Table S3 Distribution of SSRs in the *S. suchowensis* chloroplast genome

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Type | Motif | No.of Repeats | Start | End | Location |
| Monomer | T | 9 | 1274 | 1282 | IGS (*rps3*, *rpl16*) |
|  | T | 10 | 3007 | 3016 | IGS (*rpl16*, *rpl14*) |
|  | T | 12 | 3861 | 3872 | *rps8* |
|  | T | 9 | 6352 | 6360 | IGS (*rpoA*, *petD*) |
|  | T | 9 | 12096 | 12104 | IGS (*psbB*, *clpP*) |
|  | T | 9 | 12290 | 12298 | IGS (*psbB*, *clpP*) |
|  | T | 9 | 12489 | 12497 | IGS (*psbB*, *clpP*) |
|  | T | 9 | 13198 | 13206 | *clpP* (intron) |
|  | T | 10 | 13941 | 13950 | *clpP* (intron) |
|  | T | 10 | 14039 | 14048 | *clpP* (intron) |
|  | T | 9 | 14962 | 14970 | IGS (*rps12*, *rpl20*) |
|  | T | 9 | 16212 | 16220 | IGS (*rpl20*, *rps18*) |
|  | T | 10 | 18846 | 18855 | IGS (*petG*, *petL*) |
|  | T | 9 | 19460 | 19468 | IGS (*petL*, *psbE*) |
|  | T | 9 | 21194 | 21202 | IGS (*psbJ*, *petA*) |
|  | T | 9 | 25473 | 25481 | IGS (*psaI*, *accD*) |
|  | T | 9 | 33457 | 33465 | IGS (*trnV-UAC*, *ndhC*) |
|  | T | 9 | 34202 | 34210 | IGS (*trnV-UAC*, *ndhC*) |
|  | T | 9 | 37970 | 37978 | *trnL-UAA* (intron) |
|  | T | 9 | 38440 | 38448 | IGS (*trnL-UAA*, *trnL-UGU*) |
|  | T | 10 | 38647 | 38656 | IGS (*trnL-UGU*, *rps4*) |
|  | T | 12 | 38660 | 38671 | IGS (*trnL-UGU*, *rps4*) |
|  | T | 10 | 40134 | 40143 | IGS (*trnS-GGA*, *ycf3*) |
|  | T | 10 | 53148 | 53157 | IGS (*psbD*, *trnT-GGU*) |
|  | T | 10 | 54465 | 54474 | IGS (*trnY-GUA*, *trnD-GUC*) |
|  | T | 10 | 55499 | 55508 | IGS (*trnD-GUC*, *psbM*) |
|  | T | 9 | 57964 | 57972 | IGS (*trnC-GCA*, *rpoB*) |
|  | T | 9 | 59084 | 59092 | IGS (*trnC-GCA*, *rpoB*) |
|  | T | 9 | 63015 | 63023 | *rpoC1* (intron) |
|  | T | 9 | 69789 | 69797 | IGS (*rpoC2*, *rps2*) |
|  | T | 9 | 72800 | 72808 | IGS (*atpH*, *atpF*) |
|  | T | 9 | 74545 | 74553 | IGS (*atpF*, *atpA*) |
|  | T | 9 | 78146 | 78154 | IGS (*trnS-GCU*, *psbI*) |
|  | T | 9 | 78175 | 78183 | IGS (*trnS-GCU*, *psbI*) |
|  | T | 9 | 78266 | 78274 | IGS (*trnS-GCU*, *psbI*) |
|  | T | 9 | 78402 | 78410 | IGS (*psbI*, *psbK*) |
|  | T | 9 | 79919 | 79927 | IGS (*trnQ-UUG*, *trnK-UUU*) |
|  | T | 9 | 84307 | 84315 | IGS (*psbA*, *trnH-GUG*) |
|  | T | 9 | 84944 | 84952 | *rps19* |
|  | T | 16 | 84983 | 84998 | IGS (*rps19*, *rpl2*) |
|  | T | 10 | 97991 | 98000 | IGS (*ndhB*, *rps7*) |
|  | T | 10 | 99708 | 99717 | IGS (*rps12*, *trnV-GAC*) |
|  | T | 9 | 103747 | 103755 | *trnI-GAU* (intron) |
|  | T | 10 | 109200 | 109209 | IGS (*trnR-ACG*, *trnN-GUU*) |
|  | T | 11 | 109350 | 109360 | IGS (*trnR-ACG*, *trnN-GUU*) |
|  | T | 11 | 111736 | 111746 | *ycf1* |
|  | T | 9 | 116031 | 116039 | IGS (*ccsA*, *ndhD*) |
