::: | A | AAG | GAA | A:: | ::: | ::: | ::: | ::: |
| Fimb_bisurbellata | ::: | ::: | ::: | ::: | I | AT: | ::: | ::: | ::: | A | ATG | AAA | AA: | ::: | AT: | ::: | A:: |
| Fimb_cinnamometorum_WA | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | T:: |
| Fimb_densa_WA | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | A:: |
| Fimb_dichotoma | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AT: | ::: | A:: |
| Fimb_rara | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AT: | ::: | ::: |
| Fimb_pterygosperma_WA1 | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | A:: | ATA | AA: | ::: | A:: |
| Fimb_lanceolata | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | A:: | ATA | AA: | ::: | A:: |
| Fimb_microcarya_WA1 | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | T:: |
| Fimb_rutans | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | A:: |
| Fimb_pterygosperma_NT | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | A:: | ATA | AA: | ::: | A:: |
| Fimb_microcarya_WA2 | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | T:: |
| Fimb_laxiglumis | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | ATA | A:: | AA: | ::: | A:: |
| Fimb_polytrichoides | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | A:: | ATA | A:: | ::: | ::: |
| Fimb_velata | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | A:: |
| Fimb_sieberiana | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | T | AA: | A:: |
| Fimb_cericea | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | A:: |
| Fimb_ferruginea | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | T:: |
| Fimb_tristachya | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | A:: |
| Fimb_tetragona_WA | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | A:: |
| Fimb_densa_NT | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | A:: |
| Fimb_schultzii | ::: | ::: | ::: | ::: | A | GT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | ::: | ::: | T:: |
| Fimb_tetragona_Qld | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | AA: | ::: | A:: |
| Fimb_cymosa | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | AA: | ::: | T | AA: | ::: |
| Actinoschoenus_NT2 | ::: | ::: | ::: | ::: | A | AG: | ::: | ::: | ::: | A | AGG | AAA | A:: | ::: | A | TAA | A:: |
| Bulb_sp_ncv_3 | ::: | ::: | ::: | ::: | T | AT: | ::: | ::: | ::: | T | AAA | GAA | AA: | ::: | AA | ::: | G:: |
| Bulb_sp_ncv_2 | ::: | ::: | ::: | ::: | T | AT: | ::: | ::: | ::: | T | AAA | GAA | AA: | ::: | AA | ::: | G:: |
| Fimb_pterygosperma_WA2 | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | A:: | ATA | AA: | ::: | A:: |
| Fimb_punctata_NT2 | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | A:: | G:: | AA: | ::: | A:: |
| Fimb_punctata_WA | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | A:: | G:: | AA: | ::: | A:: |
| Fimb_punctata_NT1 | ::: | ::: | ::: | ::: | A | TT: | ::: | ::: | ::: | A | AAG | GAA | A:: | G:: | AA: | ::: | A:: |
| Eleocharis_cylindrostachys | ATC | TAT | CTA | TA: | ::: | ::: | ::: | ::: | ::: | TAT | CT: | ::: | ATT | TTT | ::: | | |
| Schoenoplectus_littoralis | ::: | ::: | T | TA: | TA: | ::: | ::: | ::: | ::: | TAT | ATA | GAA | ATT | ATT | CTA | | |
| Bolboschoenus_caldwellii | ::: | ::: | A | ATA | AT: | ::: | ::: | ::: | ::: | TAT | ATT | TTA | TTT | TTT | CT: | | |
| Arthrostylis_aphylla_WA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Arthrostylis_aphylla_NT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Actinoschoenus_NT1 | ::: | ::: | AT | ATA | TA: | ::: | ::: | ::: | ::: | TAT | A | ATT | TAT | TTT | | | |
| Actinoschoenus_WA | AT: | AT | ATA | TA: | ::: | ::: | ::: | ::: | ::: | TAT | ATA | ATT | TAT | TTT | | | |
| Abil_cxystachya | ::: | ::: | ::: | TA: | ::: | ::: | ::: | ::: | ::: | TAT | AAA | A:T | TTT | TTT | | | |
| Abil_vaginata | ::: | ::: | ::: | AA | ATA | AAA | AAA | TAT | ATA | TAT | AAT | TAT | AAT | TTT | TTT | CCT | ::: |
| Abil_schoenoides | ::: | ::: | ::: | TA: | ::: | ::: | ::: | ::: | ::: | TAT | AAA | A:T | TTT | TTT | | | |
| Abil_pachyptera | ::: | ::: | ::: | A | AAA | TA: | ::: | ::: | ::: | TAT | ATA | ATT | TTT | TTT | | | |
| Abil_ovata | ::: | ::: | AT | ATA | TA: | ::: | ::: | ::: | ::: | TAT | AAT | T:T | TTT | TTT | | | |
| Bulb_barbata | ::: | ::: | ATA | AC: | ::: | ::: | ::: | ::: | ::: | GAA | ATA | TTT | TTT | TTT | | | |
| Bulb_densa | ::: | ::: | GA | AT: | ::: | ::: | ::: | ::: | ::: | TAT | AGA | A:T | TCT | TTT | | | |
| Bulb_striatella | ::: | ::: | GA | AT: | ::: | ::: | ::: | ::: | ::: | TAT | AGA | A:T | TTT | TTT | | | |
| Bulb_sp_nov_1 | ::: | ::: | GA | AT: | ::: | ::: | ::: | ::: | ::: | TAT | GA | A:T | TTT | TTT | | | |

| | | | | | | | | | | | |
|----------------------------|---------|----------|---------|---------|---------|---------|---------|---------|-------------|----------|-----|
| Fimb_littoralis | ::: ::: | :TA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | A:T TTT | TTT ::: | | |
| Cross_setifolia_NT_2 | ::: ::: | :TA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | A:T TTT | TTT ::: | | |
| Cross_setifolia_NT3 | ::: ::: | :AA AAP | AAA AAA | TAT ATA | TAT AAT | TAT AAT | TTT TTT | CCT ::: | | | |
| Cross_setifolia_NT1 | ::: ::: | :AA AAP | AAA AAA | TAT ATA | TAT AAT | TAT AAT | TTT TTT | CCT ::: | | | |
| Fimb_neilsonianii | ::: ::: | :AA AAP | TAT ATA | TAT ATA | TAT ATA | TAT ATA | A:T TTT | TTT ::: | | | |
| Fimb_cephalophora | ::: :AT | ATA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAA ::: | :TT TTT | TTC ::: | | |
| Fimb_cinnamometorum_NSW | ::: :A: | ATA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATT | ATT TTT | TTT ::: | | |
| Fimb_arnhemensis | ::: :A: | AAA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | ATT TTT | TTT ::: | | |
| Fimb_compacta | ::: ::: | :TA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ::: | A:T TTT | TTT ::: | | |
| Fimb_bisumbellata | ::: :A: | AAA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | ATT TTT | TTT ::: | | |
| Fimb_cinnamometorum_WA | ::: :A: | ATA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATT | ATT TTT | TTT ::: | | |
| Fimb_densa_WA | ::: :AT | ATA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :T ATC | ATT TTT | TTT ::: | | |
| Fimb_dichotoma | ::: :A: | AAA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | ATT TTT | TTT ::: | | |
| Fimb_rara | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | A:T TTT | TTT ::: | | |
| Fimb_pterygosperma_WA1 | ::: ::: | :TA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ::: | C:A ATT | TTT ::: | | |
| Fimb_lanceolata | ::: ::: | :TA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | A:T TTT | TTT ::: | | |
| Fimb_microcarya_WA1 | ::: ::: | :AA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | ATT TTT | TTT ::: | | |
| Fimb_nutans | ::: :A: | ATA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | G:T TTT | TTT ::: | | |
| Fimb_pterygosperma_NT | ::: ::: | :TA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ::: | C:A ATT | TTT ::: | | |
| Fimb_microcarya_WA2 | ::: ::: | :AA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | ATT TTT | TTT ::: | | |
| Fimb_laxiglumis | ::: :A: | AAA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | ATT TTT | TTT ::: | | |
| Fimb_polytrichoides | ::: :T | AAA AA | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | A:T TTT | TTT ::: | | |
| Fimb_velata | ::: :A: | AAA TA | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | ATT TTT | TTT ::: | | |
| Fimb_sieberiana | ::: :A: | GAA TA | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | ATT TTT | TTT ::: | | |
| Fimb_cericea | ::: :AT | ATA TA | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT AAT | T:T TTT | TTC ::: | | |
| Fimb_ferruginea | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | A:T TTT | TTT ::: | | |
| Fimb_tristachya | ::: :A: | AGA TA | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | ATT TTT | TTT ::: | | |
| Fimb_tetragona_WA | ::: ::: | :TA TA | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT AAT | T:T TTT | PTC ::: | | |
| Fimb_densa_NT | ::: :AT | ATA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ::: | C ATT | TTT TTT ::: | | |
| Fimb_schultzei | ::: :A: | AAA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ATA | ATT TTT | TTT ::: | | |
| Fimb_tetragona_Old | ::: ::: | :TA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT AAT | T:T TTT | TTC ::: | | |
| Fimb_cymosa | ::: ::: | :AAA TA: | ::: ::: | ::: ::: | ::: ::: | ::: :TA | TAT ATA | A:T TTT | TTE ::: | | |
| Actinischoenus_NT1 | ::: :AT | ATA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ::: | A ATT | TAT TTT ::: | | |
| Bulb_sp_nov_3 | ::: ::: | :GA AA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT AGA | A:T TTT | TTT ::: | | |
| Bulb_sp_nov_2 | ::: ::: | :GA AA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT AGA | A:T TTT | TTT ::: | | |
| Fimb_pterygosperma_WA2 | ::: ::: | :TA TA: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | TAT ::: | C:A ATT | TTT ::: | | |
| Fimb_punctata_NT2 | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: :AT | TCT ATA | T:A TAT | TTT ::: | | |
| Fimb_punctata_WA | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: :AT | TCT ATA | T:A TAT | TTT ::: | | |
| Fimb_punctata_NT1 | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: :AT | TCT ATA | T:A TAT | TTT ::: | | |
| Eleocharis_cylindrostachys | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TC TAT | CTA | |
| Schoenoplectus_littoralis | TAG AAA | TAT ATA | GAA TAG | AAT ATA | TAT ATA | TAT TAG | AAT ATT | TTT TTT | | | |
| Bolboschoenus_caldwellii | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | |
| Arthrostylis_aphylla_WA | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :ATT TTT | |
| Arthrostylis_aphylla_NT | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :ATT TTT | |
| Actinischoenus_NT1 | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TC ATT | TTT |
| Actinischoenus_WA | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TC ATT | TTT |
| Abil_cxystachya | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Abil_vaginata | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TT TTT | TTT |
| Abil_schoenoides | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Abil_pachptera | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Abil_ovata | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CT TTT | TTT |
| Bulb_barbata | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TC ATT | TTT |
| Bulb_densa | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TC ATT | TTT |
| Bulb_striatella | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TC ATT | TTT |
| Bulb_sp_nov_1 | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TC ATT | TTT |
| Fimb_littoralis | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Cross_setifolia_NT_2 | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Cross_setifolia_NT3 | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TT TTT | TTT |
| Cross_setifolia_NT1 | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TT TTT | TTT |
| Fimb_neilsonianii | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TC CTT | TTT |
| Fimb_cephalophora | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CT TTT | TTT |
| Fimb_cinnamometorum_NSW | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_arnhemensis | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_compacta | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_bisumbellata | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_cinnamometorum_WA | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_densa_WA | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_dichotoma | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_rara | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_pterygosperma_WA1 | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TC CTT | TTT |
| Fimb_lanceolata | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_microcarya_WA1 | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_nutans | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_pterygosperma_NT | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :TC CTT | TTT |
| Fimb_microcarya_WA2 | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |
| Fimb_laxiglumis | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | ::: ::: | :CC TTT | TTT |

| | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Bolboschoenus_caldwellii | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Arthrostylis_aphylla_WA | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Arthrostylis_aphylla_NT | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Actinoschoenus_NT1 | AAT | TCC | AGG | GAT | GTG | TCT | CTG | ATT | :TG | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Actinoschoenus_WA | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Abil_oxystachya | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GTA | AGA |
| Abil_vaginata | AAT | TCC | AGG | GTT | ::: | TCT | CT: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Abil_schoenoides | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GTA | AGT |
| Abil_pachptera | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Abil_ovata | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Bulb_barbata | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Bulb_densa | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Bulb_striatella | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Bulb_sp_nov_1 | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_littoralis | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Cross_setifolia_NT_2 | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Cross_setifolia_NT3 | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Cross_setifolia_NT1 | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_neilsonii | AAT | TCC | AG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_cephalophora | AAT | TCC | AGG | GTT | ::: | TCT | CTG | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_cinnamometorum_NSW | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_arnhemensis | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_compacta | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GTA | AGT |
| Fimb_bisumbellata | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_cinnamometorum_WA | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_densa_WA | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_dichotoma | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_rara | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_pterygosperma_WA1 | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_lanceolata | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_microcarya_WA1 | ATT | CCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGG | TAA | CAC | TTA | GCA | AGT |
| Fimb_nutans | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_pterygosperma_NT | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_microcarya_WA2 | AAT | TCC | AGG | G: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_laxigumis | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_polytrichoides | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_velata | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_sieberiana | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_cericea | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_ferruginea | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_tristachya | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_tetragona_WA | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_densa_NT | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_schultzii | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_tetragona_Old | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_cymosa | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Actinoschoenus_NT1 | AAT | TCC | AGG | GAT | GTG | TCT | CTG | ATT | :TG | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Bulb_sp_nov_3 | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Bulb_sp_nov_2 | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_pterygosperma_WA2 | AAT | TCC | AGG | GTT | ::: | GCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_punctata_NT2 | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_punctata_WA | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Fimb_punctata_NT1 | AAT | TCC | AGG | GTT | ::: | TCT | CTG | AAT | :TT | GGA | AGT | TAA | CAC | TTA | GCA | AGT |
| Eleocharis_cylindrostachys | ATT | T:: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Schoenoplectus_littoralis | TTC | CAT | ACC | AA3 | GCT | CAA | TTC | AAT | GTA | AGT | CCG | TAG | CGC | CT: | ::: | ::: |
| Bolboschoenus_caldwellii | TTC | CAT | ACC | AA3 | GCT | CAA | TCC | AAT | GTA | AGT | CCG | TAG | CGT | CT: | ACC | GAT |
| Arthrostylis_aphylla_WA | TTC | CAT | ACC | AA3 | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGC | :T: | ACC | GAT |
| Arthrostylis_aphylla_NT | TTC | CAT | ACC | AA3 | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT |
| Actinoschoenus_NT1 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Actinoschoenus_WA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Abil_oxystachya | TT: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Abil_vaginata | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Abil_schoenoides | TTC | CAT | ACC | AA3 | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT |
| Abil_pachptera | TTC | CAT | ACC | AA3 | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CCT | ACC | GAT |
| Abil_ovata | TTC | CAT | ACC | AA3 | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGC | C: | ::: | ::: |
| Bulb_barbata | TTC | CAT | ACC | AA3 | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT |
| Bulb_densa | TTC | CAT | ACC | AA3 | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGC | CCT | ACC | GAT |
| Bulb_striatella | TTC | CAT | ACC | AA3 | GCT | CA: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Bulb_sp_nov_1 | TTC | CAT | ACC | AA3 | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT |
| Fimb_littoralis | TTC | CAT | ACC | AA3 | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGC | T: | ::: | ::: |
| Cross_setifolia_NT_2 | TTC | CAT | ACC | AA3 | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT |
| Cross_setifolia_NT3 | TTC | CAT | ACC | AA3 | GCT | CAG | CAG | C:: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Cross_setifolia_NT1 | TCC | ATC | C:: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_neilsonii | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_cephalophora | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_cinnamometorum_NSW | TTC | CAT | ACC | AA3 | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT |

| | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Fimb_arnhemensis | TTC | CAT | ACC | AAG | GCT | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_compacta | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGC | CT: | ::: | ::: | ::: | ::: | ::: |
| Fimb_bisumbellata | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_cinnamometorum_WA | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGC | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_densa_WA | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_dichotoma | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_rara | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_pterygosperma_WA1 | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_lanceolata | TTC | CAC | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGC | C: | ::: | ::: | ::: | ::: | ::: |
| Fimb_microcarya_WA1 | TTC | CCT | TCC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_nutans | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_pterygosperma_NT | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | :AG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_microcarya_WA2 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_laxiglumis | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_polytrichoides | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CCT | ACC | GAT | ::: | ::: | ::: |
| Fimb_velata | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_sieberiana | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CCT | ACC | GAT | ::: | ::: | ::: |
| Fimb_cericea | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_ferruginea | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_tristachya | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_tetragona_WA | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_densa_NT | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | CCC | CGG | ::: | ::: | ::: |
| Fimb_schultzei | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_tetragona_Old | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_cymosa | TTC | CAC | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TA: | CG: | ::: | ::: | ::: | ::: | ::: | ::: |
| Actinischoenus_NT2 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Bulb_sp_nov_3 | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Bulb_sp_nov_2 | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_pterygosperma_WA2 | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_punctata_NT2 | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_punctata_WA | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Fimb_punctata_NT1 | TTC | CAT | ACC | AAG | GCT | CAA | TGC | AA: | ::: | :GT | CCG | TAG | CGT | CT: | ACC | GAT | ::: | ::: | ::: |
| Eleocharis_cylindrostachys | ::: | ::: | ::: | ::: | 010 | 000 | 010 | 110 | 000 | 000 | 111 | 001 | 000 | 110 | 000 | 001 | ::: | ::: | ::: |
| Schoenoplectus_littoralis | ::: | ::: | ::: | ::: | 010 | 001 | 110 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Bolboschoenus_caldwellii | TTC | GA: | ::: | ::: | 020 | 001 | 110 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Arthrostylis_aphylla_WA | TGG | ::: | ::: | ::: | 001 | 000 | 010 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Arthrostylis_aphylla_NT | TTC | GA: | ::: | ::: | 000 | 000 | 010 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Actinoschoenus_NT1 | ::: | ::: | ::: | ::: | 000 | 000 | 010 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Actinoschoenus_WA | ::: | ::: | ::: | ::: | 000 | 000 | 010 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Abil_cxystachya | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 101 | 000 | 100 | 110 | 101 | 100 | 111 | 000 | 000 | ::: | ::: | ::: |
| Abil_vaginata | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 111 | 001 | 001 | 110 | 010 | 000 | ::: | ::: | ::: |
| Abil_schoenoides | TTC | GA: | ::: | ::: | 000 | 000 | 000 | 101 | 000 | 100 | 110 | 101 | 010 | 110 | 000 | 010 | ::: | ::: | ::: |
| Abil_pachptera | TTC | GA: | ::: | ::: | 000 | 010 | 000 | 010 | 000 | 000 | 100 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Abil_cvata | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 111 | 001 | 100 | 110 | 000 | 000 | ::: | ::: | ::: |
| Bulb_barbata | TTC | GAC | CAC | CT: | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Bulb_densa | TTC | GA: | ::: | ::: | 000 | 000 | 010 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Bulb_striatella | ::: | ::: | ::: | ::: | 000 | 000 | 110 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Bulb_sp_nov_1 | TTC | GA: | ::: | ::: | 000 | 000 | 010 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Fimb_littoralis | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 010 | 000 | 000 | 100 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Cross_setifolia_NT_2 | TTC | GA: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 111 | 001 | 001 | 110 | 000 | 000 | ::: | ::: | ::: |
| Cross_setifolia_NT3 | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 111 | 001 | 001 | 110 | 010 | 000 | ::: | ::: | ::: |
| Cross_setifolia_NT1 | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 111 | 001 | 001 | 110 | 010 | 000 | ::: | ::: | ::: |
| Fimb_neilsonii | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 110 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Fimb_cephalophora | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 010 | 110 | 011 | 001 | 110 | 000 | 100 | ::: | ::: | ::: |
| Fimb_cinnamometorum_NSW | TTC | GA: | ::: | ::: | 000 | 000 | 000 | 100 | 100 | 000 | 110 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Fimb_arnhemensis | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 110 | 001 | 100 | 111 | 000 | 000 | ::: | ::: | ::: |
| Fimb_compacta | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 100 | 010 | 000 | 110 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Fimb_bisumbellata | TTC | GA: | ::: | ::: | 101 | 000 | 000 | 110 | 000 | 000 | 110 | 011 | 001 | 110 | 001 | 000 | ::: | ::: | ::: |
| Fimb_cinnamometorum_WA | TTC | GA: | ::: | ::: | 000 | 000 | 000 | 100 | 100 | 000 | 110 | 000 | 000 | 000 | 000 | 000 | ::: | ::: | ::: |
| Fimb_densa_WA | TTC | GG: | ::: | ::: | 010 | 000 | 000 | 100 | 001 | 000 | 111 | 001 | 001 | 110 | 010 | 001 | ::: | ::: | ::: |
| Fimb_dichotoma | TTC | GA: | ::: | ::: | 001 | 000 | 000 | 110 | 000 | 000 | 110 | 011 | 001 | 110 | 001 | 000 | ::: | ::: | ::: |
| Fimb_rara | TTC | GA: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 111 | 001 | 010 | 110 | 000 | 000 | ::: | ::: | ::: |
| Fimb_pterygosperma_WA1 | TTC | GA: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 111 | 001 | 100 | 111 | 000 | 000 | ::: | ::: | ::: |
| Fimb_lanceolata | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 010 | 110 | 011 | 001 | 110 | 000 | 000 | ::: | ::: | ::: |
| Fimb_microcarya_WA1 | ::: | ::: | ::: | ::: | 000 | 000 | 001 | 100 | 100 | 000 | 110 | 011 | 001 | 110 | 001 | 000 | ::: | ::: | ::: |
| Fimb_nutans | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 111 | 001 | 100 | 111 | 000 | 000 | ::: | ::: | ::: |
| Fimb_pterygosperma_NT | TTC | GCC | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 111 | 001 | 100 | 111 | 000 | 000 | ::: | ::: | ::: |
| Fimb_microcarya_WA2 | ::: | ::: | ::: | ::: | 000 | 000 | 001 | 100 | 100 | 000 | 110 | 011 | 001 | 110 | 001 | 000 | ::: | ::: | ::: |
| Fimb_laxiglumis | TTC | ::: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 110 | 011 | 001 | 110 | 001 | 000 | ::: | ::: | ::: |
| Fimb_polytrichoides | TTC | GA: | ::: | ::: | 000 | 100 | 000 | 100 | 000 | 000 | 110 | 011 | 001 | 110 | 001 | 000 | ::: | ::: | ::: |
| Fimb_velata | ::: | ::: | ::: | ::: | 100 | 100 | 000 | 110 | 000 | 000 | 110 | 000 | 001 | 110 | 001 | 000 | ::: | ::: | ::: |
| Fimb_sieberiana | TTC | GA: | ::: | ::: | 101 | 000 | 000 | 110 | 000 | 000 | 110 | 011 | 001 | 010 | 001 | 000 | ::: | ::: | ::: |
| Fimb_cericea | ::: | ::: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 010 | 110 | 011 | 000 | 110 | 000 | 100 | ::: | ::: | ::: |
| Fimb_ferruginea | TTC | GA: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 111 | 001 | 010 | 110 | 000 | 000 | ::: | ::: | ::: |
| Fimb_tristachya | TTC | GA: | ::: | ::: | 000 | 000 | 000 | 110 | 000 | 000 | 110 | 011 | 001 | 110 | 000 | 010 | ::: | ::: | ::: |
| Fimb_tetragona_WA | TTC | GA: | ::: | ::: | 000 | 000 | 000 | 100 | 001 | 001 | 111 | 001 | 100 | 110 | 100 | 000 | ::: | ::: | ::: |

| | |
|----------------------------|---|
| Fimb_densa_NT | ::: ::: ::: ::: 010 000 000 100 001 000 111 001 001 110 000 001 |
| Fimb_schultzii | ::: ::: ::: ::: 000 010 000 110 000 000 120 000 000 000 000 000 |
| Fimb_tetragona_Qld | TTC GAA T:: ::: 000 000 000 100 001 001 111 001 100 110 100 000 |
| Fimb_cymosa | ::: ::: ::: ::: 000 000 000 110 000 010 110 011 001 110 000 000 |
| Actinoschoenus_NT2 | ::: ::: ::: ::: 000 000 010 000 000 000 000 000 000 000 000 000 |
| Bulb_sp_nov_3 | TTC 3G: ::: ::: 000 000 010 000 000 000 000 000 000 000 000 000 |
| Bulb_sp_nov_2 | TTC GA: ::: ::: 000 000 010 000 000 000 000 000 000 000 000 000 |
| Fimb_pterygosperma_WA2 | TTC GA: ::: ::: 000 000 000 110 000 000 111 001 100 111 000 000 |
| Fimb_punctata_NT2 | TTC GAC ::: ::: 000 000 000 100 010 000 111 001 100 110 001 000 |
| Fimb_punctata_WA | TTC GA: ::: ::: 000 000 000 100 010 000 110 000 100 000 000 000 |
| Fimb_punctata_NT1 | TTC GAC ::: ::: 000 000 000 100 010 000 111 001 100 110 001 000 |
| Eleocharis_cylindrostachys | 100 000 000 000 000 000 000 001 000 001 010 001 010 000 000 000 |
| Schoenoplectus_littoralis | 001 010 101 000 000 000 000 000 100 001 000 001 010 000 000 100 |
| Bolboschoenus_caldwellii | 001 010 100 000 000 000 000 000 100 000 000 001 010 000 000 100 |
| Arthrostylis_aphylla_WA | 001 011 000 001 000 110 000 000 000 000 000 000 010 000 000 000 |
| Arthrostylis_aphylla_NT | 001 011 000 001 000 110 000 000 000 000 000 000 010 000 000 000 |
| Actinoschoenus_NT1 | 000 000 000 000 000 000 000 000 000 000 000 000 100 010 000 000 000 |
| Actinoschoenus_WA | 001 011 000 001 000 110 000 000 000 000 000 000 010 000 000 000 |
| Abil_oxystachya | 100 000 000 000 000 000 000 100 000 000 000 000 000 000 000 000 |
| Abil_vaginata | 100 000 000 000 000 000 000 000 001 000 000 000 000 000 000 010 |
| Abil_schoenoides | 100 000 000 000 000 000 000 100 000 000 000 000 000 000 000 000 |
| Abil_pachyptera | 100 000 000 000 000 000 000 000 000 000 000 000 000 000 001 000 |
| Abil_ovata | 100 000 000 000 000 000 000 000 001 000 000 000 000 000 100 000 |
| Bulb_berbata | 000 010 100 000 010 101 000 010 010 000 000 010 010 000 000 001 |
| Bulb_densa | 001 000 110 000 100 101 000 010 000 000 000 010 010 000 000 001 |
| Bulb_striatella | 001 010 110 000 100 101 000 000 010 000 000 010 010 000 000 001 |
| Bulb_sp_nov_1 | 000 110 100 000 011 101 000 010 000 000 000 010 010 010 000 001 |
| Fimb_littoralis | 010 000 000 000 000 000 000 000 000 000 000 000 000 000 010 000 |
| Cross_setifolia_NT_2 | 010 000 000 000 000 000 000 000 001 000 000 000 000 001 010 010 |
| Cross_setifolia_NT3 | 000 000 000 001 000 000 000 000 001 000 000 000 000 000 000 010 |
| Cross_setifolia_NT1 | 000 000 000 001 000 000 000 000 001 000 000 000 000 000 000 010 |
| Fimb_neilsonii | 000 000 000 000 000 000 000 000 000 000 100 000 000 000 000 000 |
| Fimb_cephalophora | 000 000 000 000 000 000 001 000 000 100 000 000 000 000 000 000 |
| Fimb_cinnamometorum_NSW | 000 000 001 100 000 000 001 000 000 000 000 000 000 100 000 000 000 |
| Fimb_arnhemensis | 100 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 |
| Fimb_compacta | 100 000 000 000 000 000 000 100 000 000 000 000 000 000 000 000 |
| Fimb_bisumbellata | 000 000 000 010 100 000 100 000 000 000 000 000 000 000 000 000 |
| Fimb_cinnamometorum_WA | 000 000 001 100 000 000 000 000 000 000 000 000 100 000 000 000 |
| Fimb_densa_WA | 000 000 000 000 000 000 010 000 000 010 110 000 000 000 000 000 |
| Fimb_dichotoma | 000 000 000 000 000 000 001 000 000 000 000 000 000 000 000 000 |
| Fimb_rara | 010 000 000 000 000 000 000 000 000 000 000 000 001 100 000 000 |
| Fimb_pterygosperma_WA1 | 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 |
| Fimb_lanceolata | 000 000 000 000 000 000 001 000 000 000 000 000 000 000 000 000 |
| Fimb_microcarya_WA1 | 100 000 000 000 000 000 001 000 000 000 000 000 000 000 000 000 |
| Fimb_natans | 100 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 |
| Fimb_pterygosperma_NT | 100 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 |
| Fimb_microcarya_WA2 | 100 000 000 000 000 000 001 000 000 000 000 000 000 000 000 000 |
| Fimb_laxiglumis | 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 |
| Fimb_polytrichoides | 000 000 000 010 000 000 100 000 000 000 000 000 000 000 000 000 |
| Fimb_velata | 000 000 000 000 100 000 000 000 000 000 000 000 000 000 000 000 |
| Fimb_sieberiana | 000 000 000 010 100 000 001 000 000 000 000 000 000 000 000 000 |
| Fimb_cericea | 000 000 000 000 000 000 001 000 000 100 000 000 000 000 100 000 |
| Fimb_ferruginea | 010 000 000 000 000 000 000 000 000 000 000 000 001 100 001 000 |
| Fimb_tristachya | 000 000 000 010 000 000 001 000 000 000 000 000 000 001 100 000 |
| Fimb_tetragona_WA | 010 000 000 000 000 000 000 000 000 000 001 000 000 000 000 000 |
| Fimb_densa_NT | 000 000 000 000 000 000 010 000 000 010 110 000 000 000 000 000 |
| Fimb_schultzii | 100 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 |
| Fimb_tetragona_Qld | 010 000 000 000 000 000 000 000 000 000 001 000 000 000 000 000 |
| Fimb_cymosa | 000 000 000 000 000 000 000 000 000 010 000 000 000 000 000 000 |
| Actinoschoenus_NT2 | 001 011 000 001 000 110 000 000 000 000 000 100 010 000 000 000 |
| Bulb_sp_nov_3 | 000 110 100 000 001 101 000 010 000 000 000 010 010 010 000 001 |
| Bulb_sp_nov_2 | 000 110 100 000 011 101 000 010 000 000 000 010 010 010 000 001 |
| Fimb_pterygosperma_WA2 | 100 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 |
| Fimb_punctata_NT2 | 000 000 000 000 000 000 100 000 000 000 000 000 000 000 000 000 |
| Fimb_punctata_WA | 100 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 |
| Fimb_punctata_NT1 | 000 000 000 000 000 000 100 000 000 000 000 000 000 000 000 000 |
| Eleocharis_cylindrostachys | 110 010 000 000 |
| Schoenoplectus_littoralis | 111 000 000 010 |
| Bolboschoenus_caldwellii | 101 000 000 010 |
| Arthrostylis_aphylla_WA | 000 001 000 001 |
| Arthrostylis_aphylla_NT | 000 001 000 001 |
| Actinoschoenus_NT1 | 000 001 000 100 |
| Actinoschoenus_WA | 000 000 000 001 |
| Abil_oxystachya | 000 000 000 000 |
| Abil_vaginata | 000 000 001 000 |

| | | | | |
|-------------------------|-----|-----|-----|-----|
| Abil_schoenoides | 000 | 000 | 000 | 000 |
| Abil_pachptera | 000 | 000 | 010 | 000 |
| Abil_ovata | 000 | 000 | 000 | 000 |
| Bulb_barbata | 000 | 000 | 000 | 000 |
| Bulb_densa | 000 | 000 | 100 | 000 |
| Bulb_striatella | 000 | 000 | 100 | 000 |
| Bulb_sp_nov_1 | 000 | 000 | 100 | 000 |
| Fimb_littoralis | 000 | 000 | 000 | 000 |
| Cross_setifolia_NT2 | 000 | 000 | 000 | 000 |
| Cross_setifolia_NT3 | 000 | 000 | 001 | 001 |
| Cross_setifolia_NT1 | 000 | 000 | 001 | 001 |
| Fimb_neilsonii | 000 | 000 | 001 | 000 |
| Fimb_cephalophora | 000 | 010 | 000 | 000 |
| Fimb_cinnamometorum_NSW | 000 | 000 | 001 | 000 |
| Fimb_arnhemensis | 000 | 000 | 010 | 000 |
| Fimb_compacta | 000 | 010 | 000 | 000 |
| Fimb_bisumbellata | 000 | 000 | 010 | 000 |
| Fimb_cinnamometorum_WA | 000 | 000 | 000 | 000 |
| Fimb_densa_WA | 000 | 001 | 000 | 000 |
| Fimb_dichotoma | 000 | 000 | 010 | 000 |
| Fimb_rara | 000 | 100 | 000 | 000 |
| Fimb_pterygosperma_WA1 | 000 | 010 | 000 | 000 |
| Fimb_lanceolata | 000 | 000 | 000 | 000 |
| Fimb_microcarya_WA1 | 000 | 000 | 000 | 000 |
| Fimb_nutans | 000 | 000 | 000 | 000 |
| Fimb_pterygosperma_NT | 000 | 010 | 000 | 000 |
| Fimb_microcarya_WA2 | 000 | 000 | 000 | 000 |
| Fimb_laxiglumis | 000 | 000 | 010 | 000 |
| Fimb_polytrichoides | 000 | 000 | 001 | 000 |
| Fimb_velata | 000 | 000 | 010 | 000 |
| Fimb_sieberiana | 000 | 000 | 000 | 000 |
| Fimb_cericea | 000 | 000 | 000 | 000 |
| Fimb_ferruginea | 000 | 100 | 000 | 000 |
| Fimb_tristachya | 000 | 000 | 000 | 000 |
| Fimb_tetragona_WA | 000 | 000 | 000 | 000 |
| Fimb_densa_NT | 000 | 001 | 000 | 000 |
| Fimb_schultzii | 000 | 000 | 010 | 000 |
| Fimb_tetragona_Qld | 000 | 000 | 000 | 000 |
| Fimb_cymosa | 000 | 000 | 010 | 000 |
| Actin_schoenus_NT2 | 000 | 001 | 000 | 100 |
| Bulb_sp_nov_3 | 000 | 000 | 100 | 000 |
| Bulb_sp_nov_2 | 000 | 000 | 100 | 000 |
| Fimb_pterygosperma_WA2 | 000 | 010 | 000 | 000 |
| Fimb_punctata_NT2 | 000 | 000 | 000 | 000 |
| Fimb_punctata_WA | 000 | 000 | 000 | 000 |
| Fimb_punctata_NT1 | 000 | 000 | 000 | 000 |

Appendix 4. Data set for phylogenetic analysis of ITS

Nexus file format with 53 terminal taxa and 878 characters.

```

Eleocharis_cylindrostachys ::: ::: ::: ::: ::: :T AAC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Schoenoplectus_littoralis ::: ::: ::: ::: ::: :GT AAC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Bolboschoenus_caldwellii ::: ::: ::: ::: ::: :G GAT AAC AAG ACC :CG CGC ACA :C
Arthrostylis_a_WA ::: ::: ::: ::: ::: :CG GAG AAC GCG ACC :GG CGC ACG :C
Arthrostylis_aphylla_NT :GG ATC ATT GTT GTT GCC TTT :CG GAG AAT GCG ACC :CG CGC ACG :C
Actinoschoenus_NT1 AGG ATC ATT GTT GTT GCC TTT :CG GAG AAC GCG ACC :CG TGC ACG :T
Actinoschoenus_WA AGG ATC ATT GTT GTT GCC TTT :CG GAG AAC GCG ACC :CG TGC ACG :T
Abil_oxystachya AGG ATC ATT GTT GTT GCC TTT GA: :AA AAT ACG ACC :TG TGC ACA :C
Abil_vaginata AGG ATC ATT GTT GTT GCC TTT AC: :A AAC GCG ACC :AG TGC ACA :C
Abil_schoenoides ::: ::: ::: ::: ::: :G GAT AAC AAG ACC :CG CGC ACA :C
Abil_pachptera ::: ::: ::: ::: ::: :G GAT AAC AAG ACC :CG CGC ACA :C
Abil_ovata AGG ATC ATT GTT GTT GCC TTT A: GAA AAC ACG ACC :TG TGC ACA :T
Bulb_barbata AGG ATC ATT GCT GTC TCT TCT T:T GAG AAA ABA ACC :AG CGC ACA :T
Bulb_densa AGG ATC ATT GTT GTT GCC TTT :C: GAG AAC ACG ACC :AG CGC ACA :T
Bulb_striatella AGG ATC ATT GTT GTT GCC TTT T:T GAG AAC ACG ACC :AG CGC ACA :T
Bulb_sp_nov_1 ::: ::: ::: :T GTC GCC TTT :C: GAG AAC ACG ACC CAG CGC ACA :C
Fimb_littoralis AGG ATC ATT GAT GTT GCC TTT AC: :AA AAC ACG ACC :TG TGC ACA :T
Cross_setifolia_NT_2 AGG ATC ATT GTT GTT GCC TTT AC: :A AAC ACG ACC :AG TGC ACA :C
Cross_setifolia_NT3 AGG ATC ATT GTT GTT GCC TTT :G GAT AAC AAG ACC :CG CGC ACA :C
Cross_setifolia_NT1 ::: ::: :AC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Fimb_neilsonii TIG GAA GT: AAA AGG CGT AAC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Fimb_cephalophora ::: ::: :G TGA ACC TGC GGA
Fimb_cinnamometorum_NSW T:C CGT AGG TGA ACC TGC GGA
Fimb_arnhemensis T:C CGT AGG TGA ACC TGC GGA
Fimb_compacta T:C CGT AGG TGA ACC TGC GGA
Fimb_bisumbellata T:C CGT AAG TGA ACC TGC GGA
Fimb_cinnamometorum_WA ::: ::: :C AAG GTT T:C CGT AGG TGA ACC TGC GGA
Fimb_densa_WA A: :G CGT AAC AAG GTT TCC CGT AGG TGA ACC TGC GGA
Fimb_dichotoma ::: ::: :AG TGA ACC TGC GGA
Fimb_rara TCC GT: ::: :AG TGA ACC TGC GGA
Fimb_pterygosperma_WA1 ::: ::: :AC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Fimb_lanceolata AGC GT: ::: :AC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Fimb_microcarya_WA1 ::: ::: :CC TGC GGA
Fimb_nutans G: :G TGA ACC TGC GGA
Fimb_pterygosperma_NT G: :G TGA ACC TGC GGA
Fimb_microcarya_WA2 ::: ::: :CC TGC GGA
Fimb_laxiglumis T:C CGT AGG TGA ACC TGC GGA
Fimb_polytrichoides TCG GAA GT: AAA AGT CGT AAC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Fimb_velata TCG GAA GT: AAA AGT CGT AAC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Fimb_sieberiana ::: ::: :AC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Fimb_cericea ::: ::: :G TGA ACC TGC GGA
Fimb_ferruginea ::: ::: :AC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Fimb_tristachya T:C CGT AGG TGA ACC TGC GGA
Fimb_tetragona_WA T:C GT: ::: :GG TGA ACC TGC GGA
Fimb_densa_NT ::: ::: :AC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Fimb_schultzei T: :CGT AGG TGA ACC TGC GGA
Fimb_tetragona_Qld T: :CGT AGG TGA ACC TGC GGA
Fimb_cymosa ::: ::: :G: ACC TGC GGA
Fimb_acuminata ::: ::: :G TGA ACC TGC GGA
Fimb_pauciflora ::: ::: :GT AGG TGA ACC TGC GGA
Fimb_polytrichoides_2 TCG GAA GTA AAA AGG CGT AAC AAG GTT T:C CGT AGG TGA ACC TGC GGA
Cross_setifolia_WA1 ::: ::: :CGT AGG TGA ACC TGC GGA
Cross_setifolia_WA2 ::: ::: :T:C CGT AGG TGA ACC TGC GGA

Eleocharis_cylindrostachys AGG ATC ATT GTT GTT GCC TTT :T GAA AAC ACG ACC :CG TGC ACG :A
Schoenoplectus_littoralis AGG ATC ATT GTT GTT GCC TTT :G GAT AAC ACG ACC :CG CGC ACA :C
Bolboschoenus_caldwellii AGG ATC ATT GTT GTT GCC TTT :G GAT AAC AAG ACC :CG CGC ACA :C
Arthrostylis_a_WA AGG ATC ATT GCT GTT GCC TTT :CG GAG AAC GCG ACC :GG CGC ACG :C
Arthrostylis_aphylla_NT :GG ATC ATT GTT GTT GCC TTT :CG GAG AAT GCG ACC :CG CGC ACG :C
Actinoschoenus_NT1 AGG ATC ATT GTT GTT GCC TTT :CG GAG AAC GCG ACC :CG TGC ACG :T
Actinoschoenus_WA AGG ATC ATT GTT GTT GCC TTT :CG GAG AAC GCG ACC :CG TGC ACG :T
Abil_oxystachya AGG ATC ATT GTT GTT GCC TTT GA: :AA AAT ACG ACC :TG TGC ACA :C
Abil_vaginata AGG ATC ATT GTT GTT GCC TTT AC: :A AAC GCG ACC :AG TGC ACA :C
Abil_schoenoides ::: ::: :G GAT AAC AAG ACC :CG CGC ACA :C
Abil_pachptera ::: ::: :G GAT AAC AAG ACC :CG CGC ACA :C
Abil_ovata AGG ATC ATT GTT GTT GCC TTT A: GAA AAC ACG ACC :TG TGC ACA :T
Bulb_barbata AGG ATC ATT GCT GTC TCT TCT T:T GAG AAA ABA ACC :AG CGC ACA :T
Bulb_densa AGG ATC ATT GTT GTT GCC TTT :C: GAG AAC ACG ACC :AG CGC ACA :T
Bulb_striatella AGG ATC ATT GTT GTT GCC TTT T:T GAG AAC ACG ACC :AG CGC ACA :T
Bulb_sp_nov_1 ::: ::: :T GTC GCC TTT :C: GAG AAC ACG ACC CAG CGC ACA :C
Fimb_littoralis AGG ATC ATT GAT GTT GCC TTT AC: :AA AAC ACG ACC :TG TGC ACA :T
Cross_setifolia_NT_2 AGG ATC ATT GTT GTT GCC TTT AC: :A AAC ACG ACC :AG TGC ACA :C

