**APPENDIX 1.** Characteristics of 202 nuclear microsatellites markers designed for *Stizophyllum riparium* including locus name, repeat motif, primer sequences (F: Forward and R: Reverse), estimated annealing temperature (*Ta*), fragment size (FS) in base pairs (bp), and GenBank accession numbers.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Locus*** | **Repeat**  **Motif** | **Primer Sequences (5'-3')** | ***T*a (°C)** | **FS (bp)** | **GenBank accession** |
| *stiz46* | (GT)14 | F: GCGATACGAGAGAGAAAACT | 55.05 | 150 | MK435826 |
|  |  | R: TCCTCTTAACCTAGAAAACTCC | 54.57 |  |  |
| *stiz48* | (GT)15 | F: ACATCATGGGCTGGATCTA | 55.09 | 156 | MK435827 |
|  |  | R: TGAACTCCGTTGTACTTCTC | 54.78 |  |  |
| *stiz50* | (GT)16 | F: GCCTAAAACCCAACAAAC | 51.82 | 124 | MK435828 |
|  |  | R: TGACAATTCAACTACAGAGG | 52.55 |  |  |
| *stiz51* | (GT)17 | F: GATTATGGGCAATTAATCGC | 52.85 | 132 | MK435829 |
|  |  | R: GTGTTTTCAGGTTCTCTCTC | 53.59 |  |  |
| *stiz52* | (GT)15 | F: AGTTGGGTTCACAGTTTGTT | 55.6 | 144 | MK435830 |
|  |  | R: ACTCCGTTGTACTTCTCAAGA | 56.35 |  |  |
| *stiz54* | (GT)11(GA)10(GT)11(GA)7 | F: GGCTCCCTCACGCATATACA | 59.32 | 166 | MK435831 |
|  |  | R: AGACGCTCGCTCACTGAAAT | 59.76 |  |  |
| *stiz55* | (GT)13 | F: CCTGCTCTTTCTACTACAACA | 54.99 | 158 | MK435832 |
|  |  | R: CTCGTGCAGTGATCGTAG | 55.03 |  |  |
| *stiz56* | (GT)20(GA)12 | F: TCAGTTCATGTTTGCCTGTG | 56.55 | 121 | MK435833 |
|  |  | R: CAACCCCTTTGCTTCAACT | 55.91 |  |  |
| *stiz58* | (GT)15 | F: TCTACAATTGCAGGTACAG | 51.93 | 150 | MK435834 |
|  |  | R: GATGATGAGGAAATAAGGGG | 52.78 |  |  |
| *stiz60* | (AG)12 | F: AACTCAACTCAACTGGCCCA | 59.45 | 139 | MK435835 |
|  |  | R: TGCATGGGGTTAGACGAATAGT | 59.23 |  |  |
| *stiz61* | (AG)11 | F: TCATGGTACTTCTTGTCTGA | 53.31 | 150 | MK435836 |
|  |  | R: TATGATTTAGCTGCCCCTC | 53.96 |  |  |
| *stiz62* | (AG)11 | F: GCATAAAGTAGCAAAGGAAAGG | 55.69 | 132 | MK435837 |
|  |  | R: TATCCACCACTCGTTATCCC | 56.12 |  |  |
| *stiz67* | (AG)13 | F: CCGTGCAATGTTCACTGA | 55.61 | 156 | MK435838 |
|  |  | R: TGGAGCAATGGTTTCTTTCT | 55.14 |  |  |
| *stiz69* | (AG)13 | F: TTACAATGAGTGGAGTGTC | 51.85 | 130 | MK435839 |
|  |  | R: GCTACGAAGATAGGATTTTC | 51.22 |  |  |
| *stiz70* | (AG)18 | F: TTTGTGTGAAATCGGAGCA | 55.35 | 104 | MK435840 |
|  |  | R: CTTTTATTTCTTTCCCCTCCGT | 56.33 |  |  |
| *stiz72* | (AG)15 | F: CAATAAGTTGCCATGATACACCC | 57.81 | 154 | MK435841 |
|  |  | R: GACACATTCCTCCCCAACC | 57.73 |  |  |
