

cpSSRs in four *Urochloa* species

| Location | Region | Motif (<i>U. brizantha</i>) | SSR start1 | SSR end | Polymorphism | <i>U. decumbens</i> | <i>U. ruziziensis</i> | <i>U. humidicola</i> |
|--------------------------|-------------|-------------------------------|------------|---------|--------------|---------------------|----------------------------|----------------------------|
| <i>psbA</i> | exon | (CTT/AAG)3 | 310 | 318 | monomorphic | | | |
| <i>psbA</i> | exon | (AGA/TCT)3 | 403 | 411 | monomorphic | | | |
| <i>trnK-UUU-intron</i> | intron | (T/A)10 | 3525 | 3534 | polymorphic | (T/A)10 | (T/A)9 | (T/A)9 |
| <i>trnK-UUU-intron</i> | intron | (T/A)12 | 3727 | 3738 | polymorphic | (T/A)10 | (T/A)10 | (T/A)8 |
| <i>psbK-psbI</i> | intergenic | (T/A)10 | 7145 | 7154 | polymorphic | (T/A)10 | (T/A)11 | (T/A)7 |
| <i>psbC</i> | exon | (GCT/AGC)3 | 10934 | 10942 | polymorphic | (GCT/AGC)3 | (GCT/AGC)2 | (GCT/AGC)3 |
| <i>psbZ-trnG-UCC</i> | intergenic | (TAAA/TTTA)3 | 11809 | 11820 | polymorphic | (TAAA/TTTA)3 | (TAAA/TTTA)1 | (TAAA/TTTA)3 |
| <i>trnM-CAU-trnT-GGU</i> | intergenic | (A/T)10 | 12715 | 12724 | polymorphic | (A/T)9 | (A/T)8 | (A/T)8 |
| <i>trnM-CAU-trnT-GGU</i> | intergenic | (ATA/TAT)3 | 14991 | 14999 | monomorphic | | | |
| <i>trnM-CAU-trnT-GGU</i> | intergenic | (ATA/TAT)3 | 15138 | 15146 | polymorphic | (ATA/TAT)2 | absent | absent |
| <i>trnM-CAU-trnE-UUC</i> | intergenic | (A/T)10 | 15337 | 15346 | polymorphic | (A/T)9 | (A/T)9 | (A/T)8 |
| <i>trnD-GUC-psbM</i> | intergenic | (ATAC/GTAT)3 | 17090 | 17101 | monomorphic | | | |
| <i>trnD-GUC-psbM</i> | intergenic | (A/T)12 | 17432 | 17442 | polymorphic | (A/T)6-T-(A/T)4 | (A/T)9 | (A/T)9 |
| <i>psbM-petN</i> | intergenic | (A/T)11 | 17900 | 17910 | polymorphic | (A/T)11 | (A/T)10 | (A/T)8 |
| <i>TrnC-GCA-rpoB</i> | intergenic | (A/T)12 | 19521 | 19532 | polymorphic | (A/T)9 | (A/T)4-C-(A/T)7 | (A/T)4-C-(A/T)8 |
| <i>TrnC-GCA-rpoB</i> | intergenic | (CTA/TAG)3 | 19916 | 19924 | monomorphic | | | |
| <i>RpoB-rpoC1</i> | intergenic | (AGA/TCT)3 | 20998 | 21006 | monomorphic | | | |
| <i>rpoC2</i> | exon | (TAT/ATA)3 | 26120 | 26128 | monomorphic | | | |
| <i>rpoC2</i> | exon | (AT/AT)5 | 26616 | 26625 | monomorphic | | | |
| <i>rpoC2</i> | exon | (AGA/TCT)3 | 27802 | 27810 | monomorphic | | | |
| <i>rpoC2</i> | exon | (AGA/TCT)3 | 28132 | 28140 | undefined | (AGA/TCT)3 | motif change (AGA)GGA(AGA) | motif change (AGA)GGA(AGA) |
| <i>rpoC2</i> | exon | (AGA/TCT)3 | 28144 | 28152 | monomorphic | | | |
| <i>rpoC2</i> | exon | (AGA/TCT)3 | 28198 | 28206 | monomorphic | | | |
| <i>rpoC2</i> | exon | (A/T)10 | 30336 | 30345 | monomorphic | | | |