|  | T | 9 | 124214 | 124222 | IGS (*rps15*, *ycf1*) |
|  | T | 9 | 124852 | 124860 | *ycf1* |
|  | T | 10 | 125596 | 125605 | *ycf1* |
|  | T | 9 | 126803 | 126811 | *ycf1* |
|  | T | 11 | 127103 | 127113 | *ycf1* |
|  | T | 11 | 128348 | 128358 | *ycf1* |
|  | T | 11 | 130734 | 130744 | IGS (*trnN-GUU*, *trnR-ACG*) |
|  | T | 10 | 131302 | 131311 | IGS (*trnR-ACG*, *rRNA5*) |
|  | T | 9 | 131614 | 131622 | *cp005* |
|  | T | 9 | 149691 | 149699 | *ycf2* |
|  | A | 12 | 1286 | 1297 | IGS (*rps3*, *rpl16*) |
|  | A | 10 | 3627 | 3636 | IGS (*rpl14*, *rps8*) |
|  | A | 9 | 4144 | 4152 | IGS (*rps8*, *infA*) |
|  | A | 13 | 18322 | 18334 | IGS (*trnP-UGG*, *trnw-CCA*) |
|  | A | 10 | 18831 | 18840 | IGS (*petG*, *petL*) |
|  | A | 11 | 19137 | 19147 | IGS (*petL*, *psbE*) |
|  | A | 9 | 19566 | 19574 | IGS (*petL*, *psbE*) |
|  | A | 9 | 24043 | 24051 | IGS (*cemA*, *ycf4*) |
|  | A | 10 | 24054 | 24063 | IGS (*cemA*, *ycf4*) |
|  | A | 11 | 25052 | 25062 | IGS(*ycf4*, *psaI*) |
|  | A | 10 | 25701 | 25710 | IGS (*psaI*, *accD*) |
|  | A | 9 | 29713 | 29721 | IGS (*rbcL*, *atpB*) |
|  | A | 11 | 29970 | 29980 | IGS (*rbcL*, *atpB*) |
|  | A | 9 | 33358 | 33366 | IGS (*trnV-UAC*, *ndhC*) |
|  | A | 11 | 34936 | 34946 | IGS (*ndhC*, *ndhK*) |
|  | A | 9 | 36341 | 36349 | IGS (*ndhJ*, *trnF-GAA*) |
|  | A | 14 | 36753 | 36766 | IGS (*ndhJ*, *trnF-GAA*) |
|  | A | 10 | 37123 | 37132 | IGS (*trnF-GAA*, *trnL-UAA*) |
|  | A | 10 | 37616 | 37625 | *trnL-UAA* (intron) |
|  | A | 9 | 41561 | 41569 | *ycf3* (intron) |
|  | A | 10 | 42062 | 42071 | *ycf3* (intron) |
|  | A | 9 | 48118 | 48126 | IGS (*trnfM-CAU*, *trnG-UCC*) |
|  | A | 10 | 48801 | 48810 | IGS (*trnG-UCC*, *psbZ*) |
|  | A | 9 | 49151 | 49159 | IGS (*psbZ*, *trns-UGA*) |
|  | A | 9 | 53674 | 53682 | IGS (*psbD*, *trnT-GGU*) |
|  | A | 11 | 54288 | 54298 | IGS (*trnY-GUA*, *trnD-GUC*) |
|  | A | 9 | 57602 | 57610 | IGS (*petN*, *trnC-GCA*) |
|  | A | 9 | 58357 | 58365 | IGS (*trnC-GCA*, *rpoB*) |
|  | A | 9 | 58621 | 58629 | IGS (*trnC-GCA*, *rpoB*) |
|  | A | 9 | 58638 | 58646 | IGS (*trnC-GCA*, *rpoB*) |
|  | A | 12 | 59747 | 59758 | *rpoB* |
|  | A | 11 | 63337 | 63347 | *rpoC1* (intron) |
|  | A | 11 | 65049 | 65059 | *rpoC1* |
|  | A | 14 | 67462 | 67475 | *rpoC2* |
|  | A | 10 | 69803 | 69812 | IGS (*rpoC2*, *rps2*) |
|  | A | 9 | 72785 | 72793 | IGS (*atpH*, *atpF*) |
|  | A | 9 | 73006 | 73014 | IGS (*atpH*, *atpF*) |
|  | A | 12 | 73178 | 73189 | IGS (*atpH*, *atpF*) |
|  | A | 9 | 73745 | 73753 | *atpF* (intron) |
|  | A | 9 | 74556 | 74564 | *atpF**atpA* |
|  | A | 10 | 76323 | 76332 | IGS (*atpA*, *trnR-UCU*) |
|  | A | 9 | 76462 | 76470 | IGS (*trnR-UCU*, *trnG-TCC*) |