| *stiz73* | (AG)17 | F: GAGAAAGCAAGAAAAGATGGC | 55.76 | 105 | MK435842 |
|  |  | R: CTTGACAATCTCACACATTCTC | 55.14 |  |  |
| *stiz75* | (AG)14 | F: AGAACTTTAGAACACAAGGGG | 55.42 | 104 | MK435843 |
|  |  | R: TCATATTGCACGAGTCAAGG | 55.57 |  |  |
| *stiz76* | (AG)15 | F: TTAGTTGCAATTGGATGGGA | 54.89 | 116 | MK435844 |
|  |  | R: TCGTTGTCTATCTCCCCAC | 55.84 |  |  |
| *stiz80* | (AG)25 | F: GTGAAGATGGACAAAAGAAG | 52.1 | 168 | KP863503 |
|  |  | R: CATATTGTCTCTCCCTGTTG | 53.1 |  |  |
| *stiz85* | (AC)11 | F: TGTGCAACCTTGTCTATG | 52.14 | 104 | MK435845 |
|  |  | R: TGTGCAACCTTGTCTATG | 51.21 |  |  |
| *stiz86* | (AC)15 | F: CCATGTTTCAGAGTCCAGCA | 57.81 | 102 | MK435846 |
|  |  | R: GAAGTCATACTACTGCGCGT | 57.81 |  |  |
| *stiz89* | (AC)10 | F: TGATTCGAATGTGTAGGCCA | 56.93 | 128 | MK435847 |
|  |  | R: ATCCATGCAAGACTGACCAC | 57.88 |  |  |
| *stiz90* | (AC)18 | F: TCTCTTCCTTTCCTCTAAGCTC | 56.65 | 100 | MK435848 |
|  |  | R: GTGCATTTTCACCATTACCTCT | 56.95 |  |  |
| *stiz91* | (AC)17 | F: CTTCATGGAACTCACAATTGCA | 57.49 | 146 | MK435849 |
|  |  | R: TGTGGGGTTTAATGTTTGTTGC | 58.2 |  |  |
| *stiz92* | (AC)15 | F: CGCACACAACACAAGTCA | 56.21 | 157 | MK435850 |
|  |  | R: AGAGAGAGAGATGAAAGCTTTG | 55.57 |  |  |
| *stiz97* | (AC)12 | F: GGATAGCTCTTAAATTCCGATG | 54.52 | 114 | MK435851 |
|  |  | R: GGCAGTATCTTCAAGTCCAA | 55.06 |  |  |
| *stiz98* | (AC)11 | F: GCAATAAATGGTCCCCGGAA | 58.23 | 125 | MK435852 |
|  |  | R: TCATGGACAAAGGCTGCTTT | 58 |  |  |
| *stiz99* | (AC)12 | F: CCTTCCCGTCGTCTCTGTT | 59.03 | 114 | MK435853 |
|  |  | R: AGGAGAGAAAATGGGGAGTAGAA | 58.3 |  |  |
| *stiz100* | (AC)15 | F: TGGATTGTGGTTTTATGCGC | 57.35 | 109 | MK435854 |
|  |  | R: GGGGAATGAATTTGCTTGGT | 56.55 |  |  |
| *stiz101* | (AC)13 | F: TGGGTCTCATGTATCGCTT | 55.81 | 150 | MK435855 |
|  |  | R: GTACAAACCCTCACCATAATCT | 55.52 |  |  |
| *stiz102* | (AC)15 | F: TGGTCAAAAGTGCGAACAAG | 57.16 | 150 | MK435856 |
|  |  | R: AAGTTGAATCTTCGAGGGCT | 56.84 |  |  |
| *stiz105* | (AC)15 | F: CAACGAGTTTCAGAGGCACA | 58.42 | 129 | MK435857 |
|  |  | R: GAAATGGGTGGCAGTGTGTA | 58.1 |  |  |
| *stiz108* | (TC)15(AC)8(TC)12 | F: CTCTTGCATAATACCAGCAA | 53.36 | 158 | MK435858 |
|  |  | R: ACACCGAGATAGAGAGAGA | 53.48 |  |  |
| *stiz109* | (TC)11 | F: TCTGGCATATTTTGGTTCTGGT | 57.95 | 106 | MK435859 |
|  |  | R: TATGTGGGGCGGAAAGATCT | 58.49 |  |  |
| *stiz113* | (TC)14 | F: TTCTTACGCAGGCATATACG | 55.47 | 105 | MK435860 |
|  |  | R: AACCAAAGGAAACCAGAGAA | 54.66 |  |  |