```

| | |
|----------------------------|---|
| Cross_setifolia_NT3 | AGG ATC ATT GTT GTT GCC TTT AC: ::A AAC CCG ACC :AG TGC ACA ::C |
| Cross_setifolia_NT1 | AGG ATC ATT GTT GTT GCC TTT AC: ::A AAC CCG ACC :AG TGC ACA ::C |
| Fimb_neilsonii | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG ACC :CG TGC ACA ::T |
| Fimb_cephalophora | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG AC: TTG TGC ACA ::T |
| Fimb_cinnamometorum_NSW | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG AC: TTG TGC ACA ::T |
| Fimb_arnhemensis | AGG ATC ATT GTT GTT GCC TAT AC: :AA AAC ACG ACC :TG TGC ACA ::A |
| Fimb_compacta | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG AC: TTG TGC ACA ::T |
| Fimb_bisumbellata | AGG ATC ATT GAT GTT GCC TTT AC: :AA AAC ACG ACC :TG TGC ACA ::T |
| Fimb_cinnamometorum_WA | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG AC: TTG TGC ACA ::T |
| Fimb_densa_WA | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG AC: TTG TGC ACA ::T |
| Fimb_dichotoma | ::: ::: ::: ::: ::: T GCC TTT AC: :AA AAC ACG ACC :CG TGG ACA ::T |
| Fimb_rara | AGG ATC ATT GTT GAT GCC TTT A:: GAA AAC ACG AC: TCG TGC TCA ::C |
| Fimb_pterygosperma_WA1 | AGG ATC ATT GTT GTT GCC TCT AC: :CA AAC ACG ACC :TG TGC ACA TGT |
| Fimb_lanceolata | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG AC: TTG TGC ACA ::T |
| Fimb_microcarya_WA1 | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAT ACG ACC :TG TGC ACA ::T |
| Fimb_nutans | ::: ::: ::: ::: GTC GCC TCT AC: :AA AAC ACG ACC :TG TGC ACA ::C |
| Fimb_pterygosperma_NT | AGG ATC ATT GTT GTT GCC TTT AC: :CA AAC ACG ACC :TG TGC ACA TGT |
| Fimb_macrocaria_WA2 | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAT ACG ACC :TG TGC ACA ::T |
| Fimb_laxiglumis | ::: ::: ::: ::: ::: ::: ::: ::: T:C CGT AGG TGA ACC TGC GGA |
| Fimb_polytrichoides | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC AAG ACC :CG TGC ACA ::C |
| Fimb_velata | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG ACC :CG TGC ACA ::T |
| Fimb_sieberiana | AGG ATC ATT GTT GTT GCC TAT AC: :AA AAC ACG ACC :TG TGC ACA ::T |
| Fimb_sericea | ::: ::: ::: ::: GTT GCC TTT AC: :AA AAC ACG ACC :CG TGC ACA ::T |
| Fimb_ferruginea | AGG ATC ATT GTT GAT GCC TTT A:: GAA AAC ACG AC: TCG TGC TCA ::C |
| Fimb_tristachya | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG ACC :CG TGC ACA ::T |
| Fimb_tetragona_WA | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG AC: TTG CGC ACA ::C |
| Fimb_densa_NT | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG AC: TTG TGC ACA ::T |
| Fimb_schultzii | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG ACC :TG TGC ACA ::T |
| Fimb_tetragona_Old | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ATG AC: TTG CGC ACA ::C |
| Fimb_cymosa | AGG ATC ATT GTT GCT GCC TTT AC: GAA AAC ACG ACC :CG TGC ACA ::T |
| Fimb_aminata | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG ACC :TG TGC ACA ::T |
| Fimb_pauciflora | AGG ATC ATT GTT GTT GCC TTT AC: :AA AAC ACG ACC :CG TGC ACA ::C |
| Fimb_polytrichoides_2 | AGG ATC ATT GTT GTT GCC TTT A:: GAA AAC AAG ACC :CG TGC ACA ::T |
| Cross_setifolia_WA1 | AGG ATC ATT GTT GTT GCC TTT AC: ::A AAC CCG ACC :AG TGC ACA ::C |
| Cross_setifolia_WA2 | AGG ATC ATT GTT GTT GCC TTT AC: ::A AAC CCG ACC :AG TGC ACA ::C |
| Eleocharis_cylindrostachys | GTA AAG AA: AC: CTG CC: GGG GAG GGA AG: :CC TCC TCG GCT C:: CAC |
| Schoenoplectus_littoralis | GTT ACG GA: AA: CCG TC: GGG GAG G:A CTC GCC TCC TCG GCC CCC ATC |
| Bolboschoenus_caldwellii | GTT ACG GA: AA: CCG TC: GGG GAG G:A CTC GCC TCC TCG GCC CCC ATC |
| Arthrostylis_a_WA | GTA AAG CAC AA: CCG CC: GCG GAG A:A GCC TTC TCC TCG GCC C:: TGC |
| Arthrostylis_aphylla_NT | GTA AAG CAC AA: TCG CC: GTG GAG A:A GCC TTC TCC TCG GCC C:: TAC |
| Actinoschoenus_NT1 | GTA AAG CAT AA: TCG CC: GCG GAG A:A GCC TTC TCC TCG GCC C:: TAC |
| Actinoschoenus_WA | GTA AAG CAT AA: TCG CC: GCG GAG A:A GCC TTC TCC TCG GCC C:: TAC |
| Abil_cxystachya | GTC ATG CA: AA: CTG CC: GAG GAG ATA :CC TTC TCC TCG GCC C:: AAC |
| Abil_vaginata | GTA ATG CA: AA: CTG CT: GAG TAG G:A ATG TTC TTC TCA GCC C:: AAC |
| Abil_schoenoides | GTC ACG CA: AA: CTG CC: GAG GAG GGA CCC TTC TCC TCG GCC C:: AAC |
| Abil_pachptera | GTC ACG CA: AA: CTG CC: GAG GAG GGA :CC TTC TCC TCG GCC C:: AAC |
| Abil_cvata | GTC ATG TA: AT: CTG CC: GAG GAG A:A ACC ATC TCC TCG GCC C:A AAC |
| Bulb_barbata | GTA ATG CA: AA: CCG TC: GAG GAG TT: :: TTC TCC TCG ACC C:: CAC |
| Bulb_censa | GTA ACG CA: AA: CCG CC: GAG GA: TTA :: TTC TCC TCG GCC C:: AAC |
| Bulb_striatella | GTA ATG CA: AA: CCG CC: GAG GAG TT: :: TTC TCC TCG GCC C:: CAC |
| Bulb_sp_nov_1 | GTA ACG CAA AA: CCG TC: GAG GAG TT: :: CTC TCC TCG GCC A:: CAC |
| Fimb_littoralis | GTA ATG CA: AAA TTG CT: GGG G:A G:A ACG TTC TCC TCA GCC C:: AAC |
| Cross_setifolia_NT_2 | GTA ATG CA: AAG CTG CT: GAG TAG G:A ATG TTC TTC TCA GCC C:: AAC |
| Cross_setifolia_NT3 | GTA ATG CA: AAG CTG CT: GAG TAG G:A ATG TTC TTC TCA GCC C:: AAC |
| Cross_setifolia_NT1 | GTA ATG CA: AAG CTG CT: GAG TAG G:A ATG TTC TTC TCA GCC C:: AAC |
| Fimb_neilsonii | GTA ATG CA: AAG CTG CT: GAG GAG G:A ATG TTC TCT TCA GCC C:: AAC |
| Fimb_cephalophora | GTA ATC TA: AFG TTG CT: GAG GAG G:A ACA ATC TCC TTA GCC C:: AAC |
| Fimb_cinnamometorum_NSW | GTA ATG CA: AFG CTG CT: GCG GGG G:A ACG TTC TCC CCA GCC C:: AAC |
| Fimb_arnhemensis | GTA ATG CA: AFT CTG CT: GAG GAG G:A ATG TTC TCC TCA GCC C:: AAC |
| Fimb_compacta | GTA ATC TA: AFG TTG CT: GAG GAG G:A ACA ATC TCC TTA GCC C:: AAC |
| Fimb_bisumbellata | GTA ATG CA: AFG CTG CT: GAG GGG G:A ATG TTC TCC TCA GCT C:: AAC |
| Fimb_cinnamometorum_WA | GTA ATG CA: AFG CTG CT: GCG GGG G:A ACG TTC TCC CCA GCC C:: AAC |
| Fimb_densa_WA | GTA ATG CA: AFG CCG CT: GAG GAG G:A AFG TTC TCC TCA GCC CCC AAC |
| Fimb_dichotoma | GTA ATG CA: AFA CTG CT: GAG GGG GGA ATG TTC TCC TCA GCC C:: TAC |
| Fimb_rara | GTA ACG CA: AFA CCG CT: GGG GAG G:A AFG TTC TCC TCG GCC C:: AAC |
| Fimb_pterygosperma_WA1 | GTA ATG CA: AFA CTG CT: GAG GAG G:A ACG TTC TCC TCA GCC C:: AAC |
| Fimb_lanceolata | GTA ATC TA: AFG TTG CT: GAG GAG G:A ACG TTC TCC TTA GCC C:: AAC |
| Fimb_microcarya_WA1 | GTA ATG CA: AFG CTG CT: GAA GGG G:A ATG TTC TCC TCA GCC C:: AAC |
| Fimb_nutans | GTA ATG CA: AFG CTG CT: GAG GAG G:A ATG TTC TCC TCA GCC C:: GAC |
| Fimb_pterygosperma_NT | GTA ATG CA: AFA CTG CT: GAG GAG G:A ACG TTC TCC TCA GCC C:: AAC |
| Fimb_microcarya_WA2 | GTA ATG CA: AFT CTG CT: GAA GGG G:A ATG TTC TCC TCA GCC C:: AAC |
| Fimb_laxiglumis | GTA ATT CA: AFG CTG CT: GAG GAG T:G ATG TTC TCC TCG GCC C:: AAC |
| Fimb_polytrichoides | GTA ATG CA: AFA CTG CTA GAG GGG G:A ATG TTC TCC TCA GCC C:: TAC |
| Fimb_velata | GTA ATG TA: AFA CTG CT: GAG GGG G:A ATG TTC TCC TCA GCC C:: TAC |
| Fimb_sieberiana | GTA ATG CA: AFA CTG CT: GAG GGG A:A ATG TTC TCC TCA GCC C:: AAC |
| Fimb_sericea | GTA ATG CA: AAG CTG CT: GAG GAG G:A ATG TTC TCT TCA GCC C:: AAC |

| | | | | | | | | | | | | | | | | |
|----------------------------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Fimb_ferruginea | GTA | ACG | CA: | AAA | CCG | CT: | GGG | GAG | G:A | ATG | TTC | TCC | TCC | GCC | C:: | AAC |
| Fimb_tristachya | GTA | ATG | CA: | AAG | CTG | CT: | GAG | TGG | G:A | ACG | TTC | TCC | TCA | GCC | C:: | AAC |
| Fimb_tetragona_WA | GTA | ATG | CA: | AAG | CTG | CT: | GAG | GAA | G:A | ACC | TTC | TCC | TCA | GCC | C:: | AAC |
| Fimb_densa_NT | GTA | ATG | CA: | ATG | CCG | CT: | GAG | GAG | G:A | ATG | TTC | TTC | TCA | GCC | CCC | AAC |
| Fimb_schultzii | GTA | ATG | CA: | AAG | CCG | CT: | GAG | GAG | G:A | ATG | TTC | TCC | TCA | GCC | C:: | AAC |
| Fimb_tetragona_Qld | GTA | ATG | CA: | AAG | CTG | CT: | GAG | GAG | G:A | ACC | TTC | TCC | TCA | GCC | C:: | AAC |
| Fimb_cymosa | GTA | ATG | CA: | AAG | CTG | CT: | GAG | GAG | G:A | ACG | TTC | TTC | TCA | GCC | C:: | AAC |
| Fimb_acuminata | GTA | ATG | CA: | AAG | CTG | CT: | GAG | GAG | G:A | ATG | TTC | TCC | TCA | GCC | C:: | AAC |
| Fimb_pauciflora | GTA | ATA | CA: | AAG | TTG | CT: | GAG | GAG | G:A | ATG | TTC | TCC | TCC | GCC | C:: | AAC |
| Fimb_polytrichoides_2 | GTA | ATG | CA: | AAA | CTG | CT: | GAG | GGG | G:A | ATG | TTC | TCC | TCA | GCC | C:: | TAC |
| Cross_setifolia_WA1 | GTA | ATG | CA: | AAG | CTG | CT: | GAG | TAG | G:A | ATG | TTC | TTC | TCA | GCC | C:: | AAC |
| Cross_setifolia_WA2 | GTA | ATG | CA: | AAG | CTG | CT: | GAG | TAG | G:A | ATG | TTC | TTC | TCA | GCC | C:: | AAC |
| Eleocharis_cylindrostachys | CGA | CCC | CG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | GTG | CTG | GTC | GTG |
| Schoenocleptus_littoralis | :GG | CCC | T:: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | GTG | CTG | GTC | AT: |
| Bolboschoenus_caldwellii | :GG | CCT | T:: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | GTG | CTG | GTC | AT: |
| Arthrostylis_a_WA | CGG | CCC | CG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ACG | CTG | GTC | GCG |
| Arthrostylis_aphylla_NT | CGG | CCC | CG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ACG | CTG | GTC | GTG |
| Actinoschoenus_NT1 | CGG | CCT | CG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ACG | CTG | GTC | GTG |
| Actinoschoenus_WA | CGG | CCT | CG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ACG | CTG | GTC | GTG |
| Abil_oxystachya | CGG | CCT | CG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ACG | TCC | GTC | GTG |
| Abil_vaginata | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | ATG | GTT | GCG |
| Abil_schoenoides | CGG | CCT | CG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ACG | TCC | GTC | GTG |
| Abil_pachptera | CCT | CCT | CG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ACG | TTG | GTC | GTG |
| Abil_ovata | CGG | CCT | CRA | CCT | TCT | GTG | TCT | TIT | ::: | ::: | CGG | C:: | ATG | TYG | GGT | GTG |
| Bulb_barbata | CGG | CCC | CT: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TCC | GCT | GTG |
| Bulb_densa | CG: | CCC | CGG | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | CTG | GCC | GCG |
| Bulb_striatella | CGG | :CC | CGG | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | CTG | GCT | GTG |
| Bulb_sp_nov_1 | CGG | TCC | CGG | CC: | THG | ATG | CTT | CCG | CAC | AAG | CGG | CAT | ACG | TCC | GCC | GTG |
| Cross_setifolia_NT_2 | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | ATG | GTT | GCG |
| Fimb_littoralis | CGG | :CC | TCC | CG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTC | GTT | GTG |
| Cross_setifolia_NT3 | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | ATG | GTT | GCG |
| Cross_setifolia_NT1 | CGG | GTC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | ATG | GTT | GCG |
| Fimb_neilsonii | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTG |
| Fimb_cephalophora | CGA | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTG |
| Fimb_cinnamometorum_NSW | CGG | :::T | TGG | C: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GGT |
| Fimb_arnhemensis | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ACG | TTG | GTT | GCG |
| Fimb_compacta | CGA | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTG |
| Fimb_bisumbellata | C:G | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTT |
| Fimb_cinnamometorum_WA | CGG | :::T | TGG | C: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GGT |
| Fimb_densa_WA | CGA | GCC | TT: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TTG | GTT | ACG |
| Fimb_dichotoma | CGG | G:C | TCA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTT |
| Fimb_rara | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TGG | GTT | GTG |
| Fimb_pterygosperma_WA1 | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTG |
| Fimb_lanceolata | CGA | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTG |
| Fimb_microcarya_WA1 | C:G | GTC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GGT |
| Fimb_nutans | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GCG |
| Fimb_pterygosperma_NT | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTG |
| Fimb_microcarya_WA2 | C:G | GTC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GGT |
| Fimb_laxiglumis | C:A | TCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | GTG | TTG | GTC | GTG |
| Fimb_polytrichoides | CGG | :CC | TCA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTC |
| Fimb_velata | CGG | :CC | TCA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTT |
| Fimb_sieberiana | CGG | :CC | TCA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | GTG | CTG | GTT | GTT |
| Fimb_cericea | CGG | GCC | TCA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTG |
| Fimb_ferruginea | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TGG | GTT | GTG |
| Fimb_tristachya | C:G | GTC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTT |
| Fimb_tetragona_WA | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTG |
| Fimb_densa_NT | CGG | GCC | TT: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATA | TTG | GT: | ACG |
| Fimb_schultzii | CGG | GCC | TT: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ACG | TTG | GTT | GCG |
| Fimb_tetragona_Qld | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTG |
| Fimb_cymosa | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ACG | TTG | GTT | GTG |
| Fimb_acuminata | CGA | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GCA |
| Fimb_pauciflora | CGG | GCC | TT: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TCC | GTT | GCG |
| Fimb_polytrichoides_2 | CGG | :CC | TCA | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GTC |
| Cross_setifolia_WA1 | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GCG |
| Cross_setifolia_WA2 | CGG | GCC | TC: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ATG | TTG | GTT | GCG |
| Eleocharis_cylindrostachys | :GT | GTC | GGA | ACA | :CG | GCG | TGG | GTT | GAC | GCC | AAG | GAA | :TA | C:A | TG: | TTT |
| Schoenocleptus_littoralis | :GT | GTC | GGA | ATA | :CG | GCG | CAG | GAT | GAC | GCC | AAG | GAA | :CA | C:A | TA: | TTT |
| Bolboschoenus_caldwellii | :GT | GTC | GGA | ATA | :CG | GCG | CAG | GAT | GAC | GCC | AAG | GAA | :CA | C:A | TA: | TTT |
| Arthrostylis_a_WA | :GT | GTC | GGA | ATA | :CG | GCG | CGG | AAT | GAC | GCC | AAG | GAA | :TA | C:A | GA: | TTT |
| Arthrostylis_aphylla_NT | :GC | GTC | GGA | ATA | :CG | GCG | CGG | AAC | GAC | GCC | AAG | GAA | :CA | C:A | GA: | TT: |
| Actinoschoenus_NT1 | :GT | GTC | GGA | ATA | :CG | GCG | CGG | AAT | GAC | GCC | AAG | GAA | :TA | C:A | GA: | TT: |
| Actinoschoenus_WA | :GT | GTC | GGA | ATA | :CG | GCG | CGG | AAT | GAC | GCC | AAG | GAA | :TA | C:A | GA: | TT: |
| Abil_oxystachya | :GT | ATC | GGA | A:A | :CG | GCG | CGG | ACT | GTC | GCC | AAG | GAA | :CA | TTA | GA: | TAT |
| Abil_vaginata | :GC | ACC | GGA | A:A | :CG | GCG | CGG | A:TT | GTC | GCC | AAG | GAA | :TA | TTA | GA: | CT: |
| Abil_schoenoides | TGT | ATC | GGA | A:A | :CG | GCG | CGG | ACT | GTC | GCC | AAG | GAA | :CA | TTA | GA: | TCT |