| <i>rpoC2-rps2</i> | intergenic | (ATT/AAT)3 | 30650 | 30658 | monomorphic | | | |
| <i>rpoC2-rps2</i> | intergenic | (A/T)10 | 30732 | 30741 | polymorphic | (A/T)21 | (A/T)9 | (A/T)8 |
| <i>atpI</i> | exon | (GTT/AAC)3 | 32319 | 32327 | monomorphic | | | |
| <i>AtpI-atpH</i> | intergenic | (A/T)12 | 33242 | 33253 | polymorphic | (A/T)10 | (A/T)10 | (A/T)10 |
| <i>atpH</i> | exon | (TGC/GCA)3 | 33285 | 33293 | monomorphic | | | |
| <i>psaA</i> | exon | (TTG/CAA)3 | 41021 | 41029 | monomorphic | | | |
| <i>psaA</i> | exon | (GCA/TGC)3 | 41314 | 41322 | monomorphic | | | |
| <i>psaA</i> | exon | (TAG/CTA)3 | 41441 | 41449 | undefined | (TAG/CTA)3 | motif change (TAG)TTG(TAG) | motif change (TAG)TTG(TAG) |
| <i>PsaA-ycf3</i> | intergenic | (A/T)10 | 42643 | 42652 | polymorphic | (A/T)11 | (A/T)13 | (A/T)13 |
| <i>ycf3</i> | intron | (A/T)11 | 43783 | 43793 | polymorphic | (A/T)11 | (A/T)10 | (A/T)8 |
| <i>ycf3</i> | intron | (TCCT/AGGA)3 | 43916 | 43927 | monomorphic | | | |
| <i>ycf3</i> | intron | (A/T)11 | 44990 | 45000 | polymorphic | (A/T)11 | (A/T)24 | (A/T)17 |
| <i>ycf3</i> | intron | (A/T)12 | 45002 | 45013 | polymorphic | (A/T)11 | (A/T)24 | (A/T)17 |
| <i>TrnT-UGU-trnL-UAA</i> | intergenic | (A/T)14 | 47400 | 47413 | polymorphic | (A/T)12 | (A/T)10 | (A/T)4-A-(A/T)9 |
| <i>TrnT-UGU-trnL-UAA</i> | intergenic | (A/T)10 | 47495 | 47504 | polymorphic | (A/T)10 | (A/T)9 | (A/T)8 |
| <i>ndhK</i> | exon | (ACC/GGT)3 | 50461 | 50469 | monomorphic | | | |
| <i>ndhK</i> | exon | (A/T)15 | 50621 | 50635 | polymorphic | (A/T)15 | (A/T)15 | (A/T)9 |
| <i>TrnM-CAU</i> | Exon-intron | (GTAG/CATC)4 | 52885 | 52900 | polymorphic | (GTAG/CATC)4 | (GTAG/CATC)4 | (GTAG/CATC)3 |
| <i>atpB</i> | exon | (TCC/GGA)3 | 53661 | 53669 | monomorphic | | | |
| <i>AtpB-rbcL</i> | intergenic | (AAC/GTT)3 | 55440 | 55448 | monomorphic | | | |
| <i>petA</i> | exon | (TTC/GAA)3 | 61102 | 61110 | monomorphic | | | |
| <i>TrnP-UGG-psaJ</i> | intergenic | (TA/TA)5 | 65236 | 65245 | polymorphic | (TA/TA)5 | (TA/TA)5 | (TA/TA)6 |
| <i>TrnP-UGG-psaJ</i> | intergenic | (A/T)10 | 65260 | 65269 | polymorphic | (A/T)9 | (A/T)12 | (A/T)12 |
| <i>PsaJ-rpl33</i> | intergenic | (TTC/GAA)4 | 65751 | 65762 | undefined | (TTC/GAA)4 | (TTC/GAA)4 | motif change (TTC)T(TTC) |
| <i>rpl33-rps18</i> | intergenic | (TA/TA)5 | 66185 | 66194 | polymorphic | (TA/TA)5 | (TA/TA)5 | (TA/TA)4 |
| <i>rpl33-rps18</i> | intergenic | (A/T)11 | 66273 | 66283 | polymorphic | (A/T)12 | (A/T)13 | (A/T)11 |
| <i>rps18</i> | exon | (AAC/GTT)3 | 66560 | 66568 | monomorphic | | | |
| <i>rpl20-rps12</i> | intergenic | (TAA/TTA)3 | 67449 | 67457 | monomorphic | | | |