| *stiz114* | (TC)17 | F: GCAGCATAGCATACCGTACG | 58.94 | 110 | MK435861 |
|  |  | R: GGACTTGTAATAGTTCATGCGCT | 59.13 |  |  |
| *stiz115* | (TC)13 | F: GCTGTCCCAAATTTCTAACA | 53.78 | 161 | MK435862 |
|  |  | R: ATTGCACTCATACACGCA | 54.61 |  |  |
| *stiz117* | (TC)17 | F: CTTTCGGTGGGCCTATCGAT | 59.61 | 108 | MK435863 |
|  |  | R: GGCGAGCGAGTGAGAGAA | 59.12 |  |  |
| *stiz119* | (TC)16 | F: CTTTGCTCAGGAAAGGTGTGA | 58.42 | 116 | MK435864 |
|  |  | R: AGTACTTAAATCGAGCGAGCG | 58.28 |  |  |
| *stiz120* | (CT)15 | F: TCTGATTTTCTTTGGTGTGTCG | 57.19 | 102 | MK435865 |
|  |  | R: TTCCACAAGCAAAGAGAGATTC | 56.63 |  |  |
| *stiz121* | (TC)14 | F: CCCCAACTCAAACTTCCTCA | 57.34 | 100 | MK435866 |
|  |  | R: ACCAAAGGAAACCAGAGAATGA | 57.55 |  |  |
| *stiz122* | (TC)21 | F: ACAAACTCCACTTCACCCCA | 59.08 | 122 | MK435867 |
|  |  | R: TCCGAGCTAAATCTTTTGTGCA | 58.59 |  |  |
| *stiz127* | (AGG)8 | F: GGAGTCAAATTCAGCGGAGGA | 60.07 | 105 | MK435868 |
|  |  | R: CACCAACCCCTCCACCAC | 59.88 |  |  |
| *stiz128* | (AGG)8 | F: GGCACCCAGTTCATCCCAT | 59.69 | 108 | MK435869 |
|  |  | R: CACTTGCAAGGCCACTGAG | 59.05 |  |  |
| *stiz131* | (CTT)8 | F: TCCTCAATTTCCTCCTACTCCTC | 58.71 | 155 | MK435870 |
|  |  | R: AGGTTGTGTTTCTTGACGGC | 58.98 |  |  |
| *stiz134* | (CTT)12 | F: GAGATGTTCTTGAGATTTGCCTC | 57.52 | 104 | MK435871 |
|  |  | R: GGAGGAGGAGGAGGAGGA | 58.22 |  |  |
| *stiz140* | (CTT)10 | F: ATCGCAACAACACAACACA | 56.29 | 116 | MK435872 |
|  |  | R: ACACAACCACACACCATAC | 55.34 |  |  |
| *stiz143* | (ACA)9 | F: TGACTACCGCCACTACTACC | 58.24 | 118 | MK435873 |
|  |  | R: AGCATGTTTACAGTGGTGGTG | 58.77 |  |  |
| *stiz144* | (ACA)8 | F: TTGGTTCCGAGAAAACACGA | 57.69 | 105 | MK435874 |
|  |  | R: CGTGTTGTTCATGTCATGCT | 57.02 |  |  |
| *stiz148* | (AGA)8 | F: TCTTGGCTGGCTTATGTACAA | 57.29 | 101 | MK435875 |
|  |  | R: ACTGCTTCTTCCTCCACTTTC | 57.87 |  |  |
| *stiz150* | (AGA)10 | F: CCAATGCTGTATTCCTTCTCTT | 56.13 | 100 | MK435876 |
|  |  | R: TCCCTTTTGTGGCTTCTTTG | 56.43 |  |  |
| *stiz151* | (AGA)9 | F: TAGTTCCTAGCCTCCTGAAC | 55.66 | 100 | MK435877 |
|  |  | R: ATTACCTTTGTCACTAACTCCC | 55.45 |  |  |
| *stiz152* | (AGA)10 | F: GACATGAGGCAGAAAACCGA | 58.19 | 115 | MK435878 |
|  |  | R: GCATAGCGGCTGTATGTTGT | 58.7 |  |  |
| *stiz155* | (CTC)8 | F: TCCTACTACTGCTCATATTGCT | 56.16 | 136 | MK435879 |
|  |  | R: GAGTAGCAGGAGGAGCAG | 56.11 |  |  |
| *stiz157* | (CGC)8 | F: CCTTCCTCCTCGTCCTCCT | 59.69 | 100 | MK435880 |