Abil_pachptera :GT ATC GGA AAA :CG GCG CGG ACT GTC GCC AAG GAA :CA TTA GA: TCT
 Abil_ovata :GT TTC GGA AAA :CG GCG CGG AAT GTC GCC AAG GAA :CA TTA GA: TWT
 Bulb_barbata :GT GTC GGA ATA :CG GCG CGG GAT GAC GCC AAG GAA :TA C:A GA: TTT
 Bulb_densa :GT GTC GGA ATA :CG GCG CGG GAT GAC GCC AAG GAA :TA C:A TAA TTT
 Bulb_striatella :GT GTC GGA ACA :CG GCG CGG GAT TGC GCC AAG GAA :TA C:A GAA TTT
 Bulb_sp_nov_1 :GV GTC GGA ACA :CG GCG CAG GAT GGC GCC AAG GAA :TA C:G GAA CTT
 Fimb_littoralis :GC ATC GGA AAA :CG GCG CGG AAT GTC GCC AAG GAA :TT TTA GA: TC:
 Cross_setifolia_NT_2 :GC ACC GGA AAA :CG GCG CGG ATT GTC GCC AAG GAA :TA TTA GA: CT:
 Cross_setifolia_NT3 :GC ACC GGA AAA :CG GCG CGG ATT GTC GCC AAG GAA :TA TTA GA: CT:
 Cross_setifolia_NT1 :GC ACC GGA AAA :CG GCG CGG ATT GTC GCC AAG GAA :TA TTA GA: CT:
 Fimb_neilsonii :GC ATC GGA AAA :CG GCG CGG AAT GTC GCC AAG GAA :TA TTA GA: TC:
 Fimb_cephalophora :GC ATC GGA AAA :CG GCG CGG AAT GTC GCC AAG GAA :TA TCA AAA TT:
 Fimb_cinnamometorum_NSW :GG ATC GGA AAA :CG GCG CGG AAT GTC GCC AAG GAA :TA TTA GA: TT:
 Fimb_arnhemensis :GC ATC GGA AAA :CG GCG CGG AAT GTC GCC AAG GAA :TA TTA GA: TT:
 Fimb_compacta :GC ATC GGA AAA :CG GCG CGG AAT GTC GCC AAG GAA :TA TCA AA: TT:
 Fimb_bisumbellata :GC ATC GGA AAA :CG GCG CGG GAT GTC GCC AAG GAA :TA TTA GA: TT:
 Fimb_cinnamometorum_WA :GG ATC GGA AAA :CG GCG CGG AAT GTC GCC AAG GAA :TA TTA GA: TT:
 Fimb_densa_WA :GC ATC GGA ATA :CG GCG CGG AAT GTC GCC AAG GAA :TA CCA GA: TC:
 Fimb_dichotoma :GC ATC GGA AAA :CG GCG CGG ATT GTC GCC AAG GAA :TA TTA GA: TC:
 Fimb_rara :GC ATC GGA AAA :CG GCG CGG AAT GTC GCC AAG GAA :TA TTA GA: TT:
 Fimb_pterygosperma_WA1 :GC ATC GGA AAA :CG GCG CGG ATT GTC GCC AAG GAA :TA TCA GA: TTT
 Fimb_lanceolata :GC ATC GGA AAA :CG GCG CGG AAT GTC GCC AAG GAA :TA TCA AA: TT:
 Fimb_microcarya_WA1 :GC ATC GGA AAA :CG GCG CGG AAT GTC GCC AAG GAA :TA TTT GGA TA:
 Fimb_nutans :GC TTC GGG AAF :CG GCG CGG AAT GTC GCC AAG GAA :TA TAA CA: TA:
 Fimb_pterygosperma_NT :GC ATC GGA AAF :CG GCG CGG ATT GTC GCC AAG GAA :TA TCA GA: TTT
 Fimb_macrocaria_WA2 :GC ATC GGA AAF :CG GCG CGG AAT GTC GCC AAG GAA :TA TTT GGA TA:
 Fimb_laxiglumis :GC ATC GGG AAF :CG GCG CGG GAT GTC GCC AAG GAA :TA TTA GA: TT:
 Fimb_polytrichoides :GC AAC GGA AAF :CG GCG CGG ATT GTC GCC AAG GAA :TA TTA GA: TC:
 Fimb_velata :GC ATC GGA AAF :CG GCG CGG ATG :GC GCC AAG GAA :TA TTA GA: TT:
 Fimb_sieberiana :GC TTC GGA AAF :CG GCG CGG GAT GTC GCC AAG GAA :TA TTA GA: TT:
 Fimb_cericea :GC ATC GGA AAF :CG GCG CGG AAT GTC GCC AAG GAA :TA TTA GA: TC:
 Fimb_ferruginea :GC ATC GGA AAF :CG GCG CGG AAT GTC GCC AAG GAA :TA TTA GA: TT:
 Fimb_tristachya :GT ATC GGA AAF :CG GCG CGG GAT GTC GCC AAG GAA :TA TTA GA: TTT
 Fimb_tetragona_WA :GT ATC GGA AAF :CG GCA CGG AAT GTC GCC AAG GAA :TA TCA GA: TT:
 Fimb_densa_NT :GC ATC GGA ATF :CG GCG CGG AAT GTC GCC AAG GAA :TA CCA GA: TC:
 Fimb_schultzei :GC ATC GGA AAF :CG GCG CGG AAT GCC GCC AAG GAG :TA TTA GA: TC:
 Fimb_tetragona_Old :GT ATC GGA AAF :CG GCA CGG AAT GTC GCC AAG GAA :TA TCA GA: TT:
 Fimb_cymosa :GC ATC GGA AAF :CG GCG CGG AAT GTC GCC AAG GAA :TA ATA GA: TC:
 Fimb_acuminata :GC ATC GGA AAF :CG GCG CGG AAT GTC GCC AAG GAA :TA TTG GA: AA:
 Fimb_pauciflora :GC TTC GGA AAF :CG GCG CGG AAT GTC GCC AAG GAA :TA TTA CA: TT:
 Fimb_polytrichoides_2 :GC ATC GGA AAF :CG GCG CGG ATT GTC GCC AAG GAA :TA TTA GA: TC:
 Cross_setifolia_WA1 :GC ACC GGA AAF :CG GCG CGG AAT GTC GCC AAG GAA :TA TTA GA: CT:
 Cross_setifolia_WA2 :GC ACC GGA AAF :CG GCG CGG AAT GTC GCC AAG GAA :TA TTA GA: CT:

 Eleocharis_cylindrostachys GCT GAG GCG GAT :GAC GAT ::: GC: TTC GGC GTC GCC G:: ::: ::: :AT
 Schoenoplectus_littoralis GCT GAG GCA GAT :GGC GAT ::: :CC :::C ACG CTC GGG TGT CGC GT: CGG
 Bolboschoenus_caldwellii GCT GAG GCA GAT :GGC GAT ::: :CC :::C ACG CTC GGG TGT CGC GT: CGG
 Arthrostylis_a_WA GCC GAG GCG GAT :GAC GAT ::: GC: ::: :::G GCG TCG CGT CGC GT: CGT
 Arthrostylis_aphylla_NT GTC GAG GCG GAT :GGC GAT ::: GC: ::: :::G GCG TPG CGC TGC GT: CGT
 Actinostachya_NT1 GCC GAG GCG GAT :GAC GAT ::: GC: ::: :::G TGC TPG CGT TGT GT: TGT
 Actinostachya_WA GCC GAG GCG GAT :GAC GAT ::: GC: ::: :::G TGC TPG CGT TGT GT: TGT
 Abil_coxystachya GCT GAG GCA GAT :GAC GAT ::: GCC ::: :::G CA: AGG TAT TTT GT: CGT
 Abil_vaginata GCC GAG GCA GAT :GAC ::: TT: GTC ::: :::G CA: ATG CGT TGG GT: TAT
 Abil_schoenoides GCT GAG GCG GAT :GAC GAT ::: GCC ::: :::G CA: AGG TAT TTC GT: CGT
 Abil_pachptera GCT GAG GCA GAT :GAC GAT ::: GCC ::: :::G CA: AGG TAT TTC GT: CGT
 Abil_ovata GCT GAG GCA GAT :GAC GAT ::: GCC ::: :::G CA: AGG TWT TGC GT: CTT
 Bulb_barbata GCT GAG GCA GAT :GAC GAT ::: :CC ::: :::G CAC GAG CGT TGC GT: TGT
 Bulb_densa GCC GAG GCA GAT :GAC GAT ::: :CC ::: :::G CTC TAG CGT TCC GT: TGT
 Bulb_striatella GCT GAG GCA GAT :GAC GAT ::: :CC T:: :::G GCG AAG CGT CCC GT: TGT
 Bulb_sp_nov_1 GCC GAG GCA GAT :GAC GAT ::: ACC ::: :::G CAC AAG CGC CGC GT: CGT
 Fimb_littoralis GCT GAG GCA GAT :GAC ::: :TA GCT ::: :::G CA: AGG TTT TGC AT: CGT
 Cross_setifolia_NT_2 GCC GAG GCA GAT :GAC ::: TT: GTC ::: :::G CA: ATG CGT TGG GT: TAT
 Cross_setifolia_NT3 GCC GAG GCA GAT :GAC ::: TT: GTC ::: :::G CA: ATG CGT TGG GT: TAT
 Cross_setifolia_NT1 GCC GAG GCA GAT :GAC ::: TT: GTC ::: :::G CA: ATG CGT TGG GT: TAT
 Fimb_neilsonii GCT GAG GCA GAT :GAT ::: :GT GCC ::: :::G CA: AGG TGT TGC GT: CTT
 Fimb_cephalophora GTC GAG GCA GAT :GAC ::: :TA GCC ::: :::G CA: AGG TGT TGT ::: CTT
 Fimb_cinnamometorum_NSW GCT GAA GCA GAT :GAC ::: :TA GCC TT: :::G AA: AGG TGC TGT GT: CAT
 Fimb_arnhemensis GTC GAG GCA GAT :GAC ::: :TA GCC ::: :::G CA: AGG TGT TGT GT: CGT
 Fimb_compacta GTC GAG GCA GAT :GAC ::: :TA GCC ::: :::G CA: AGG TGT TGT ::: CTT
 Fimb_bisumbellata GCC GAG GCA GAT :GAC GAT :TA GCC ::: :::G CA: AGG TGT TGC GT: TGT
 Fimb_cinnamometorum_WA GCT GAA GCA GAT :GAC ::: :TA GCC TC: :::G AA: TGG TGC TGT GT: CAT
 Fimb_densa_WA GCT GAT GCA GAT :GAC ::: :TA GCC ::: :::G CG: AGG TGT TGC GT: CGT
 Fimb_dichotoma GCT GAG GCA GAT :GAC GAC :TA GCC ::: :::G CA: AGG TGT TGC GT: TGT
 Fimb_rara GCC GAG GCA GAT :GAT ::: :TG GCC ::: :::G CA: GCG TGC TGC GC: CGT
 Fimb_pterygosperma_WA1 GCC GAG GCA GAT :GAC ::: :TA GCC ::: :CG CA: AGG TGT TGC GT: CGT
 Fimb_lanceolata GTC GAG GCA GAT :GAC ::: :TA GCC ::: :::G CA: AGG TGT TGT ::: CTT
 Fimb_microcarya_WA1 GCT GAA GCA GAT :GAC ::: :TA GCC ::: :::G CA: ACG TGT TTC GT: CGT

| | | | | |
|----------------------------|-------------------------|--------------------------|-----------------|---------|
| Fimb_nutans | GCT GAG GCA GAC GAT | :: :: :: :: :: :: :: :: | CAT TGT GT | CGT |
| Fimb_pterygosperma_NT | GCC CAG GCA GAT GAC | :: :TA GCC :: ::CG CA: | AGG TGT TGC GT | CGT |
| Fimb_microcarya_WA2 | GCT SAA GCA GAT GAC | :: :TA GCC :: ::G CA: | AGG TGT TTT GT | CGT |
| Fimb_laxiglumis | GCT GAG GCA GAT GAC | :: :TA GCC :: ::G CA: | AGG CAT TAT GT | CAT |
| Fimb_polytrichoides | GCT GAG GTA GAC GAC GAA | :TA GCT :: ::G TA: | AGG TGT TGC GT | TGT |
| Fimb_velata | GCT GAG GTA GAT GAC GAC | :TA GCC :: ::G TA: | AGG TGT TGC GT | TGT |
| Fimb_sieberiana | GCT GAG GCA GAT GAC GAC | :TA GCC :: ::G CA: | AGG TGT TGC GT | TGT |
| Fimb_cericea | GCT GAG GCA GAT GAT | :: :GT GCC :: ::G CA: | AGG TGT TGC GT | CTT |
| Fimb_ferruginea | GCC GAG GCA GAT GAT | :: :TG GCC :: ::G CA: | GCG TGC TGC GC | CGT |
| Fimb_tristachya | GCT GAT GCA GAT GAC GAC | TTA GCC :: ::G CA: | AGG TTT TGT GT | TGT |
| Fimb_tetragona_WA | GTC CAG GCA GAT GAC | :: :AA GCC :: ::G CA: | AGG TCT TGT GT | CTT |
| Fimb_densa_NT | GCT GAT GCA GAT GAC | :: :TA GCC :: ::G CG: | AGG TGT TGC GT | CGT |
| Fimb_schultzii | GCT GAG GCA GAT GAC | :: :TA GCC :: ::G CA: | AGA TGT TGC GT | CGT |
| Fimb_tetragona_Qld | GTC CAG GCA GAT GAC | :: :AA GCC :: ::G CA: | AGG TCT TGT GT | CTT |
| Fimb_cymosa | GCT GAG GCA GAT GAT | :: :GC GCC :: ::G CA: | AGG TAT TGC GT | CGT |
| Fimb_acuminata | GCT GAG GCA GAT GAT | :: :TA GCC :: ::G CA: | AGG TGT CGT GT | TGT |
| Fimb_pauciflora | GCT GAG GCA GAT GAC GAT | :TA GTC :: ::G CA: | AGG CAT TG | TTT CGT |
| Fimb_polytrichoides_2 | GCT GAG GTA GAT GAC GAC | :TA GCT :: ::G TA: | AGG TGT TGC GT | TGT |
| Cross_setifolia_WA1 | GCT GAG GCA GAT GAC | :: TT: GTC :: ::G CA: | ATG CGT TGG GT | TAT |
| Croos_setifolia_WA2 | GCT GAG GCA GAT GAC | :: TT: GTC :: ::G CA: | ATG CGT TCG GT | TAT |
| Eleocharis_cylindrostachys | CCG TC: GAG GCC AAA GT: | AAT AAA ATG AGA TGA CTC | CCG GCA ACG GAT | |
| Schoenocleptus_littoralis | CTG TC: GAG GCT ::C GGA | NAA AGG AAA ATA TGA CTC | TCC GCA ACG GAN | |
| Bolboschoenus_caldwellii | CTG TC: GAG GCT ::C GG: | AAA AGG AAA ATA TGA CTC | TCC GCA ACG GAT | |
| Arthrostylis_a_WA | CCG TC: GAG GCC GAA AC: | :: AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Arthrostylis_aphylla_NT | CTG TT: GAG GCC GAA GC: | :: AAA AAG AGA TGA CTC | CCG GCA ACG GAT | |
| Actinocchoenus_NT1 | CCG TC: GAG GCT GAA GC: | ::A AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Actinocchoenus_WA | CCG TC: GAG GCT GAA GC: | ::A AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Abil_coxystachya | CTG TTT GAG GCT AAA CG: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Abil_vaginata | CTG TT: GAG GCC AAA ::T | AAA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Abil_scheneides | CTG TTT GAG GCT AAA GG: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Abil_pachyptera | CTG TTT GAG GCT AAA GG: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Abil_ovata | CTG TTT GAG GCC AAA ::A | AAA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Bulb_barbata | CTG CT: GAG GCC AAA GT: | :AA GAA ATG AGA TGA CTC | CCG GCA ACG GAT | |
| Bulb_densa | CTG TC: GAG CCC CAA GT: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Bulb_striatella | CTG TC: GAG CCC CAA GT: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Bulb_sp_nov_1 | CTG CC: RAA GCC CAA GT: | AAA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_littoralis | CTG TT: AAG GCC AAA GCA | AAA AAA ATG AGA TGA CTC | CCG GCA ACG GAT | |
| Cross_setifolia_NT_2 | CTG TT: GAG GCC AAA ::T | AAA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Cross_setifolia_NT3 | CTG TT: GAG GCC AAA ::T | AAA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Cross_setifolia_NT1 | CTG TT: GAG GCC AAA ::T | AAA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_neilsonii | CTG TT: GAG GCC AAA GC: | :AA TAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_cephalophora | CTG TTT :AG GCC AAA GCA | AAA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_cinnamometorum_NSW | TTG CT: GAG GCC AAA GC: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_arnhemensis | CTG TT: GAG GCC AAA GC: | :AA AAA ATG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_compacta | CTG TTT :AG GCC AAA GCA | AAA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_bisumbellata | TTG CT: GAG GCC AAA GC: | :AT AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_cinnamometorum_WA | TTG CT: GAG GCC AAA GC: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_densa_WA | CTG TT: GAT GCC AAA GC: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_dichotoma | CTG CT: GAG GCC AAA GC: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_rara | CTG CC: GAA GCG AAA GC: | :AAC AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_pterygosperma_WA1 | CTG TT: GAG GCC AAA AC: | :AA ATA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_lanceolata | CTG TTT :AG GCC AAA GCA | AAA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_microcarya_WA1 | CTG CT: GAG GCC AAA GT: | :AA AAA ATG ACA TGA CTC | CCG GCA ACG GAT | |
| Fimb_nutans | CTG TTT :AG GCC AAA GC: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_pterygosperma_NT | CTG TT: GAG GCC AAA AC: | :AA ATA ACG ACA TGA CTC | CCG GCA ACG GAT | |
| Fimb_microcarya_WA2 | CTG CT: GAG GCC AAA GT: | :AA AAA ATG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_laxiglumis | ATG TT: GAG GCC AAA G:A | AAA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_polytrichoides | CTG CT: GAG GCC AAA GC: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_velata | CTG CT: AAG GC: AAA GT: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_sieberiana | CTG CT: GAG GC: GAA GC: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_cericea | CTG TT: GAG GC: AAA GC: | :AA TAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_ferruginea | CTG CC: GAA GC: AAA GC: | :AAC AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_tristachya | CTG CT: GAG GC: AAA GC: | :AT AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_tetragona_WA | CTG TC: GAG GC: AAA GC: | :AAA TAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_densa_NT | CTG TT: GAT GC: AAA GC: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_schultzii | CTG CT: GAT GC: AAA GC: | :AA AAA ACG AGA TGA CTC | CTG GCA ACG GAT | |
| Fimb_tetragona_Qld | CTG TC: GAG GC: AAA GC: | :AAA TAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_cymosa | CTG TT: GAG GC: AAA GC: | ::A AAA AAG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_acuminata | CTG CTT :AG GCA AAA GT: | AAA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_pauciflora | CTG TT: GAG GC: AAA GN: | :AA ATA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Fimb_polytrichoides_2 | CTG CT: GAG GC: AAA GC: | :AA AAA ACG AGA TGA CTC | CCG GCA ACG GAT | |
| Cross_setifolia_WA1 | CTG CT: GAG GC: AAA ::T | AAA AAA GCG AGA TGA CTC | CCG GCA ACG GAT | |
| Croos_setifolia_WA2 | CTG CT: GAG GC: AAA ::T | AAA AAA GCG AGA TGA CTC | CCG GCA ACG GAT | |
| Eleocharis_cylindrostachys | ATC TCG GCT CT: GCA TCG | ATG AAG AAC GTA GCG AAA | TGC GAT ACA TGG | |
| Schoerocleptus_littoralis | ATC TCG GCT CT: GCA TCG | ATG AAG AAC GTA GCG AAA | TGC GAT ACG TGG | |

| | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Bolboschoenus_caldwellii | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Arthrostylis_a_WA | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Arthrostylis_aphylla_NT | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Actinoschoenus_NT1 | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Actinoschoenus_WA | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Abil_oxystachya | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Abil_vaginata | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Abil_schoenoides | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Abil_pachptera | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Abil_ovata | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Bulb_barbata | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Bulb_densa | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Bulb_striatella | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Bulb_sp_nov_1 | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_littoralis | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACT | TGG |
| Cross_setifolia_NT_2 | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Cross_setifolia_NT3 | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Cross_setifolia_NT1 | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_neilsonii | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_cephalophora | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_cinnamometorum_NSW | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_arnhemensis | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_compacta | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_bisumbellata | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_cinnamometorum_WA | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_densa_WA | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_dichotoma | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_rara | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_pterygosperma_WA1 | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_lanceolata | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_microcarya_WA1 | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_nutans | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_pterygosperma_NT | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_macrocarpa_WA2 | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_laxiglumis | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_polytrichoides | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_velata | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_sieberiana | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_sericea | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_ferruginea | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_tristachya | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_tetragona_WA | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_densa_NT | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_schultzei | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_tetragona_Old | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_cymosa | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_acuminata | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_pauciflora | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Fimb_polytrichoides_2 | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Cross_setifolia_WA1 | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Cross_setifolia_WA2 | ATC | TCG | GCT | CTC | GCA | TCG | ATG | AAG | AAC | GTA | GCG | AAA | TGC | GAT | ACG | TGG |
| Eleocharis_cylindrostachys | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Schoenoplectus_littoralis | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Bolboschoenus_caldwellii | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Arthrostylis_a_WA | TGT | GAA | TTG | CAA | AAT | CCC | GCG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Arthrostylis_aphylla_NT | TGT | GAA | TTG | CAA | AAT | CCC | GCG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Actinoschoenus_NT1 | TGT | GAA | TTG | CAA | AAT | CCC | GCG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Actinoschoenus_WA | TGT | GAA | TTG | CAA | AAT | CCC | GCG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Abil_oxystachya | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Abil_vaginata | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Abil_schoenoides | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Abil_pachptera | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Abil_ovata | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Bulb_barbata | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Bulb_densa | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Bulb_striatella | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Bulb_sp_nov_1 | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Fimb_littoralis | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Cross_setifolia_NT_2 | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Cross_setifolia_NT3 | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Cross_setifolia_NT1 | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Fimb_neilsonii | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Fimb_cephalophora | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Fimb_cinnamometorum_NSW | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Fimb_arnhemensis | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |
| Fimb_compacta | TGT | GAA | TTG | CAA | AAT | CCC | GTG | AAC | CAT | CGA | GTC | TTT | GAA | CGC | AAG | TTG |

| | |
|----------------------------|--|
| Fimb_bisumbellata | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_cinnamometorum_WA | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_densa_WA | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_dichotoma | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_rara | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_pterygosperma_WA1 | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_lanceolata | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_microcarya_WA1 | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_nutans | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_pterygosperma_NT | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_microcarya_WA2 | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_laxiglumis | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_polytrichoides | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_velata | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_sieberiana | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_cericea | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_ferruginea | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_tristachya | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_tetragona_WA | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_densa_NT | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_schultzii | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_tetragona_Qld | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_cymosa | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_acuminata | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_pauciflora | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Fimb_polytrichoides_2 | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Cross_setifolia_WA1 | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Cross_setifolia_WA2 | TGT GAA TTG CAG AAT CCC GTG AAC CAT CGA GTC TTT GAA CGC AAG TTG |
| Eleocharis_cylindrostachys | CGC CCG AGG GAT :CCA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AGA |
| Schoenoplectus_littoralis | CGC CCG AGG GAT :CCC TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AGA |
| Bolboschoenus_caldwellii | CGC CCG AGG GAT :CCA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AGA |
| Arthrostylis_a_WA | CGC CCG AGG GAT :CCA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AGA |
| Arthrostylis_aphylla_NT | CGC CCG AGG GAT :CCA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AGA |
| Actinocchoenus_NT1 | CGC CCG AGG GAT :CCA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AGA |
| Actinocchoenus_WA | CGC CCG AGG GAT :CCA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AGA |
| Abil_oxystachya | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Abil_vaginata | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Abil_schoenoides | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Abil_pachyptera | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Abil_ovata | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Bulb_barbata | CGC CCG AGG GAT :CCA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Bulb_densa | CGC CCG AGG GAT :CCA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Bulb_sriatella | CGC CCG AGG GAT :CCA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Bulb_sp_nov_1 | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_littoralis | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Cross_setifolia_NT_2 | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Cross_setifolia_NT3 | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Cross_setifolia_NT1 | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_neilsonii | CGC CCG AGG GAT :CA TCC CAA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_cephalophora | CGC CCG AGG GAT :CA TCC TGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_cinnamometorum_NSW | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_arnhemensis | CGC CCG AGG GAT :CT TTC TGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_compacta | CGC CCG AGG GAT :CA TCC TGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_bisumbellata | CGC CCG AGG GAT :CA TCC TGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_cinnamometorum_WA | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_densa_WA | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_dichotoma | CGC CCG AGG GAT :CA TCC TGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_rara | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_pterygosperma_WA1 | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_lanceolata | CGC CCG AGG GAT :CA TCC TGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_microcarya_WA1 | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_nutans | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_pterygosperma_NT | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_microcarya_WA2 | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_laxiglumis | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_polytrichoides | CGC CCG AGG GAT :CA TCC TGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_velata | CGC CCG AGG GAT :CA TCC TGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_sieberiana | CGC CCG AGG GAT :CA TCC TGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_cericea | CGC CCG AGG GAT :CA TCC CAA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_ferruginea | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_tristachya | CGC CCG AGG GAT :CA TCC TGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_tetragona_WA | CGC CCA AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_densa_NT | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_schultzii | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_tetragona_Qld | CGC CCA AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |
| Fimb_cymosa | CGC CCG AGG GAT :CA TCC CGA GGG CAC GCC TGC CTC ATG GGC GTT AAA |

| | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| Fimb_acuminata | CGC | CCG | AGG | GAT | :CA | TCC | CAA | GGG | CAC | GCC | TGC | CTC | ATG | GGC | GTA | AGA |
| Fimb_pauciflora | CGC | CCG | AGG | GAT | TCA | TCC | CAA | GGG | CAC | GCC | TGC | CTC | ATG | GGC | GTA | AGA |
| Fimb_polytrichoides_2 | CGC | CCG | AGG | GAT | TCA | TCC | TGA | GGG | CAC | GCC | TGC | CTC | ATG | GGC | GTA | AGA |
| Cross_setifolia_WA1 | CGC | CCG | AGG | GAT | :CA | TCC | CGA | GGG | CAC | GCC | TGC | CTC | ATG | GCC | GTA | AAA |
| Cross_setifolia_WA2 | CGC | CCG | AGG | GAT | :CA | TCC | CGA | GGG | CAC | GCC | TGC | CTC | ATG | GCC | GTA | AAA |
| Eleocharis_cylindrostachys | AGC | CCA | TCC | ACG | CTC | GGT | GCA | CGT | GCC | TCG | ::: | TAG | GCC | :TG | CCC | GAT |
| Schoenoplectus_littoralis | AGC | CCA | TCC | ACG | CTC | GG: | ::: | :AT | GCC | TTG | OCT | CGT | GCA | TTG | CT: | GAT |
| Bolboschoenus_caldwellii | AGC | CCA | TCC | ACG | CTC | GG: | ::: | :AT | GCC | TTG | OCT | CGT | GCA | TTG | CTT | GAT |
| Arthrostylis_a_WA | AGC | CCA | TGC | ACG | CTC | GG: | ::: | :GT | GCC | TCA | ::: | AAG | GCT | TT: | CCC | GAC |
| Arthrostylis_aphylla_NT | AGC | CCA | CGC | ACG | CTC | GG: | ::: | :GA | GCC | TCA | ::: | AAG | GCT | TT: | CCC | GAC |
| Actinoschoenus_NT1 | AGC | CCA | TGC | ACG | CTC | GG: | ::: | :GT | GCC | TCA | ::: | AAG | GCT | TT: | CTC | GAT |
| Actinoschoenus_WA | AGC | CCA | TGC | ACG | CTC | GG: | ::: | :GT | GCC | TCA | ::: | AAG | GCT | TT: | CTC | GAT |
| Abil_oxystachya | AGC | CCA | TCC | ACG | CTC | AG: | ::: | :GC | GCT | TTA | ::: | CGA | GCG | TT: | CTT | GAT |
| Abil_vaginata | AGC | CCA | TCC | ACG | CTC | AG: | ::: | :GC | GCC | TTA | ::: | CAG | GTG | TT: | CCT | GAC |
| Abil_schoenoides | AGC | CCA | TCC | ACG | CTC | AG: | ::: | :GC | GCC | TTA | ::: | CAA | GCG | TT: | CTT | GAT |
| Abil_pachptera | AGC | CCA | TCC | ACG | CTC | AG: | ::: | :GC | GCC | TTA | ::: | CGA | GCG | TT: | CTT | GAT |
| Abil_ovata | AGC | CCA | TCC | ACG | CTC | AG: | ::: | :GC | GCC | ATA | ::: | CAG | GCG | TT: | ACT | GAT |
| Bulb_barbata | AGC | CCA | TCC | ACG | CTC | GG: | ::: | :GT | GCT | GTG | ::: | CGG | GCA | AT: | CCT | GAT |
| Bulb_densa | AGC | CCA | TCC | ACG | CTC | GG: | ::: | :GT | GCC | CCG | G::: | TGG | GCA | CT: | TCC | GAT |
| Bulb_striatella | AGC | CCA | TCC | ACG | CTC | GG: | ::: | :GT | GCC | ATG | ::: | TGG | GCA | CT: | ATT | GAT |
| Bulb_sp_nov_1 | AGC | CCA | TCC | ACG | CTC | GG: | ::: | :GT | GCC | CCA | ::: | AGG | GCA | CT: | WCC | GAT |
| Fimb_littoralis | AGC | CCA | TCC | ACG | CTC | AG: | ::: | :GC | GCC | TTT | ::: | CCG | GTG | TT: | CCT | GAT |
| Cross_setifolia_NT_2 | AGC | CCA | TCC | ACG | CTC | TG: | ::: | :GC | GCC | TTA | ::: | CAG | GTG | TT: | CCT | GAC |
| Cross_setifolia_NT3 | AGC | CCA | TCC | ACG | CTC | TG: | ::: | :GC | GCC | TTA | ::: | CAG | GTG | TT: | CCT | GAC |
| Cross_setifolia_NT1 | AGC | CCA | TCC | ACG | CTC | TG: | ::: | :GC | GCC | TTA | ::: | CAG | GTG | TT: | CCT | GAC |
| Fimb_neilsonii | AGC | CCA | TCC | ACG | CTT | AG: | ::: | :GC | GCC | TTT | ::: | TAG | GTG | TT: | CCT | GAT |
| Fimb_cephalophora | AGC | CCA | TCC | ATC | CTC | AG: | ::: | :GC | GCC | TTG | ::: | TAG | GTG | TT: | ATT | GAT |
| Fimb_cinnamometorum_NSW | AGC | CCA | TCC | ACG | CTC | AG: | ::: | :GT | GCA | TTC | ::: | TAG | GTG | TT: | TCT | GAT |
| Fimb_anhemensis | AGC | CCA | TTC | ACC | CTA | AG: | ::: | :GT | GCC | TTA | ::: | TAG | GTG | TT: | CCT | CAT |
| Fimb_compacta | AGC | CCA | TCC | ATC | CTC | AG: | ::: | :GC | GCC | TTG | ::: | TAG | GTG | TT: | ATT | GAT |
| Fimb_bisumbellata | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GT | GCA | TTC | ::: | TAG | GTG | TT: | CCT | GAT |
| Fimb_cinnamometorum_WA | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GT | GCA | TTC | ::: | TAG | GTG | TT: | TCT | GAT |
| Fimb_densa_WA | AGC | CCA | ACC | AAC | CTC | GG: | ::: | :GC | GCC | TTG | ::: | CAG | GTG | TT: | CCT | GAT |
| Fimb_dichotoma | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GT | GCA | TTA | ::: | TAG | GTG | TT: | CCT | GAT |
| Fimb_rara | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GC | GCC | TTA | ::: | CAG | GTG | TT: | TCT | GAT |
| Fimb_pterygosperma_WA1 | AGC | CCA | TTC | ACC | CTC | AG: | ::: | :GC | GCC | TTA | ::: | CGT | GCG | TT: | TCT | GAT |
| Fimb_lanceolata | AGC | CCA | TCC | ATC | CTC | AG: | ::: | :GC | GCC | TTG | ::: | TAG | GTG | TT: | ATT | GAT |
| Fimb_microcarya_WA1 | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GC | GCC | TTT | ::: | TAG | GTG | TT: | CCT | GAT |
| Fimb_rutans | AGC | CCA | TTC | ACC | CTC | GG: | ::: | :GC | GCC | TTA | ::: | CAG | GTG | TT: | CCT | GAT |
| Fimb_pterygosperma_NT | AGC | CCA | TTC | ACC | CTC | AG: | ::: | :GC | GCC | TTA | ::: | CGT | GCG | TT: | TCT | GRT |
| Fimb_microcarya_WA2 | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GC | GCC | TTT | ::: | TAG | GTG | TT: | CCT | GAT |
| Fimb_laziglumis | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GT | GCC | TTT | ::: | TAG | GTG | TT: | CCT | GAT |
| Fimb_polytrichoides | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GT | ACA | TTC | ::: | TAC | GTG | TT: | CCT | GAT |
| Fimb_velata | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GT | GCA | TTA | ::: | TAG | GTG | TT: | CCT | GAT |
| Fimb_sieberiana | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GC | GCA | TTC | ::: | TAG | GTG | TT: | CCT | GAT |
| Fimb_cericea | AGC | CCA | TCC | ACC | CTT | AG: | ::: | :GC | GCC | TTT | ::: | CAG | GTG | TT: | CCT | GAT |
| Fimb_ferruginea | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GC | GCC | TTA | ::: | CAG | GTG | TT: | TCT | GAT |
| Fimb_tristachya | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GA | GCA | TTC | ::: | TAC | GTG | TT: | CCT | GAT |
| Fimb_tetraçona_WA | AGC | CCA | TTC | ACC | CTC | AG: | ::: | :GC | GCC | TTG | ::: | TAG | GTG | TT: | CCT | GAT |
| Fimb_densa_NT | AGC | CCA | ACC | AAC | CTC | GG: | ::: | :GC | GCC | TTG | ::: | CAG | GTG | TT: | CCT | GAT |
| Fimb_schultzei | AGC | CCA | TCA | ACC | CTC | AG: | ::: | :GA | ACC | TTA | ::: | CAG | GTG | TT: | CCT | GAT |
| Fimb_tetraçona_Qld | AGC | CCA | TTC | ACC | CTC | AG: | ::: | :GC | GCC | TTG | ::: | TAG | GTG | TT: | CCT | GAT |
| Fimb_cymosa | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GC | ACC | TTC | ::: | CGG | GTG | TT: | CCC | GAT |
| Fimb_acumirata | AGC | CCA | TTC | ACC | CTC | AG: | ::: | :GC | GCC | TTA | ::: | CAG | GTG | TT: | TCT | GAT |
| Fimb_pauciflora | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GC | GCC | TTG | ::: | TAG | GTG | TT: | CCT | GAT |
| Fimb_polytrichoides_2 | AGC | CCA | TCC | ACC | CTC | AG: | ::: | :GT | GCA | TTC | ::: | TAC | GTG | TT: | CCT | GAT |
| Cross_setifolia_WA1 | AGC | CCA | TCC | ATC | CTC | TG: | ::: | :GC | GCC | TTA | ::: | TAG | GTG | TT: | CCA | GAC |
| Cross_setifolia_WA2 | AGC | CCA | TCC | ATC | CTC | TG: | ::: | :GC | GCC | TTA | ::: | TAG | GTG | TT: | CCA | GAC |
| Eleocharis_cylindrostachys | GCG | GAC | AAT | GGC | CC: | TCC | GAG | CCG | CGA | GGC | ::: | GCG | ACG | GGC | A:C | AAG |
| Schoenoplectus_littoralis | GCG | GAC | GC | GGC | CC: | TCC | GAG | TCG | CGA | GGA | T::: | GCG | GTG | GGC | T:G | AAG |
| Bolboschoenus_caldwellii | GCG | GAC | GC | GGC | CC: | TCC | GAG | TCG | CGA | GAT | ::: | GCG | GTG | GGC | T:G | AAG |
| Arthrostylis_a_WA | GCG | GAC | AT | GGC | CCT | TC: | GAG | CCG | CGA | GGC | ::: | GCG | ACG | GGC | T:C | AAG |
| Arthrostylis_aphylla_NT | GCG | GAC | AT | GGC | CCT | TC: | GAG | CCG | CGA | GGC | ::: | GCG | ACG | GGC | T:C | AAG |
| Actinoschoenus_NT1 | GCG | GAC | AT | GGC | CCT | TC: | GAG | CCG | CGA | GGC | ::: | GCG | ACG | GGC | T:C | AAG |
| Actinoschoenus_WA | GCG | GAC | AT | GGC | CCT | TC: | GAG | CCG | CGA | GGC | ::: | GCG | ACG | GGC | T:C | AAG |
| Abil_oxystachya | GCG | GAC | AT | GGC | CCT | TC: | GAG | CTG | GAA | GGT | T::: | GCG | AAG | GGC | T:C | AAG |
| Abil_vaginata | GCG | GAC | AT | GGC | CC: | TCC | GAG | CCG | AAA | GGT | T::: | GCG | ACG | GGC | C:C | AAG |
| Abil_schoenoides | GCG | GAC | AT | GGC | CCT | TC: | GAG | CCG | CAA | GGT | T::: | GCG | AAG | GGC | T:C | AAG |
| Abil_pachptera | GCG | GAC | AT | GGC | CCT | TC: | GAG | CCG | CAA | GGT | T::: | GCG | AAG | GGC | T:C | AAG |
| Abil_ovata | GCG | GAC | AT | GGC | CCT | TC: | GAG | CCG | CAA | GGC | T::: | GCG | AAG | GGC | T:C | AAG |
| Bulb_barbata | GCG | GAA | AT | GGC | CC: | TCC | GAG | CTG | CGA | GGC | ::: | GCG | AAG | GGC | T:T | AAG |
| Bulb_densa | GCG | GAC | AT | GGC | CCT | TC: | GAG | CCG | GGA | GGC | T::: | GCG | ATG | GGC | T:T | AAG |
| Bulb_striatella | GCG | GAC | AT | GGC | CCT | TC: | GAG | CCG | GGA | GGC | ::: | GCG | ATG | GGC | T:T | AAG |
| Bulb_sp_nov_1 | GCG | GAC | AT | GGC | CCT | TC: | GAG | CCG | CGA | GGC | ::: | GCG | ACG | GGC | T:T | AAG |
| Fimb_littoralis | GCG | GAC | AAT | GGC | CC: | TCC | GAG | CCG | CAA | GGC | T::: | GCG | ACG | GGC | T:C | AAG |