|  | A | 10 | 77188 | 77197 | *trnG-TCC* (intron) |
|  | A | 15 | 77482 | 77496 | IGS (*trnG-TCC*, *trnS-GCU*) |
|  | A | 9 | 77740 | 77748 | IGS (*trnG-TCC*, *trnS-GCU*) |
|  | A | 12 | 77941 | 77952 | IGS (*trnG-TCC*, *trnS-GCU*) |
|  | A | 11 | 84239 | 84249 | IGS (*psbA*, *trnH-GUG*) |
|  | A | 9 | 90395 | 90403 | *ycf2* |
|  | A | 9 | 108472 | 108480 | *cp005* |
|  | A | 10 | 108783 | 108792 | IGS (*rRNA5*, *trnR-ACG*) |
|  | A | 12 | 114231 | 114242 | IGS (*ndhF*, *trnL-UAG*) |
|  | A | 9 | 116061 | 116069 | IGS (*ccsA*, *ndhD*) |
|  | A | 9 | 117976 | 117984 | IGS (*psaC*, *ndhE*) |
|  | A | 9 | 118618 | 118626 | IGS (*ndhE*, *ndhG*) |
|  | A | 10 | 119607 | 119616 | IGS (*ndhG*, *ndhI*) |
|  | A | 9 | 121341 | 121349 | *ndhA* (intron) |
|  | A | 9 | 121889 | 121897 | *ndhA* |
|  | A | 12 | 123767 | 123778 | IGS (*ndhH*, *rps15*) |
|  | A | 10 | 130885 | 130894 | IGS (*trnN-GUU*, *trnR-ACG*) |
|  | A | 9 | 136339 | 136347 | *trnI-GAU* (intron) |
|  | A | 10 | 140377 | 140386 | IGS (*trnV-GAC*, *rps12*) |
|  | A | 10 | 142094 | 142103 | IGS (*rps7*, *ndhB*) |
|  | A | 16 | 155096 | 155111 | IGS (*rpl2*, *rps19*) |
|  | A | 9 | 155142 | 155150 | *rps19* |
|  | C | 11 | 17477 | 17487 | IGS (*rpl33*, *psaJ*) |
|  | C | 9 | 50614 | 50622 | *psbC* |
|  | C | 9 | 135123 | 135131 | *trnA-UGC* (intron) |
|  | G | 9 | 104963 | 104971 | *trnA-UGC* (intron) |
|  | G | 9 | 121898 | 121906 | *ndhA* |
| Dimer | AT | 5 | 16736 | 16745 | IGS (*rps18*, *rpl33*) |
|  | TA | 5 | 17696 | 17705 | IGS (*psaJ*, *trnP-UGG*) |
|  | TA | 5 | 18233 | 18252 | IGS (*trnP-UGG*, *trnw-CCA*) |
|  | AT | 6 | 21717 | 21728 | IGS (*psbJ*, *petA*) |
|  | TA | 5 | 49296 | 49310 | IGS (*psbZ*, *trns-UGA*) |
|  | AT | 5 | 49331 | 49339 | IGS (*psbZ*, *trns-UGA*) |
|  | AT | 5 | 66099 | 66108 | *rpoC2* |
|  | AT | 6 | 76302 | 76313 | IGS (*atpA*, *trnR-UCU*) |
|  | AT | 8 | 77762 | 77777 | IGS (*trnG-TCC*, *trnS-GCU*) |
|  | AT | 9 | 121585 | 121602 | *ndhA* (intron) |
| Tetramer | AGAA | 3 | 9506 | 9517 | IGS (*petB*, *psbH*) |
|  | TTTA | 3 | 19422 | 19433 | IGS (*petL*, *psbE*) |
|  | TAGA | 3 | 42858 | 42869 | IGS (*ycf3*, *psaA*) |
|  | TTTG | 3 | 55545 | 55555 | IGS (*trnD-GUC*, *psbM*) |
|  | TTTC | 3 | 70737 | 70748 | IGS (*rps2*, *atpI*) |
|  | TTAA | 3 | 76245 | 76256 | IGS (*atpA*, *trnR-UCU*) |
|  | TTCA | 3 | 82934 | 82945 | IGS (*trnK-UUU*, *matK*) |
|  | ATTA | 3 | 109229 | 109240 | IGS (*trnR-ACG*, *trnN-GUU*) |
|  | AATA | 3 | 116272 | 116283 | *ndhD* |
|  | CATT | 3 | 126136 | 126147 | *ycf1* |
|  | TTAA | 3 | 130853 | 130864 | IGS (*trnN-GUU*, *trnR-ACG*) |
| Pentamer | TTCTA | 3 | 38148 | 38162 | IGS (*trnL-UAA*, *trnL-UGU*) |