|  |  | R: CGGAGGTGGTGGAAGAGG | 59.02 |  |  |
| *stiz158* | (CGC)8 | F: GCCGCTAACACAACCATCG | 59.58 | 113 | MK435881 |
|  |  | R: CTCGGGTCAACTCGGGAAG | 59.78 |  |  |
| *stiz159* | (TGT)8 | F: TGTTGTTGTTGTCATCGTCGTC | 59.72 | 107 | MK435882 |
|  |  | R: TTGAATGAATTGGCGGGCTC | 59.18 |  |  |
| *stiz162* | (ACT)9 | F: ACTACATGACCACTACTACA | 52.42 | 110 | MK435883 |
|  |  | R: GGTGTAGCGATAATTATCCC | 53.06 |  |  |
| *stiz163* | (ATG)8 | F: ATGGACGGCTGAGATGCTT | 59.09 | 110 | MK435884 |
|  |  | R: GTCTGTCTTTCAACGCTGCA | 59.06 |  |  |
| *stiz164* | (CAT)8 | F: TCTTGTTTAGCATCACCAGCTG | 58.92 | 105 | MK435885 |
|  |  | R: GGAGGAGGAGATCAGGAAGC | 58.95 |  |  |
| *stiz165* | (CAT)10 | F: CTGCCTCCGAAGACTCTCAA | 59.11 | 114 | MK435886 |
|  |  | R: CTGTTGCTCTAGTACTCTTCCCT | 58.98 |  |  |
| *stiz166* | (AAAAG)4 | F: AGAGGCATCACTTGGAGTATGA | 58.62 | 127 | MK435887 |
|  |  | R: GGGAATAAAGGAGGGAGTAGGT | 58.33 |  |  |
| *stiz167* | (AAAG)4 | F: TGAGCTACAAACCCTTTACCA | 56.85 | 101 | MK435888 |
|  |  | R: AGTGTATGTAGTGTCTGTGAGA | 55.99 |  |  |
| *stiz168* | (AAAG)4 | F: GAATGACATGGCTGCTCA | 54.99 | 111 | MK435889 |
|  |  | R: CGAAGCTTAGAGAGTGGAG | 54.46 |  |  |
| *stiz169* | (AAAG)5 | F: GTGTATGCATTTTGGAGTGT | 54.18 | 101 | MK435890 |
|  |  | R: CCAAAGCAAGAAGAAAGGAG | 54.49 |  |  |
| *stiz170* | (AAAG)5 | F: TACTTGGGCACTACTTTGT | 53.55 | 119 | MK435891 |
|  |  | R: GGCAAGCTATCAACTTCTTT | 53.87 |  |  |
| *stiz171* | (AAAG)4 | F: GAATGACATGGCTGCTCA | 54.99 | 111 | MK435892 |
|  |  | R: CGAAGCTTAGAGAGTGGAG | 54.46 |  |  |
| *stiz172* | (AAAG)4 | F: CCTTAAGCTCTTTCTATTGTCC | 54.28 | 132 | MK435893 |
|  |  | R: GAATTTGGTGTTATTGCGGA | 54.57 |  |  |
| *stiz173* | (AAAG)5 | F: CCCCTGTCAGAATATCGGGT | 58.58 | 134 | MK435894 |
|  |  | R: CAACACCCTCAGTTTCAGTCT | 57.8 |  |  |
| *stiz174* | (AAAG)6 | F: GTGCATGAGTTTCAATGAAGCA | 58.1 | 106 | MK435895 |
|  |  | R: GCCACAAGTGTCCTCCATTT | 58.38 |  |  |
| *stiz175* | (AAAG)4 | F: TGCAAACCAGCCATGAACAA | 58.88 | 104 | MK435896 |
|  |  | R: GTTCATCAGTCACTTTGTTGACC | 58.15 |  |  |
| *stiz176* | (AAAG)4 | F: GACATGGCTGCTCAAGAA | 54.92 | 107 | MK435897 |
|  |  | R: CGAAGCTTAGAGAGTGGAG | 54.46 |  |  |
| *stiz177* | (AAAG)4 | F: AAGTGGAAGTGGAAGATAAAGG | 55.71 | 113 | MK435898 |
|  |  | R: CGGGTTATTAACATTTTGCACC | 56.56 |  |  |
| *stiz178* | (AAAG)4 | F: AGCTGCCTGATACACTCCAT | 58.5 | 100 | MK435899 |
|  |  | R: TTAGGACTAGTTGAAGGTTCGCT | 59.17 |  |  |
| *stiz181* | (AAAT)4 | F: CGGAGTTTCAGTCGTAGG | 54.5 | 117 | MK435900 |