| <i>rps12-exon-clpP</i> | intergenic | (TCA/TGA)3 | 68249 | 68257 | monomorphic | | | |
| <i>ClpP-psbB</i> | intergenic | (AGAA/TTCT)3 | 69058 | 69069 | monomorphic | | | |
| <i>PsbH-petB</i> | intergenic | (A/T)10 | 72126 | 72135 | polymorphic | (A/T)8 | (A/T)8 | (A/T)6-C-(A/T)3 |
| <i>PsbH-petB</i> | intergenic | (A/T)11 | 72380 | 72390 | polymorphic | (A/T)6 | (A/T)6 | (A/T)7 |
| <i>PetD-rpoA</i> | intergenic | (A/T)11 | 74934 | 74944 | polymorphic | (A/T)13 | (A/T)15 | (A/T)10 |
| <i>RpoA-rps11</i> | intergenic | (TAT/ATA)3 | 76002 | 76010 | monomorphic | | | |
| <i>infA</i> | exon | (A/T)11 | 77160 | 77170 | polymorphic | (A/T)10 | (A/T)10 | (A/T)11 |
| <i>infA</i> | exon | (A/T)10 | 77179 | 77188 | monomorphic | | | |
| <i>rp114</i> | exon | (TAT/ATA)3 | 77962 | 77970 | monomorphic | | | |
| <i>rpl16</i> | exon | (A/T)14 | 79248 | 79261 | polymorphic | (A/T)7 | (A/T)7 | (A/T)7 |
| <i>rpl16</i> | exon | (TTC/GAA)3 | 79343 | 79351 | monomorphic | | | |
| <i>rps3</i> | exon | (TTC/GAA)3 | 79778 | 79786 | monomorphic | | | |
| <i>rpl22</i> | exon | (TGC/GCA)3 | 80684 | 80692 | monomorphic | | | |
| <i>rpl22</i> | exon | (TTC/GAA)3 | 80904 | 80912 | monomorphic | | | |
| <i>rpl12</i> | exon | (TTC/GAA)3 | 81638 | 81646 | monomorphic | | | |
| <i>TrnI-CAU-trnL-CAA</i> | intergenic | (AGG/CCT)3 | 85193 | 85201 | monomorphic | | | |
| <i>TrnI-CAU-trnL-CAA</i> | intergenic | (AAG/CTT)3 | 85271 | 85279 | monomorphic | | | |
| <i>TrnI-CAU-trnL-CAA</i> | intergenic | (A/T)10 | 86767 | 86776 | polymorphic | (A/T)10 | (A/T)10 | (A/T)9 |
| <i>ndhB</i> | exon | (AGA/TCT)3 | 88555 | 88563 | monomorphic | | | |
| <i>ndhB</i> | exon | (AGA/TCT)3 | 90024 | 90032 | monomorphic | | | |
| <i>rps7-trnV-GAC</i> | intergenic | (AAG/CTT)3 | 93126 | 93134 | monomorphic | | | |
| <i>rm16</i> | exon | (AAC/GTT)3 | 93914 | 93922 | monomorphic | | | |
| <i>TrnI-GAU</i> | intron | (TCCT/AGGA)3 | 96110 | 96121 | monomorphic | | | |
| <i>Rrm4.5</i> | exon | (AACG/CGTT)3 | 100751 | 100762 | monomorphic | | | |
| <i>NdhF-rpl32</i> | intergenic | (AATG/CATT)3 | 106252 | 106263 | polymorphic | (AATG/CATT)3 | (AATG/CATT)4 | (AATG/CATT)3 |
| <i>ccsA</i> | exon | (A/T)10 | 108142 | 108151 | polymorphic | (A/T)8 | absent | (A/T)8 |
| <i>ndhD</i> | exon | (AATA/TATT)3 | 108998 | 109009 | monomorphic | | | |
| <i>PsaC-ndhE</i> | intergenic | (AAT/ATT)3 | 110810 | 110818 | monomorphic | | | |
| <i>PsaC-ndhE</i> | intergenic | (TAT/ATA)3 | 111112 | 111120 | monomorphic | | | |
| <i>ndhA</i> | exon | (TTC/GAA)3 | 113375 | 113383 | monomorphic | | | |
| <i>ndhH</i> | exon | (ATCC/GGAT)3 | 115725 | 115736 | monomorphic | | | |
| <i>ndhH</i> | exon | (TC/GA)5 | 115828 | 115837 | monomorphic | | | |