| | |
|----------------------------|---|
| Cross_setifolia_NT_2 | GCG GAT ATT GGC CC: TCC GAG CCG AAA GGT T:: GCG ACG GGC C:C AAG |
| Cross_setifolia_NT3 | GCG GAT ATT GGC CC: TCC GAG CCG AAA GGT T:: GCG ACG GGC C:C AAG |
| Cross_setifolia_NT1 | GCG GAT ATT GGC CC: TCC GAG CCG AAA GGT T:: GCG ACG GGC C:C AAG |
| Fimb_neilsonii | GCG GAC ATT GGC CCT TC: GAG CCG CAA GGT T:: GCG ATG GGC T:C AAG |
| Fimb_cephalophora | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: ACG AAG GGC T:T AAG |
| Fimb_cinnamometorum_NSW | GCG GAC ATT GGC CCT TC: GAG CTG CAA GGT T:: CCG ATG GGC T:C AAG |
| Fimb_arnhemensis | GCG GAA ATT GGC CCT TC: GAG CCG TAA GGT T:: ACG ATG GGC T:C AAG |
| Fimb_compacta | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: ACG ACG GGC T:T AAG |
| Fimb_bisumbellata | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_cinnamometorum_WA | GCG GAC ATT GGC CCT TC: GAG CTG CAA GGT T:: CCG ATG GGC T:C AAG |
| Fimb_densa_WA | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_dichotoma | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_rara | GCG GA: ATT GGC CC: TCC GAG CCG TAA GGT T:: GCG ACG GGC C:G AAG |
| Fimb_pterygosperma_WA1 | GCG GAC ATT GGC CCT TC: GAG CCG CAA GGT T:: GTG ACG GGC T:C AAG |
| Fimb_lanceolata | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC T:T AAG |
| Fimb_microcarya_WA1 | GCG GAG ATT GGC CCT TC: GAG CTG CAA GGT T:: GCG ATG GGC C:C AAG |
| Fimb_nutans | GCG GAC CTT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_pterygosperma_NT | GCG GAC ATT GGC CCT TC: GAG CCG CAA GGT T:: GTG ACG GGC T:C AAG |
| Fimb_microcarya_WA2 | GCG GAG ATT GGC CCT TC: GAG CTG CAA GGT T:: GCG ATG GGC C:C AAG |
| Fimb_laxiglamis | GCG GAC ATT GGC CCT TC: GAG CCG TAA GGT T:: GCG ACG GGC T:G AAG |
| Fimb_polytrichoides: | GCG GAC ATT GGC CCT TC: GAG CCA CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_velata | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_sieberiana | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_cericea | GCG GAC ATT GGC CCT TCC GAG CCG CAA GGT ATA GCG ATG GGC TGC AAG |
| Fimb_ferruginea | GCG GA: ATT GGC CC: TCC GAG CCG TAA GGT T:: GCG ACG GGC C:G AAG |
| Fimb_tristachya | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_tetragona_WA | GCT GAA ATT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC C:C AAG |
| Fimb_densa_NT | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_schultzii | GCG GAC ATT GGC CCT TC: GAG CCG CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_tetragona_Qld | GCT GAA ATT GGC CC: TCC GAG CCG CAA GGT T:: CCG ACG GGC C:C AAG |
| Fimb_cymosa | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: CCG ACG GGC T:C AAG |
| Fimb_acuminata | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_pauciflora | GCG GAC ATT GGC CC: TCC GAG CCG CAA GGT T:: GCG ACG GGC T:C AAG |
| Fimb_polytrichoides_2 | GCG GAC ATT GGC CC: TCC GAG CCA CAA GGT T:: GCG ACG GGC T:C AAG |
| Cross_setifolia_WA1 | GCG GAT ATT GGC CC: TCC GAG CCG AAA GGT T:: GCG ACG GGC C:C AAG |
| Cross_setifolia_WA2 | GCG GAT ATT GGC CC: TCC GAG CCG AAA GGT T:: GCG ACG GGC C:C AAG |
| Eleocharis_cylindrostachys | TGC :AT GG: :TC GTC GGT T:G AGG CCG G:G AGC GGC GAG TGG TGG GCT |
| Schoenoplectus_littoralis | TGT :AC GG: :CC GTC GGA T:G GGG CTG G:G AGC GGC GAG TGG TGG GCT |
| Bolboschoenus_caldwellii | TGT :AC GG: :CC GTC GGA T:G GGG CTG G:G AGC GGC GAG TGG TGG GCT |
| Arthrostylis_a_WA | CGG AAC GG: :TC GTC GGC T:G AGG CCG G:G AAC AAC GAG TGG TGG GCC |
| Arthrostylis_aphylla_NT | CGG AAC GG: :CC GTC GGC T:G AGG CCG G:G AGC GAC GAG TGG TGG GCC |
| Actinoschoenus_NT1 | CGG AAC GG: :TC GTC GGT T:G AGG CCG G:G AGC GAC GAG TGG TGG GCC |
| Actinoschoenus_WA | CGG AAC GG: :TC GTC GGT T:G AGG CCG G:G AGC GAC GAG TGG TGG GCC |
| Abil_oxystachya | TAA AAT AG: :CA ATP GGC T:G AGG TCA G:G AGC GAC GAG TGG TGG GCT |
| Abil_vaginata | TAC AAT GG: :CT ACT GGA T:G AGT TCA G:G AGC GAC GAG TGG TGA GCT |
| Abil_schoenoides | TAA AAT GG: :CA ATP GGC T:G AGG TCA G:G AGC GAC GAG TGG TGG GCT |
| Abil_pachyptera | TAA AAT GG: :CA ATP GGC T:G AGG TCG G:G AGC GAC GAG TGG TGG GCT |
| Abil_ovata | TAA AAT GG: :CT ATP GGC T:G AGG TCG G:G AGC GAT GAG TGG TGG GCT |
| Bulb_barbata | TGT AAC GG: :TC GTT GGC T:A AGG CCG G:G AGC GAC GAG TGG TGG GCT |
| Bulb_densa | TGT AAC GG: :TC GTT GGC T:G AGG CCG G:G AGC GAC GAG TGG TGG GCT |
| Bulb_striatella | TGT AAC GG: :TC GTT GGC T:G AGG CCG G:G AGC GAC GAG TGG TGG GCT |
| Bulb_sp_nov_1 | TGC AAT GG: :TC GTC GGT T:G AGG CCG G:G AGC GAC GAG TGG TGG GCT |
| Fimb_littoralis | TAT AAC GG: :CT GTC GGA T:G AGG TCT G:G AGC GAC GAG TGG TGG GCT |
| Cross_setifolia_NT_2 | TAC AAT GG: :CT ACT GGA T:G AGT TCA G:G AGC GAC GAG TGG TGA GCT |
| Cross_setifolia_NT3 | TAC AAT GG: :CT ACT GGA T:G AGT TCA G:G AGC GAC GAG TGG TGA GCT |
| Cross_setifolia_NT1 | TAC AAT GG: :CT ACT GGA T:G AGT TCA G:G AGC GAC GAG TGG TGA GCT |
| Fimb_neilsonii | TAT AAC GG: :CT ATC GGC T:G AGG TCG G:G AGC GGC GAG TGG TGG GCT |
| Fimb_cephalophora | TAT AAT GG: :CT ATT GAC T:A AGG TCG G:G AGC GAC GAG TGG TGA GCT |
| Fimb_cinnamometorum_NSW | TAC AAT GG: :CT GTT GGC T:G AGG TCG G:G AGC GAT GAG TGG TGG GCT |
| Fimb_arnhemensis | TAT AGT GC: :CT ATC GGC T:G AGG TCG G:G AGC AAT GAG TGG TGG GCT |
| Fimb_compacta | TAT AAT GC: :CT ATT GAC T:A AGG TCG G:G AGC GAC GAG TGG TGA GCT |
| Fimb_bisumbellata | TAT AAT GC: :CT ATC GGC T:G AGG TCG G:G AGC GAT GAG TGG TGG GCT |
| Fimb_cinnamometorum_WA | TAC AAT GG: :CT GTT GGC T:G AGG TCG G:G AGC GAT GAG TGG TGG GCT |
| Fimb_densa_WA | TAT AAT GG: :CT AAT GGT T:G AGG TCG G:G AGC GAT GAG TGG TGG GCT |
| Fimb_dichotoma | TAC AAT GG: :CT ATC GGC T:G AGG TCG G:G AGC GAC GAG TGG TGG GCT |
| Fimb_rara | TAC AAT GG: :CT GTC GAC T:G AGG TCG G:G GGC GGC GAG TGG TGG GCT |
| Fimb_pterygosperma_WA1 | TGC AGT GG: :CT ATP GGC T:T AGG TCA TAG AGC GGC GAG TGG TGG GCT |
| Fimb_lanceolata | TAT AAT GG: :CT ATP GAC T:A AGG TCG G:G AGC GAC GAG TGG TGA GCT |
| Fimb_microcarya_WA1 | TAC AAT GG: :CT ATC GGC T:G AGG TCG G:G AGC GAC GAG TGG TGG GCT |
| Fimb_nutans | TAT AAG GG: :CA ACT GGC T:G AGG TCA G:G AGC GAC GAG TGG TGG GCT |
| Fimb_pterygosperma_NT | TGC AGT GG: :CT ATP GGC T:T AGG TCA TAG AGC GGC GAG TGG TGG GCT |
| Fimb_microcarya_WA2 | TAC AAT GG: :CT ATP GGC T:G AGG TCG G:G AGC GAC GAG TGG TGG GCT |
| Fimb_laxiglamis | TAC AAC GG: :CT ATP GAC T:G AGG TCG G:G AGC AAC GAG TGG TGG GCT |
| Fimb_polytrichoides | TAC AAT GG: :CT ATP GGC T:G AGG TCG G:G AGC GAC GAG TGG TGG GCT |
| Fimb_velata | TAC AAT GG: :CT ATP GGC T:G AGG TCG G:G AGC GAC GAG TGG TGG GCT |
| Fimb_sieberiana | TAC AAT GG: :CT ATP GGC T:G AGG TCG G:G AGC GAC GAG TGG TGG GCT |

| | |
|----------------------------|--|
| Fimb_cericea | TAT AAC GG: :CT ATC GGC T:G AGG TCG G:G ACG GAC GAG TGG TGG GCT |
| Fimb_ferruginea | TAC AAT GG: :CT CTC GAC T:G AGG TCG G:G GGC GGC GAG TGG TGG GCT |
| Fimb_tristachya | TAC AAT GG: :CT CTC GGC T:G AGG TCG G:G AGC GAC GAG TCG TGG GCT |
| Fimb_tetragona_WA | TAT AAT GG: :CT ATC GAC TAG AGG TCG G:G AGC GAC GAG TCG TGG GCT |
| Fimb_densa_NT | TAT AAT GG: :CT AAT CGT T:G AGG TCG G:G AGC GAT GAG TCG TGG GCT |
| Fimb_schultzii | TAT AAC GG: :CT ATC GAT T:G AGG TCG G:G AGC GAC GAG TGG TGG GTT |
| Fimb_tetragona_Old | TAT AAT GG: :CT ATC GAC TAG AGG TCG G:G AGC GAC GAG TCG TGG GCT |
| Fimb_cymosa | TAT AAC GG: :CT ATC GAC T:G AGG TCG G:G AGC GGC GAG TGG TGG GCT |
| Fimb_acuminata | TAT AAT GG: :CT ACT GGC T:G AGG TCA G:G AGC GAC GAG TGG TGG GCT |
| Fimb_pauciflora | TAT TAT GG: :CT ATC GGC T:G AGG TCG G:G AGC GAC GAG TGG TGG GCT |
| Fimb_polytrichoides_2 | TAC AAT GG: :CT ATC GGC T:G AGG TCG G:G AGC GAC GAG TGG TGG GCT |
| Cross_setifolia_WA1 | TAC AAT GGC GCT ACT GGA T:G AGT TCA G:G AGC GAC GAG TGG TGA GCT |
| Cross_setifolia_WA2 | TAC AAT GGC GCT ACT GGA T:G AGT TCA G:G AGC GAC GAG TGG TGA GCT |
| | |
| Eleocharis_cylindrostachys | ::: :AA CT: GCG CAC G:: ::: :CT GCC TCC GAA :C CTC ATT TCG ACA |
| Schoenoplectus_littoralis | ::: :G CT: GCG CAC G:: ::: :TC GCC CCC GAC :C CCC ATG TCG GCG |
| Bolboschoenus_caldwellii | ::: :G CT: GCG CAC G:: ::: :TC GCC CCC GAC :C CCC ATG TCG GCG |
| Arthrostylis_aphylla_NT | ::: :A CTA GCG CGC G:: ::: :TT GCC CCG GAA :C TCT GTG CCG GCG |
| Arthrostylis_a_WA | ::: :A CTG GCG CGC G:: ::: :TT GTC CCG GAA :C TCT GTG CCG GCG |
| Actinoschoenus_NT1 | ::: :A CTA GCG CGC G:: ::: :TT GCC TCG GAA :C TTT GTG CCG GCG |
| Actinoschoenus_WA | ::: :A CTA GCG CGC G:: ::: :TT GCC TCG GAA :C TTT GTG CCG GCG |
| Abil_oxystachya | ::: :A CGA GCT AGC G:: :TTT GTC GCC TCT GTG :C CTC ACG TTG ATG |
| Abil_vaginata | ::: :A CAA GCT AGC G:: :TTC GTT GCC CTT GAA :C CTC ACG ATG ACG |
| Abil_schoenoides | ::: :A CGA GCT AGC G:: :TTC GTC GCC CCT GCG :C CTC ACG TTG ATG |
| Abil_pachyptera | ::: :A CGA GCT AGC G:: :TTC GTC GCC CTC GTG :C CTC ACG TTG ATT |
| Abil_ovata | ::: :A CGA GCT AGC G:: :TTC GTC GCT CCT GTA C:C CTC ACG TTG ATG |
| Bulb_barbata | ::: :A CTA CCC CGA G:: :TC AT: :CC CT: GAT :T CTT ATG CCG TAA |
| Bulb_densa | :TT ANN CTA GCC CGA G:: :TC GT: :CC CC: GAG :T CTC ACG TCG ACG |
| Bulb_striatella | ::: :A CTA GCC CGA G:: :TC GT: :CC CC: GAG :C CTC ATG TTG ACG |
| Bulb_sp_nov_1 | ::: AT: CTA GCC CGA G:: :TC GTT :CC CC: GAG :C :C :C :C :C |
| Fimb_littoralis | ::: :A CAA GCT AGC G:: :TCC GTC GCT CCT GAA :C CTC ACA ATG ATT |
| Cross_setifolia_NT_2 | ::: :A CAA GCT AGC G:: :TTC GTT GCC CTT GAA :C CTC ACG ATG ACG |
| Cross_setifolia_NT3 | ::: :A CAA GCT AGC G:: :TTC GTT GCC CTT GAA :C CTC ACG ATG ACG |
| Cross_setifolia_NT1 | ::: :A CAA GCT AGC G:: :TTC GTT GCC CTT GAA :C CTC ACG ATG ACG |
| Fimb_neilsonii | ::: :A CAA GCT AGC G:: :TTC GTC GCC CCT AAA :C CTC ACA ATG ATG |
| Fimb_cephalophora | ::: ATG AAA GCT AGC G:: :TTC GTT GCT CCT AAA :C CTT ATG ATA ATG |
| Fimb_cinnamometorum_NSW | ::: :A CAA GCT AGC G:: :TTT GTC GCT CTT GAA :C CTC ACG :TG ACG |
| Fimb_arnhemensis | ::: ATA TAA GCT AGT A: :TTC ATT GCC CCT GTA :C CTC ACG ATG ATG |
| Fimb_compacta | ::: ATG AAA GCT AGC G:: :TTC GTT GCT CCT AAA :C CTT ATG ATA ATG |
| Fimb_bisumbellata | ::: :A CAA GCT AGC G:: :TTC GTC ACC CCC GAA :C CTC ACC :TG ATG |
| Fimb_cinnamometorum_WA | ::: :A CAA GCT AGC G:: :TTT GTC GCT CTT GAA :C CTC ACG :TG ACG |
| Fimb_densa_WA | ::: :A AAA GCT AGT G:: :TTC GTT GCC CCT AGA :C CTC ACG ATG ATG |
| Fimb_dichotoma | ::: :A CAA GCT AGC G:: :TTC GTC GCC CCT CAA :C CTC ACG :TG ATG |
| Fimb_rara | ::: :A AAA TCT AGC G:: :TTC ATC GCC CCT GAA T:C CTT ACG ACG ACG |
| Fimb_pterygosperma_WA1 | ::: :G CAA GCT AGC G:: :TTC GTC GCT CCT GAA :C CTT ATG ACG ATG |
| Fimb_lanceolata | ::: ATG AAA GCT AGC G:: :TTC GTT GCT CCT AAA :C CTT ATG ATA ATG |
| Fimb_microcarya_WA1 | ::: :A CAA GCT AGC G:: :TTC GTC GCC CCT GAA :C CTC ACG :TG ATG |
| Fimb_nutans | ::: :A CAG GCT AG: :G TTC GTC GCC CTT GAT :A CTT ACG ATG ATG |
| Fimb_pterygosperma_NT | ::: :G CAA GCT AGC G:: :TTC GTC GCT CCT GAA :C CTT ATG ACG ATG |
| Fimb_microcarya_WA2 | ::: :A CAA GCT AGC G:: :TTC GTC GCC CCT GAA :C CTC ACG :TG ATG |
| Fimb_laxiglumis | ::: :A CAA GCT AGC G:: :TTC GTT GCT CTT GAA :C CTC ACG ATG ATG |
| Fimb_polytrichoides | ::: :A CAA GCT AGC G:: :TTC GTC GCC TCT CAA :C CTC ACG :TG ATG |
| Fimb_velata | ::: :A CAA GCT AGC G:: :TTC GTC GCC CCT CAA :C CTC ACG :TG ATG |
| Fimb_sieberiana | ::: :A CAA GCT AGC G:: :TTC GTC GCC CCT GAA :C CTC ACG :TG ATG |
| Fimb_cericea | ::: :A CAA GCT AGC G:: :TTN GTC GCC CCT AA: :C CTC AT: :CA ATC |
| Fimb_ferruginea | ::: :A AAA TCT AGC G:: :TTC ATC GCC CCT GAA T:C CTT ACG ACC |
| Fimb_tristachya | ::: :A CAA GCT AGC G:: :TTC GTC GCC CCT GAA :C TTC ATG :TG ATG |
| Fimb_tetragona_WA | ::: ACA AAA GCT AGC G:: :TTC GTC GCT CGT GAA :C CTT ATG ATG ATG |
| Fimb_densa_NT | ::: :A AAA GCT AGT G:: :TTC GTT GCC CCT AGA :C CTC ATG ACG ATG |
| Fimb_schultzii | ::: :A CAA GCT AGC G:: :TTC GTC GCT CCC GAA :C :C :C :C :C |
| Fimb_tetragona_Old | ::: ACA AAA GCT AGC G:: :TTC GTC GCT CGT GAA :C CTT ATG ATC ATG |
| Fimb_cymosa | :TTT ACA CAA GCA AGC G:: :TTC GTC GCC CCC AA: :C CTC ACG ATT ATG |
| Fimb_acuminata | ::: :A CAA GCT AGC GCG TTC GTC GCC CTT GAA :C CTC ACG ATC ATG |
| Fimb_pauciflora | ::: :A CAA GCT AGC G:: :TTC GTC GTC CCT GAA :C CTT ACG ATG ATG |
| Fimb_polytrichoides_2 | ::: :A CAA GCT AGC G:: :TTC GTC GCC CCT CAA :C CTC ACG :TG ATG |
| Cross_setifolia_WA1 | ::: :A CAA GCT AGC G:: :TTC GTT GCC CTT GAA :C CTC AT: :CG ACG |
| Cross_setifolia_WA2 | ::: :A CAA GCT AGC G:: :TTC GTT GCC CTT GAA :C CTC AT: :CG ACG |
| | |
| Eleocharis_cylindrostachys | CAA GGC CT: ::: ::: :AG TTG ::: :GA ::: ::: :CC: :T CGA AAC GAG |
| Schoenoplectus_littoralis | TAT GGT T: ::: ::: :TG TTG GTT TGA :A C: :CC: :T AAC GAG GAG |
| Bolboschoenus_caldwellii | TAT GGT T: ::: ::: :TG TTG GTT TGA :A C: :CC: :T AAC GAG GAG |
| Arthrostylis_a_WA | GAG GGC TT: ::: ::: :GT TTG G: ::: :A C: :CC: :T GGA GAG GAC |
| Arthrostylis_aphylla_NT | GAG GGC CT: ::: ::: :CT TTG G: ::: :A C: :CC: :T AGA AAG GAC |
| Actinoschoenus_NT1 | GAG GGC CT: ::: ::: :AT TTG G: ::: :A C: :CC: :T AGA AAG GAC |
| Actinoschoenus_WA | GAG GGC CT: ::: ::: :AT TTG G: ::: :A C: :CC: :T AGA AAG GAC |
| Abil_oxystachya | GAT :GC TTT ::: ::: :TG TTG ::: :A C: :CC: :T AAC GAG GAT |
| Abil_vaginata | GAT :GC CTT ::: ::: :TA ::: :A CGA ::: :C: :CC: :T AAC GAG CAT |

| | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Abil_schoenoides | GAT | :GC | CTT | ::: | ::: | :TG | TTG | ::: | ::: | :A | C:: | CCC | ::G | AAC | GAG | GAT |
| Abil_pachptera | GAT | :GC | CTT | ::: | ::: | :TG | TTG | ::: | ::: | :A | C:: | CCC | ::G | AAC | GAG | GAT |
| Abil_ovata | GAT | :GC | TTT | ::: | ::: | :TG | TTG | ::: | ::: | :A | C:: | CCT | ::G | AAC | GAG | GAT |
| Bulb_barbata | GAA | GGC | C:: | ::: | ::: | :TG | ::: | :TT | CGA | :A | ::: | CCC | ::T | AAT | TGA | GTT |
| Bulb_densa | GAT | GGC | C:: | ::: | ::: | :TG | ::: | :CA | CGG | :A | ::: | CCC | ::C | AAA | TGA | GAT |
| Bulb_striatella | GAT | GGC | C:: | ::: | ::: | :TG | ::: | :CA | CGG | :A | ::: | CCC | ::C | AAA | TGA | GAT |
| Bulb_sp_nov_1 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_littoralis | GTG | :CC | TTT | ::: | ::: | :AT | ::: | :TG | CGA | ::: | C:: | CCC | ::G | AAT | GAG | GAT |
| Cross_setifolia_NT_2 | GAT | :GC | CT: | ::: | ::: | :TT | ::: | :AA | CGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Cross_setifolia_NT3 | GAT | :GC | CT: | ::: | ::: | :TT | ::: | :AA | CGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Cross_setifolia_NT1 | GAT | :GC | CT: | ::: | ::: | :TT | ::: | :AA | CGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_neilsonii | GAT | :GC | CT: | ::: | ::: | :TT | ::: | :AT | TGA | ::: | C:: | CCC | TCC | AAC | GAG | GAT |
| Fimb_cephalophora | GTT | :GC | CT: | ::: | ::: | :TT | ::: | :AA | TGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_cinnamometorum_NSW | TAT | :GC | CT: | ::: | ::: | :AT | ::: | :AT | CGA | ::: | C:: | CCT | ::G | AAC | GAG | GAT |
| Fimb_arnhemensis | GAT | :GC | CT: | ::: | ::: | :CT | ::: | :AA | TGA | :T | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_compacta | GTT | :GC | CT: | ::: | ::: | :TT | ::: | :AA | TGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_bisumbellata | TAT | :GC | CT: | ::: | ::: | :AC | ::: | :AT | TGA | ::: | C:: | CCT | ::T | AAC | GAG | GAT |
| Fimb_cinnamometorum_WA | TAT | :GC | CT: | ::: | ::: | :AT | ::: | :AT | CGA | ::: | C:: | CCT | ::G | AAC | GAG | GAT |
| Fimb_densa_WA | GAT | :GC | CT: | ::: | ::: | :TC | ::: | :AA | TGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_dichotoma | TAT | :GC | CT: | ::: | ::: | :TT | ::: | :AT | TGA | ::: | C:: | CCT | ::T | AAC | GAG | GAT |
| Fimb_rara | GAT | :GC | CT: | ::: | ::: | :CT | ::: | :AA | TGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_pterygosperma_WA1 | CAT | :GC | TT: | ::: | ::: | :CC | ::: | :AA | TGA | ::: | C:: | TCC | :A | GAC | GAA | CAT |
| Fimb_lanceolata | GTT | :GC | CT: | ::: | ::: | :TT | ::: | :AA | TGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_microcarya_WA1 | TAT | :GC | CTT | ::: | ::: | :TT | ::: | :AT | TGA | ::: | C:: | CCT | ::G | AAC | GAG | GAT |
| Fimb_nutans | GAT | :GC | CT: | ::: | ::: | :CT | ::: | :AA | TGA | :A | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_pterygosperma_NT | CAT | :GC | TT: | ::: | ::: | :CC | ::: | :AA | TGA | ::: | C:: | TCC | :A | GAC | GAA | CAT |
| Fimb_microcarya_WA2 | TAT | :GC | CTT | ::: | ::: | :TT | ::: | :AT | TGA | ::: | C:: | CCT | ::G | AAC | GAG | GAT |
| Fimb_laxiglumis | TAT | :GC | CT: | ::: | ::: | :TT | ::: | :AT | TGA | ::: | C:: | CCT | ::T | AAC | GAG | GAT |
| Fimb_polytrichoides | TAT | :GC | CT: | ::: | ::: | :TT | ::: | :AT | TGA | ::: | C:: | CCT | ::T | AAC | GAG | CAC |
| Fimb_velata | TAT | :GC | CT: | ::: | ::: | :TT | ::: | :A | TGA | ::: | C:: | CCT | ::T | AAC | GAG | GAT |
| Fimb_sieberiana | TAT | :GC | CT: | ::: | ::: | :TT | ::: | :AT | TGA | ::: | C:: | CCT | ::T | AAC | GAG | GAT |
| Fimb_cericea | GAT | GGA | TGC | ::: | ::: | :TC | TTT | :AT | TGA | ::: | CC: | CCT | CCC | AAC | GAG | GAT |
| Fimb_ferruginea | GAT | :GC | CT: | ::: | ::: | :CT | ::: | :AA | TGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_triastachya | TAT | :GC | CT: | ::: | ::: | :TC | ::: | :AT | TGA | ::: | C:: | CCT | ::T | AAC | GAG | GAT |
| Fimb_tetragona_WA | GTT | :GC | CT: | ::: | ::: | :CT | ::: | :AA | TGA | :GA | C:: | CCC | :G | GAC | AAG | CAT |
| Fimb_densa_NT | GAT | :GC | CT: | ::: | ::: | :TC | ::: | :AA | TGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_schultzei | GAT | :GC | CT: | ::: | ::: | :CT | ::: | :AA | TGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_tetragona_Qld | GTT | :GC | CT: | ::: | ::: | :CT | ::: | :AA | TGA | :GA | C:: | CCC | :G | GAC | AAG | CAT |
| Fimb_cymosa | GAT | :GC | CTT | ::: | ::: | :TA | TTG | :T | TGA | ::: | ::: | CCC | TCC | AAC | GAG | GAT |
| Fimb_acuminata | GAT | :GC | CT: | ::: | ::: | :TT | ::: | :AA | TGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_pauciflora | GAT | :GC | CT: | ::: | ::: | :CT | ::: | :AA | TGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Fimb_polytrichoides_2 | TAT | :GC | CT: | ::: | ::: | :TT | ::: | :AT | TGA | ::: | C:: | CCT | ::T | AAC | GAG | GAT |
| Cross_setifolia_WA1 | GAT | :GC | CT: | ::: | ::: | :CT | ::: | :AA | CGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Cross_setifolia_WA2 | GAT | :GC | CT: | ::: | ::: | :CT | ::: | :AA | CGA | ::: | C:: | CCC | ::G | AAC | GAG | GAT |
| Eleocharis_cylindrostachys | TAG | CGC | G:T | CGC | ::: | ::: | CTA | ::: | :G | CGC | GGC | AGC | CTC | GGA | CCG | A:: |
| Schoenoplectus_littoralis | TTT | GCT | G:T | CGC | GGC | A:: | TTA | C:G | TCG | TGT | GGC | ATC | TTC | GGA | CCG | ATA |
| Bolboschoenus_calwellii | TTT | GCT | G:T | CGC | GGC | A:: | TTA | C:G | TCG | TGT | GGC | ATC | TTC | GGA | CCG | ATA |
| Arthrostylis_a_WA | GAT | GCC | G:C | TGC | GGC | G:: | TGA | A:G | TCG | TCC | GGC | GCG | TTC | G:: | ::: | ::: |
| Arthrostylis_aphylla_NT | GGC | GTG | G:T | TGC | GGC | G:: | CGA | A:G | TCG | TCC | GAC | GCG | GTC | GGA | CCG | ATA |
| Actinoschoenus_NT1 | CAT | GTC | G:C | TGC | GGC | G:: | TGA | A:G | TCN | TGC | GGC | GCG | TTC | GGA | C:: | ::: |
| Actinoschoenus_WA | CAT | GTC | G:C | TGC | GGC | G:: | TGA | A:G | TCN | TGC | GGC | GCG | TTC | GGA | C:: | ::: |
| Abil_oxystachya | CAT | GTC | G:C | TGC | AGC | G:: | TTA | C:G | TTG | TGA | GAC | ATG | TAC | GGA | C:: | ::: |
| Abil_vaginata | CAC | GTC | G:C | TGC | AAT | ATT | TTA | T:G | TTG | CTC | GGC | ATG | TTC | GGA | CTG | ::: |
| Abil_schoenoides | CAT | GTC | G:C | TGC | AGC | G:: | TTA | C:G | TTG | TGC | GAC | ATG | TAC | GGA | CCA | ATA |
| Abil_pachptera | CAT | GTC | G:C | TGC | AGC | G:: | TTA | C:G | TTG | TGC | GAC | ATG | TAC | GGA | CCA | ATA |
| Abil_ovata | C:: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Bulb_barbata | CAT | GTC | ATT | TGC | AGC | A:: | TGA | C:G | TTG | TGC | GAC | ATG | ACC | GGA | ::: | ::: |
| Bulb_densa | CGC | GTC | GCT | CGC | AGC | T:: | TGA | A:G | TTG | CGC | GGC | ATG | ATC | GGA | CTC | ATA |
| Bulb_striatella | TGC | GCC | GTT | CGC | AGC | G:: | AGA | C:G | TTG | CGC | GGC | ATG | ATC | GGA | CTC | ATA |
| Bulb_sp_nov_1 | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_littoralis | TAT | GTC | G:C | TGC | AAC | G:: | TTG | C:G | TTG | TGC | GGC | ATG | TTC | GGA | CTG | ATA |
| Cross_setifolia_NT_2 | CAC | GTC | G:C | TGC | AAT | ATT | TTA | T:G | TTG | CTC | GGC | ATG | TTC | GGA | CTG | ::: |
| Cross_setifolia_NT3 | CAC | GTC | G:C | TGC | AAT | ATT | TTA | T:G | TTG | CTC | GGC | ATG | TTC | GGA | CTG | ::: |
| Cross_setifolia_NT1 | CAC | GTC | G:C | TGC | AAT | ATT | TTA | T:G | TTG | CTC | GGC | ATG | TTC | GGA | CTG | ::: |
| Fimb_neilsonii | CAC | ACC | G:C | TGC | ACT | G:: | TTA | T:G | TTG | CGC | GGC | ATG | TTC | GGA | CTG | ATA |
| Fimb_cephalophora | CG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_cinnamometorum_NSW | TAT | GTT | G:C | TGC | ATT | G:: | TTA | T:G | TTG | TG: | :GC | ATG | TTC | ::: | ::: | ::: |
| Fimb_arnhemensis | CAC | GGC | G:C | TGC | AGC | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |
| Fimb_compacta | CGT | GCT | G:T | TGC | AGC | GTT | TTA | T:G | TTG | TG: | :GC | CAT | CTC | GCG | ::: | ::: |
| Fimb_bisumbellata | CAC | GTT | G:C | TGC | AGC | G:: | TTA | T:G | TTG | TGC | GAC | ATG | TTC | GGA | CTG | ATA |
| Fimb_cinnamometorum_WA | TAT | GTT | G:C | TGC | ATT | G:: | TTA | T:G | TTG | TG: | :GC | ATG | TTC | GGA | CTG | ATA |
| Fimb_densa_WA | CAC | :CT | G:C | TGC | AGC | GTT | TTA | T:G | TTG | TGC | TGC | ATG | TTC | GGA | CTG | ATA |
| Fimb_dichotoma | CAC | GTC | G:T | GCC | AGC | G:: | TTA | T:G | TTG | TGC | GGC | ATG | TTC | GGA | ::: | ::: |
| Fimb_rara | CAC | GCC | G:C | TGC | AGC | GCT | CTA | T:G | TTG | TGC | GGC | ATG | TTC | GGA | CTG | ATA |
| Fimb_pterygosperma_WA1 | CAC | GCT | G:T | TGC | AGT | GTT | TTA | T:G | CTG | TGC | GGC | ATG | TTC | GGA | CTG | ATA |
| Fimb_lanceolata | CG: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: | ::: |

Fimb_microcarya_WA1 CAC GCC G:C TGC AGC G:: TTA T:G TTG TGC GGC ATG TTC GGA CTG ATA
 Fimb_nutans CAC GCC G:C TGC AAT ATT TTA TTT TTG CAC GGC ATG TTC GGA CTG ATA
 Fimb_pterygosperma_NT CAC GCT G:T TGC AGT GTT TTA T:G ::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_microcarya_WA2 CAC GCC G:C TGC AGC G:: TTA T:G TTG TGC GGC ATG TTC GGA :::: ::::
 Fimb_laxiglumis TGC GTT G:C TGC AGT G:: TTA T:G TTG CGC GAC ATG TTC GGA :::: ::::
 Fimb_polytrichoides CAC GTC G:C GGC AGC GNN TTA T:G CTG TGC GAC ATG CTC GGA CTG ATA
 Fimb_velata CAC GTC G:C GGC AGC G:: TTA T:G TTG TGC GAC ATG TTC GGA CTG ATA
 Fimb_sieberiana CAC GTC G:C GGC AAC G:: TTA T:G TTG TGC GGC ATG TTC GGA CTG ATA
 Fimb_cericea CGC ACC G:C TGC A:: :::: TTA T:G :TG AA: GGA A:: TTC GCG :::: ::::
 Fimb_ferruginea CAC GGC G:C TGC AGC GCT CTA T:G TTG TGC GGC ATG TTC GGA :::: ::::
 Fimb_tristachya CAT GTT G:C GGC AGC G:: TTA T:G TTG TGC GGC ATG TTC GGA :::: ::::
 Fimb_tetragona_WA CAC GCT G:C TGC AGC GTT TTA T:G TTG TGI GGC AGT GCG :::: :::: ::::
 Fimb_densa_NT CAC Y:T G:C TTC AGC GTT TTA T:G TTG TGC TGC ATG TTC GGA CTG A::
 Fimb_schultzi TAC GCC G:C TGC AGC GTT TTA C:G TTG TGC GGC ATG T:: :::: :::: ::::
 Fimb_tetragona_Qld CAC GCT G:C TGC AGC G:: :::: :::: :::: :::: :::: :::: ::::
 Fimb_cymosa CAC ACC G:C TGC AGY ATA TTA T:G TTG CGC GGC ATG CTC :::: :::: ::::
 Fimb_acuminata CAT GCT G:T TGC AAC ATT TTA TT: TTG CGC GGC ATG TTC GGA :::: ::::
 Fimb_pauciflora CGC GTC G:T TGC AGC ATT TTT TTG TTG TGC GGC ATG TTC GGA CTG ATA
 Fimb_polytrichoides_2 CAC GTC G:T GGC AGC G:: TTA T:G TTG TGC GAC ATG CTC GGA CTG ATA
 Cross_setifolia_WA1 CAC GTC G:C TGC AAT ATT TTA T:G TTG CTC GAC ATG TTC G:: :::: ::::
 Cross_setifolia_WA2 CAC GTC G:C TGC AAT ATT TTA T:G TTG CTC GAC ATG TTC GGA CTG A::