|  |  | R: GTAGTCACGACAAGCTCTAG | 55.08 |  |  |
| *stiz182* | (AAAT)4 | F: AAATAGAAACATCACGGCGGT | 58.29 | 103 | MK435901 |
|  |  | R: CCGCCGCGATATTTTCTGTAT | 58.93 |  |  |
| *stiz183* | (AAAT)5 | F: ATAGAGTTTGTTAAGGGCAC | 52.88 | 102 | MK435902 |
|  |  | R: AAGTTCTTCTGCAATGTCC | 53.15 |  |  |
| *stiz184* | (AAAT)4 | F: GCCCAATTAGCCCATCAAACT | 58.89 | 161 | MK435903 |
|  |  | R: GGAGAAGAAGTCCGGGAGTC | 59.19 |  |  |
| *stiz185* | (AAAT)4 | F: TCTATCCTAACCATGCATCA | 53.18 | 135 | MK435904 |
|  |  | R: GCACTAATGGCTCTAAGAG | 52 |  |  |
| *stiz186* | (AAAT)4 | F: TCACGATCGAAAATCCATCAAC | 57.14 | 113 | MK435905 |
|  |  | R: GGATGAAGGAAAGAGCTATGAGA | 57.46 |  |  |
| *stiz188* | (AAAC)6 | F: CGAAACCACAACCTGCAACT | 59.26 | 113 | MK435906 |
|  |  | R: TGAGTATGAACCTGGGCGTT | 59.02 |  |  |
| *stiz189* | (AATG)5 | F: GAAAGAGGGAAATAAGAGAGAG | 53.39 | 108 | MK435907 |
|  |  | R: GTGTAATGGTTGATGCTGG | 54.06 |  |  |
| *stiz190* | (AACG)4 | F: GGAGTGATAAATGAATTCCTCC | 54.31 | 125 | MK435908 |
|  |  | R: GGGAATCGGTATGTGTGT | 53.93 |  |  |
| *stiz191* | (AACG)4 | F: GCAGGAGTGATAAATGAATTCC | 55.22 | 127 | MK435909 |
|  |  | R: GGGAATCGGATGTGTGTAAG | 55.93 |  |  |
| *stiz192* | (AACG)5 | F: AAATGAATTCCTCCTCTTGG | 52.8 | 114 | MK435910 |
|  |  | R: GGTGTGTGTGTAAGTTTGTA | 53.41 |  |  |
| *stiz193* | (AACG)6 | F: TATCAAGGTGAACAGACAGACG | 57.83 | 100 | MK435911 |
|  |  | R: GGGAATCGGTATGTGTGTAAGT | 57.87 |  |  |
| *stiz194* | (AACG)4 | F: GGAATGCAGGAGTGATAAATGA | 56.21 | 171 | MK435912 |
|  |  | R: TCTGAAATATTTGCCCCGGA | 56.89 |  |  |
| *stiz195* | (AACG)4 | F: GAATGAATTCCTCCTCTTGG | 53.34 | 111 | MK435913 |
|  |  | R: CGGTATGTGTGTAAGTTTGT | 53.59 |  |  |
| *stiz196* | (AACG)4 | F: GCAGGAGTGATAAATGAATTCC | 55.22 | 128 | MK435914 |
|  |  | R: GGGAATCGGTATGTGTGTAAG | 56.14 |  |  |
| *stiz197* | (AATC)4 | F: CGCATATCGTTAGCTAATG | 51.43 | 115 | MK435915 |
|  |  | R: TGACCTATATTTGAGTGTGG | 51.98 |  |  |
| *stiz198* | (AATC)4 | F: CACAATCGTTCGAACACT | 53.04 | 141 | MK435916 |
|  |  | R: CACATCATACGTGGTAATTG | 52.11 |  |  |
| *stiz199* | (AATC)4 | F: CGATATAAATCCTTATCCCTCC | 53.1 | 103 | MK435917 |
|  |  | R: TAAGATGTGACATGTGGTTG | 53.23 |  |  |
| *stiz200* | (AATC)4 | F: CGGTAGCTAATGAATGACTG | 53.64 | 110 | MK435918 |
|  |  | R: GATGACCTATATTTGAGTGTGG | 54.08 |  |  |
| *stiz201* | (AATC)4 | F: TTGCTCTTGGGTAAACATTCAC | 57.15 | 100 | MK435919 |
|  |  | R: CGCCCCTATGCCTATGAAC | 57.77 |  |  |
| *stiz202* | (AGCT)4 | F: TTAGTGGAAAGCAGAGATG | 51.91 | 109 | MK435920 |
|  |  | R: CTATAAATACGCAGGCTAAG | 51 |  |  |
| *stiz203* | (AGCT)4 | F: TGTCCCGAGCTAAATTTGAGT | 57.3 | 136 | MK435921 |
|  |  | R: TGGAGGAAAGTGAGGGGTC | 58.28 |  |  |
| *stiz204* | (GGAC)4 | F: CATTTTCGTTTGTCCGTCCG | 58.05 | 109 | MK435922 |
|  |  | R: AGCTCCCTACATTCATTGAAGT | 57.15 |  |  |
| *stiz205* | (GGAC)4 | F: ACTGGGTGGCGGACATAAC | 59.7 | 114 | MK435923 |
|  |  | R: TTATGTCCGTGTCCGTCCG | 59.49 |  |  |
| *stiz206* | (GGAT)4…(GGAT)3 | F: TCCATCCATATATCCGCATG | 54.54 | 112 | MK435924 |
|  |  | R: TCGAAACGCATATATCGGG | 55 |  |  |
| *stiz208* | (GTTT)4…(CTTTT)4 | F: TGGCTTTCTTGTCTTAGGTGCA | 60.16 | 103 | MK435925 |
|  |  | R: AGAGAACGCCCCAACCCA | 60.85 |  |  |
| *stiz209* | (GTTT)4 | F: ACTTGGATTCTCTGTGCTCT | 56.16 | 140 | MK435926 |
|  |  | R: CAGTTTGTGCTGTTGGGT | 55.7 |  |  |
| *stiz210* | (GTTT)4 | F: TGGAGATAGGATTTTCAAGGGAC | 57.63 | 107 | MK435927 |
|  |  | R: CCCTCCATTTTCACCCTTGA | 57.4 |  |  |
| *stiz212* | (CCCT)4 | F: TCACAATCCTCTCTCTCTCGTC | 58.72 | 103 | MK435928 |
|  |  | R: GACGTGCAAGGTTCGATCC | 58.92 |  |  |
| *stiz213* | (CCCT)4 | F: TGGAAGTTAGCATTAGGAGGG | 56.79 | 110 | MK435929 |
|  |  | R: CTCAGATTCATATGCACATGGT | 56.29 |  |  |
| *stiz214* | (CCCT)6 | F: TCCAGTGACGTTCAAAATTC | 54.16 | 100 | MK435930 |
|  |  | R: AACTCAACACTGTAAGGAGG | 54.62 |  |  |
| *stiz215* | (CCCT)4 | F: AGCTTGGAGATGGAAGGTTT | 56.72 | 128 | MK435931 |
|  |  | R: TGCTAACCTAGGACAATAAGCT | 56.62 |  |  |
| *stiz216* | (CCCT)4…(TG)14 | F: ACGAGGGCAAGAAACTGAAAG | 58.78 | 108 | MK435932 |
|  |  | R: AGATACTGGAAACCACACACAC | 58.26 |  |  |
| *stiz217* | (CCTT)4 | F: GATTCGGAATTTGAACCATG | 52.92 | 123 | MK435933 |
|  |  | R: GTTCGTGTCGTGTTATCG | 53.76 |  |  |
| *stiz218* | (AGAC)4 | F: CAGCAGCCAAGAACTTTACTG | 57.45 | 101 | MK435934 |
|  |  | R: AGCTTCAAAAGGGTCTGTCC | 57.72 |  |  |
| *stiz220* | (ATAC)5 | F: ACGGTCAATAAACACACACACA | 58.73 | 116 | MK435935 |
|  |  | R: TAGCTCAGGGTGTCGTTGAG | 59.11 |  |  |
| *stiz221* | (ATAC)4 | F: ACGCTTCAATATACACACGGC | 59.07 | 102 | MK435936 |
|  |  | R: TGCACGAATGAATGTATGCTGT | 58.99 |  |  |
| *stiz222* | (ATAC)5 | F: ACGGTAACAATTCTCAGGATAC | 55.64 | 119 | MK435937 |
|  |  | R: ATTGACCTTAGGCCACATTC | 55.39 |  |  |
| *stiz223* | (GAGT)4(GT)14(GA)9 | F: CGTCTTTGACTTTGTTTTCG | 53.79 | 112 | MK435938 |
|  |  | R: TCAGGTTTTCTTCATTCAGC | 53.81 |  |  |
| *stiz224* | (GAGT)4 | F: TCGCGTTTGAGTTATCGATTGA | 58.5 | 114 | MK435939 |