Eleocharis_cylindrostachys :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Schoenocleptus_littoralis CCC CAG GTC AGG CGG GGC CAC CCG CTG AGT :::: :::: :::: :::: :::: ::::
 Bolboschoenus_caldwellii C:: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Arthrostylis_a_WA :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Arthrostylis_aphylla_NT CCC CAG GGT CAG GCC AA: :::: :::: :::: :::: :::: :::: ::::
 Actinoschoenus_NT1 :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Actinoschoenus_WA :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Abil_oxystachya :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Abil_vaginata :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Abil_schoenoides CCC CAG GTC AGC C:: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Abil_pachptera CCC :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Abil_ovata :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Bulb_barbata :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Bulb_densa CCC :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Bulb_striatella :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Bulb_sp_nov_1 :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_littoralis CCC CAG GTC A:: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Cross_setifolia_NT_2 :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Cross_setifolia_NT3 :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Cross_setifolia_NT1 :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_neilsonii CCC CAG GTC AGG CGT GGC CAC CCG CTG AGT TTA AGC ATA TCA TTA AAG
 Fimb_cephalophora :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_cinnamometorum_NSW :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_arnhemensis :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_compacta :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_bisumbellata C:: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_cinnamometorum_WA C:: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_densa_WA :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_dichotoma :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_rara C:: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_pterygosperma_WA1 C:: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_lanceolata :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_microcarya_WA1 :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_nutans C:: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_pterygosperma_NT :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_microcarya_WA2 :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_laxiglumis :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_polytrichoides CCC CAG GTC AGG CGT GGC CAC CCG C:: :::: :::: :::: :::: ::::
 Fimb_velata CCC CAG GTC AGG CGT GGC CAC CCG CTG AGT TTA AGC ATA TCA T:: ::::
 Fimb_sieberiana CCC CAG GTC AGG CGT GGC CAC CCG CTG AT: :::: :::: :::: ::::
 Fimb_cericea :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_ferruginea :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_tristachya :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_tetragona_WA :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_densa_NT :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_schultzi :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_tetragona_Qld :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_cymosa :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_acuminata :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Fimb_pauciflora CCC CAG GTC AGG CGT GTC :::: :::: :::: :::: :::: ::::
 Fimb_polytrichoides_2 CCC CAG GTC AGG CGT GGC CAC CCG CTG AGT A:: :::: :::: ::::
 Cross_setifolia_WA1 :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::
 Cross_setifolia_WA2 :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: :::: ::::

Eleocharis_cylindrostachys :::: :::: :::G 010 000 000 100 011 0?0 000 010 100 000 100 000 001

Appendix 4

| | | | | | | | | | | | | | | | |
|----------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Schoenoplectus_littoralis | ::: ::: | ::0 | 001 | 010 | 001 | 000 | 101 | 101 | 000 | 011 | 000 | 030 | 100 | 300 | 010 |
| Bolboschoenus_caldwellii | ::: ::: | ::0 | 001 | 010 | 001 | 000 | 101 | 101 | 000 | 011 | 100 | 000 | 100 | 300 | 010 |
| Arthrostylis_a_WA | ::: ::: | ::0 | 000 | 000 | 000 | 100 | 000 | 000 | 000 | 100 | 100 | 000 | 100 | 300 | 001 |
| Arthrostylis_aphylla_NT | ::: ::: | ::0 | 000 | 000 | 000 | 100 | 000 | 000 | 000 | 100 | 100 | 000 | 100 | 000 | 001 |
| Actinoschoenus_NT1 | ::: ::: | ::0 | 000 | 000 | 000 | 100 | 000 | 000 | 001 | 000 | 100 | 000 | 100 | 000 | 001 |
| Actinoschoenus_WA | ::: ::: | ::0 | 000 | 000 | 000 | 100 | 000 | 000 | 001 | 000 | 100 | 000 | 100 | 000 | 001 |
| Abil_oxystachya | ::: ::: | ::0 | 000 | 000 | 000 | 100 | 000 | 000 | 010 | 000 | 000 | 300 | 000 | 000 | 010 |
| Abil_vaginata | ::: ::: | ::1 | 000 | 000 | 000 | 010 | 000 | 000 | 100 | 000 | 000 | 300 | 000 | 000 | 100 |
| Abil_schoenoides | ::: ::: | ::0 | 000 | 000 | 000 | 100 | 000 | 000 | 010 | 000 | 000 | 300 | 000 | 000 | 100 |
| Abil_pachptera | ::: ::: | ::0 | 000 | 000 | 000 | 100 | 000 | 000 | 010 | 000 | 000 | 000 | 000 | 000 | 100 |
| Abil_ovata | ::: ::: | ::0 | 000 | 000 | 110 | 100 | 000 | 000 | 100 | 010 | 000 | 000 | 000 | 100 | 100 |
| Bulb_barbata | ::: ::: | ::0 | 010 | 000 | 000 | 100 | 000 | 000 | 010 | 010 | 100 | 000 | 011 | 000 | 310 |
| Bulb_densa | ::: ::: | ::0 | 000 | 000 | 000 | 100 | 000 | 000 | 010 | 010 | 001 | 300 | 011 | 000 | 010 |
| Bulb_striatella | ::: ::: | ::0 | 010 | 000 | 000 | 100 | 000 | 000 | 010 | 010 | 100 | 000 | 011 | 000 | 010 |
| Bulb_sp_nov_1 | ::: ::: | ::0 | 010 | 001 | 110 | 100 | 300 | 000 | 000 | 010 | 100 | 010 | 010 | 000 | 001 |
| Fimb_littoralis | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 300 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 100 |
| Cross_setifolia_NT_2 | ::: ::: | ::1 | 000 | 000 | 000 | 010 | 000 | 000 | 100 | 000 | 000 | 000 | 000 | 000 | 001 |
| Cross_setifolia_NT? | ::: ::: | ::1 | 000 | 000 | 000 | 010 | 000 | 000 | 010 | 000 | 000 | 000 | 000 | 000 | 001 |
| Cross_setifolia_NT1 | ::: ::: | ::1 | 000 | 000 | 000 | 010 | 000 | 000 | 100 | 000 | 000 | 000 | 000 | 000 | 001 |
| Fimb_neilsonii | CGG AGG AAO | 000 | 000 | 000 | 001 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 000 | 001 |
| Fimb_cephalophora | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 010 | 000 | 010 | 000 | 000 | 110 | 000 | 001 |
| Fimb_cinnamometorum_NSW | ::: ::: | ::0 | 000 | 101 | 000 | 001 | 010 | 000 | 010 | 000 | 000 | 000 | 000 | 000 | 001 |
| Fimb_arnhemensis | ::: ::: | ::0 | 000 | 300 | 000 | 001 | 000 | 000 | 010 | 010 | 000 | 000 | 110 | 000 | 001 |
| Fimb_compacta | ::: ::: | ::0 | 000 | 300 | 000 | 001 | 000 | 010 | 000 | 010 | 000 | 000 | 110 | 000 | 001 |
| Fimb_bisumbellata | ::: ::: | ::0 | 000 | 300 | 000 | 000 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_cinnamometorum_WA | ::: ::: | ::0 | 000 | 101 | 000 | 001 | 010 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_densa_WA | ::: ::: | ::0 | 001 | 000 | 000 | 001 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_dichotoma | ::: ::: | ::0 | 000 | 000 | 000 | 000 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 100 | 001 |
| Fimb_rara | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 000 | 000 | 010 | 000 | 000 | 000 | 100 | 001 |
| Fimb_pterygosperma_WA1 | ::: ::: | ::0 | 100 | 000 | 000 | 001 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_lanceolata | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 010 | 000 | 010 | 000 | 000 | 110 | 000 | 001 |
| Fimb_microcarya_WA1 | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 100 |
| Fimb_nutans | ::: ::: | ::0 | 000 | 300 | 000 | 000 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_pterygosperma_NT | ::: ::: | ::0 | 100 | 000 | 000 | 001 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_microcarya_WA2 | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 100 |
| Fimb_laxiglumis | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 000 | 000 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_polytrichoides | ::: ::: | ::0 | 000 | 000 | 000 | 000 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_velata | ::: ::: | ::0 | 000 | 000 | 000 | 000 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_sieberiana | ::: ::: | ::0 | 000 | 000 | 000 | 000 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_cericea | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 011 | 100 |
| Fimb_ferruginea | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 000 | 000 | 010 | 000 | 000 | 000 | 100 | 001 |
| Fimb_tristachya | ::: ::: | ::0 | 000 | 000 | 000 | 000 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_tetragona_WA | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 000 | 000 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_densa_NT | ::: ::: | ::0 | 001 | 000 | 000 | 001 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_schultzii | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_tetragona_Qld | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 000 | 000 | 010 | 000 | 000 | 101 | 000 | 001 |
| Fimb_cymosa | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 000 | 001 | 010 | 001 | 300 | 000 | 310 | 100 |
| Fimb_acuminata | ::: ::: | ::0 | 000 | 000 | 000 | 001 | 000 | 000 | 000 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_pauciflora | ::: ::: | ::0 | 000 | 000 | 000 | 000 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Fimb_polytrichoides_2 | ::: ::: | ::0 | 000 | 000 | 000 | 000 | 000 | 000 | 010 | 010 | 000 | 000 | 000 | 000 | 001 |
| Cross_setifolia_WA1 | ::: ::: | ::1 | 000 | 000 | 000 | 010 | 000 | 000 | 100 | 010 | 010 | 000 | 000 | 000 | 001 |
| Cross_setifolia_WA2 | ::: ::: | ::1 | 000 | 000 | 000 | 010 | 000 | 000 | 100 | 010 | 010 | 000 | 000 | 000 | 001 |
| Eleocharis_cylindrostachys | 100 | 000 | 000 | 000 | 00 | | | | | | | | | | |
| Schoenoplectus_littoralis | 110 | 000 | 010 | 000 | 00 | | | | | | | | | | |
| Bolboschoenus_caldwellii | 110 | 000 | 010 | 000 | 00 | | | | | | | | | | |
| Arthrostylis_a_WA | 101 | 000 | 010 | 000 | 00 | | | | | | | | | | |
| Arthrostylis_aphylla_NT | 101 | 000 | 010 | 000 | 00 | | | | | | | | | | |
| Actinoschoenus_NT1 | 101 | 000 | 010 | 000 | 00 | | | | | | | | | | |
| Actinoschoenus_WA | 101 | 000 | 010 | 000 | 00 | | | | | | | | | | |
| Abil_oxystachya | 100 | 100 | 010 | 000 | 00 | | | | | | | | | | |
| Abil_vaginata | 000 | 000 | 000 | 310 | 10 | | | | | | | | | | |
| Abil_schoenoides | 100 | 100 | 010 | 000 | 00 | | | | | | | | | | |
| Abil_pachptera | 100 | 100 | 010 | 000 | 00 | | | | | | | | | | |
| Abil_ovata | 100 | 100 | 010 | 000 | 20 | | | | | | | | | | |
| Bulb_barbata | 000 | 000 | 010 | 000 | 00 | | | | | | | | | | |
| Bulb_densa | 000 | 010 | 010 | 000 | 00 | | | | | | | | | | |
| Bulb_striatella | 000 | 010 | 010 | 000 | 00 | | | | | | | | | | |
| Bulb_sp_nov_1 | 000 | 000 | 000 | 000 | 20 | | | | | | | | | | |
| Fimb_littoralis | 000 | 000 | 000 | 000 | 00 | | | | | | | | | | |
| Cross_setifolia_NT_2 | 000 | 000 | 000 | 010 | 10 | | | | | | | | | | |
| Cross_setifolia_NT3 | 000 | 000 | 000 | 010 | 10 | | | | | | | | | | |
| Cross_setifolia_NT1 | 000 | 000 | 000 | 010 | 10 | | | | | | | | | | |
| Fimb_neilsonii | 000 | 001 | 001 | 100 | 00 | | | | | | | | | | |
| Fimb_cephalophora | 000 | 000 | 000 | 000 | 20 | | | | | | | | | | |
| Fimb_cinnamometorum_NSW | 000 | 000 | 000 | 000 | 01 | | | | | | | | | | |
| Fimb_arnhemensis | 000 | 000 | 000 | 000 | 20 | | | | | | | | | | |

| | | | | | |
|------------------------|-----|-----|-----|-----|----|
| Fimb_compacta | 000 | 000 | 000 | 010 | 10 |
| Fimb_bisumbellata | 000 | 001 | 000 | 000 | 00 |
| Fimb_cinnamometorum_WA | 000 | 000 | 000 | 000 | 01 |
| Fimb_densa_WA | 000 | 000 | 000 | 010 | 10 |
| Fimb_dichotoma | 000 | 001 | 000 | 000 | 00 |
| Fimb_rara | 000 | 000 | 000 | 011 | 00 |
| Fimb_pterygosperma_WA1 | 000 | 000 | 000 | 010 | 10 |
| Fimb_lanceolata | 000 | 000 | 000 | 0?? | ?0 |
| Fimb_microcarya_WA1 | 000 | 001 | 000 | 000 | 00 |
| Fimb_nutans | 000 | 000 | 010 | 010 | 10 |
| Fimb_pterygosperma_NT | 000 | 000 | 000 | 010 | 10 |
| Fimb_microcarya_WA2 | 000 | 001 | 000 | 000 | 00 |
| Fimb_laxiglumis | 000 | 001 | 000 | 000 | 00 |
| Fimb_polytrichoides | 000 | 001 | 000 | 000 | 00 |
| Fimb_velata | 000 | 000 | 000 | 000 | 00 |
| Fimb_siebertiana | 000 | 001 | 000 | 000 | 00 |
| Fimb_cericea | 100 | 001 | 001 | 0?0 | 00 |
| Fimb_ferruginea | 000 | 000 | 000 | 011 | 00 |
| Fimb_tristachya | 000 | 001 | 000 | 000 | 00 |
| Fimb_tetragona_WA | 000 | 000 | 100 | 010 | 10 |
| Fimb_densa_NT | 000 | 000 | 000 | 010 | 10 |
| Fimb_schultzii | 000 | 000 | 000 | 010 | 10 |
| Fimb_tetragona_Qld | 000 | 000 | 100 | 010 | 10 |
| Fimb_cymosa | 100 | 000 | 001 | 110 | 10 |
| Fimb_acuminata | 000 | 000 | 000 | 010 | 10 |
| Fimb_pauciflora | 000 | 000 | 000 | 010 | 10 |
| Fimb_polytrichoides_2 | 000 | 001 | 000 | 000 | 00 |
| Crcss_setifolia_WA1 | 000 | 000 | 000 | 010 | 10 |
| Crcss_setifolia_WA2 | 000 | 000 | 000 | 010 | 10 |

Appendix 5. DNA isolation method used in this study (Dellaporta *et al.* 1983) modified by A. Marchant (pers. comm.)

1. The material was ground to a fine powder in a mortar with about half a teaspoon of sand. Liquid nitrogen was added as the silica gel material was ground.
2. The powder was transferred to a 50 ml centrifuge tube containing 40 ml ice-cold rinse buffer (50 mM Tris, 100 mM EDTA, 100 mM NaCl, 1% PVP, pH 7.5), then mixed and stored in refrigerator at 4°C for at least 30 min.
3. The mixture was centrifuged in a cooled centrifuge (Sigma 4K-10 centrifuge, rotor#11140) (5°C, 10 min at 5000 rpm = 4400% g), and the supernatant was discarded.
4. 10 ml preheated (65°C) digestion buffer (50 mM Tris, 100 mM NaCl, 100 mM EDTA, 0.5% SDS, pH 7.5) was added to the sediment, and mixed, and then incubated at 65°C for 30 min, with gentle shaking at 5 min intervals.
5. 3 ml of 3 M potassium acetate was added.
6. The mixture was then stored in ice/water for half an hour.
7. The mixture was centrifuged at 5°C at 5000 rpm for 15 min.
8. The supernatant was transferred to a new 50 ml tube, to which twice the supernatant volume of cold 95% ethanol (-20°C) was added. Usually an obvious nucleic acid precipitate should appear, but for my material it did not, so the sample was placed in a freezer (-20°C) overnight (up to three days for older material), then centrifuged at room temperature at 5000 rpm for 30 min.
9. The supernatant was discarded.
10. The pellet was washed with 70% ethanol: 10 ml of 70% ethanol added, and left for 10 min, after which it was centrifuged at room temperature for seven min at 5000 rpm.
11. The supernatant was discarded, and putting the tube upside down on a paper hand towel until all visible traces of ethanol had gone, dried the pellet. The DNA was dissolved in 500 µl of Tris-EDTA buffer (TE: 10 mM Tris, 1 mM EDTA, pH 7.6).

Appendix 6. DNA purification method (modified dicalite by A. Marchant [pers. Comm.]) used in this study

1. 1500 μ l of binding buffer (50 mM Tris, 6 mM NaClO₄, 1 mM EDTA, pH 7.5, warmed to room temperature before use) was added to DNA solution, mixed and allowed to stand for 20 min.
2. 300 μ l of diatomite (Diatomaceous earth from Sigma #D-3877, suspended in water, according to the protocol of Gilmore et al. 1993) was added, and the contents were mixed for 20–30 min by regular gentle inversion to allow the DNA to bind to the diatomite.
3. The mixture was centrifuged at room temperature at 3000 rpm (= 1600 % g) for five min, the supernatant was discarded, and the tube was put upside down on a paper hand towel.
4. 1.5 ml of wash buffer 1 (3 volumes binding, 1 volume water, warmed to room temperature before use) was added and shaken. The mixture was centrifuged at room temperature at 3000 rpm for five min. The supernatant was discarded, and the tube was put upside down on a paper hand towel.
5. 1.5 ml of wash buffer 2 (1 volume 40 mM Tris, 4 mM EDTA, 0.8 M NaCl, 1 volume 95% ethanol, warmed to room temperature before use) was added and shaken. The mixture was centrifuged at room temperature at 3000 rpm for five min. The supernatant was discarded, and the tube was put upside down on a paper hand towel. This step was repeated once in most of the samples or twice in a few samples that were difficult in giving a sufficient amount of DNA in earlier stages.
6. 300 μ l TE buffer (10 mM Tris, pH 8.0, 1 mM EDTA) was added and shaken, then the mixture was incubated, with regular inversion, at 40–50°C for 20–30 min.
7. The mixture was centrifuged at 3000 rpm for five min, and the supernatant was collected into a 2 ml microfuge tube.
8. 200 μ l TE buffer was added to the pellet, shaken, and then centrifuged at 3000 rpm for five min. All of the supernatant was collected into the same 2 ml microfuge tube.
9. 5 μ l of the sample (i.e. the supernatant) was run on the gel and the sample was stored in the freezer (-20°C).