|  |  | R: GCATGTCAATCAATAAGTCCCTG | 57.82 |  |  |
| *stiz225* | (GAGT)4 | F: CTCCACACACACACACACAC | 59.27 | 113 | MK435940 |
|  |  | R: GCACTGAAGCATTTATAGCGC | 58.36 |  |  |
| *stiz226* | (TCCC)7 | F: ACTCTCTTTCTCTCTTTCTCCCT | 57.99 | 113 | MK435941 |
|  |  | R: AGAAATGTTACATGCGGGCA | 58.17 |  |  |
| *stiz227* | (TCCC)4 | F: TGGAAGTTAGCATTAGGAGGG | 56.79 | 110 | MK435942 |
|  |  | R: CTCAGATTCATATGCACATGGT | 56.29 |  |  |
| *stiz228* | (TCCC)6 | F: CTGTATGTTTCCAGTGACGTTCA | 58.94 | 106 | MK435943 |
|  |  | R: TCAACACTGTAAGGAGGGGC | 59.31 |  |  |
| *stiz229* | (CCCT)4 | F: TAAGCTTGGAGATGGAAGG | 53.8 | 111 | MK435944 |
|  |  | R: GCTCATCAATGTTGTCTTGT | 54.2 |  |  |
| *stiz230* | (TCCC)4…(TG)14 | F: CCCCTTGTGTTCGTAATGAA | 55.67 | 154 | MK435945 |
|  |  | R: TGAGCTACACAAATGAGAGGT | 56.66 |  |  |
| *stiz231* | (CCCT)4 | F: AGGTCACAATCCTCTCTCTCTC | 58.37 | 101 | MK435946 |
|  |  | R: GCAAGGTTCGATCCCCATTC | 58.97 |  |  |
| *stiz232* | (CCGT)5 | F: AAACACACTAGCACCGGAGA | 58.95 | 159 | MK435947 |
|  |  | R: CAACTGTTGGCACGAGATCC | 59.2 |  |  |
| *stiz233* | (CCGT)4 | F: GGTCCGTCCGTTAGTGTTTT | 58.13 | 105 | MK435948 |
|  |  | R: ACAACCGAAAATCAATGGCCT | 58.75 |  |  |
| *stiz234* | (CCGT)4 | F: CTGGATGTAGGTTCACACA | 54.09 | 103 | MK435949 |
|  |  | R: ATCATTTCGATCCGTCCG | 54.61 |  |  |
| *stiz235* | (TTTA)4 | F: TCAGAGACATAAGCAGAACT | 53.41 | 129 | MK435950 |
|  |  | R: CAGTGCCAGAATGAGTTAAC | 54.32 |  |  |
| *stiz236* | (TTTA)4 | F: ATCTCGGCCCTCTAAATTGT | 56.3 | 113 | MK435951 |
|  |  | R: CCTCCCATTTCTTACGAAGG | 55.53 |  |  |
| *stiz237* | (TTTA)5 | F: AGGGTTCTTAATTCCCGAGTTC | 57.78 | 103 | MK435952 |
|  |  | R: TGATGGGGAGTACAAGACGA | 57.77 |  |  |
| *stiz238* | (TTTA)4 | F: GTGGACCATTTTGAATTTGCGT | 58.61 | 119 | MK435953 |
|  |  | R: GGCACAGGGAAAATGACTAACA | 58.85 |  |  |
| *stiz239* | (ATTT)5 | F: TACACAATTAGCAACTTGGC | 54.2 | 110 | MK435954 |
|  |  | R: AAACATAGGTAGCTAGGTGG | 53.83 |  |  |
| *stiz241* | (TTTA)4 | F: CTTGAGCCAGCTTTCAAAT | 53.84 | 100 | MK435955 |
|  |  | R: AATGTGAATCTTCCAGGTCT | 53.92 |  |  |
| *stiz242* | (TTTA)6 | F: ACTGATCCTTTGACTGAGAACT | 56.76 | 126 | MK435956 |
|  |  | R: CTCCTGTCAAGCTCAATCGT | 57.62 |  |  |
| *stiz243* | (TTTA)4 | F: AAATTAGTAAGGAGACCAGC | 52.27 | 155 | MK435957 |
|  |  | R: CATTGAGAAAGAGGTGATTG | 51.86 |  |  |
| *stiz244* | (TTTA)4…(AAAT)4 | F: CATCGAAAATGCTGAAAGAC | 53.29 | 108 | MK435958 |
|  |  | R: TGTGAAAGTTGAGGAGACAT | 54.2 |  |  |
| *stiz245* | (TTGA)4 | F: GTGTAGGTTCGGCGTTGATT | 58.56 | 123 | MK435959 |
|  |  | R: GTGTAGGTTCGGCGTTGATT | 58.93 |  |  |
| *stiz246* | (TTGA)4 | F: CGCATCTGAGCTACCTATTGAT | 57.81 | 151 | MK435960 |
|  |  | R: AGTCCCTGTCAATGAATCCCT | 58.43 |  |  |
| *stiz247* | (TTGA)4 | F: GCATCCGAGCTACTTATTGA | 55.06 | 132 | MK435961 |
|  |  | R: AAGTCCCTGTCAATGAATCC | 55.02 |  |  |
| *stiz249* | (TTGA)4 | F: TCTGCCCCTATGCCTATGAA | 57.88 | 122 | MK435962 |
|  |  | R: AGTCCTTGATTCACATGCTCA | 57.29 |  |  |
| *stiz250* | (TTGA)4 | F: GAGTGAGTGTTAATCGAATGAG | 54.72 | 111 | MK435963 |
|  |  | R: AAGTCCCTGTCAATGCATTT | 55.5 |  |  |
| *stiz251* | (TTGA)4 | F: GGCTGCGTTGATTTTATCCG | 57.89 | 166 | MK435964 |
|  |  | R: AGTCCCTGTCAATGAATCCCT | 58.43 |  |  |
| *stiz252* | (TTGA)4 | F: ATCGGTTGGTCCCCTGAAG | 59.01 | 111 | MK435965 |
|  |  | R: GTGACCACTCAGAGGGAACA | 58.95 |  |  |
| *stiz253* | (TTGA)4 | F: GAACGCCACATTGCACGT | 59.36 | 116 | MK435966 |
|  |  | R: GACATGCCGTAATGCCCAAC | 56.9 |  |  |
| *stiz255* | (TTGA)4 | F: ATCGAACACCACATTGCACG | 59.48 | 109 | MK435967 |
|  |  | R: CCGTAATGCCCAACCAAGAC | 59.19 |  |  |
| *stiz256* | (TTGA)4 | F: AAATCGCATCTGAGCTACCT | 56.71 | 128 | MK435968 |
|  |  | R: AGTCCCTGTCAATGAATCCC | 56.89 |  |  |
| *stiz257* | (TTGA)4 | F: GAGTGAGTGTTAATCGAATG | 51.78 | 117 | MK435969 |
|  |  | R: GTCAATGAATCCCTGATCAT | 52.69 |  |  |
| *stiz258* | (TTGA)4 | F: GAGATCTCGATTGAACGCC | 55.93 | 100 | MK435970 |
|  |  | R: ATCCTCTAAGAAGTTCGTGGG | 56.83 |  |  |
| *stiz259* | (TTGA)4 | F: TATCCGCCCCTATGCCTATG | 58.5 | 102 | MK435971 |
|  |  | R: GCTCTTGGGTAAACATTCACTCA | 58.93 |  |  |
| *stiz260* | (TTGA)4 | F: GAATGAAGGAGTGTGTGAACC | 56.82 | 100 | MK435972 |
|  |  | R: AGAATGCATGTCGATCGTTAAG | 56.96 |  |  |
| *stiz261* | (TTGA)4 | F: AGGTTCGGCGTTGATTGTAT | 57.6 | 120 | MK435973 |
|  |  | R: CTCTCTTGGGTAAACATTCACTC | 56.88 |  |  |
| *stiz262* | (TTGA)4 | F: GATCTCGATTGAACGCCACA | 58.36 | 120 | MK435974 |
|  |  | R: CCGTAATGCCCAACCAAGAC | 59.19 |  |  |
| *stiz263* | (TTGA)4 | F: GAGATCTCGATTGAACGCC | 55.93 | 102 | MK435975 |
|  |  | R: ACCCTCTAAGAAGTTCGTGG | 56.58 |  |  |
| *stiz264* | (TTCA)4 | F: CACTCTCAACACACAGAC | 52.61 | 101 | MK435976 |
|  |  | R: CTGTTCCACTGATTATGAGA | 52.01 |  |  |
| *stiz265* | (TGTA)7 | F: CCAGCAGAGAACATAAGTA | 51.29 | 117 | MK435977 |
|  |  | R: GAGAGGGATTTAAGTCTTTC | 50.56 |  |  |
| *stiz266* | (TATG)8 | F: CGAACCATGTTTGTCGGGG | 59.13 | 113 | MK435978 |
|  |  | R: AATGCGGGCGATGATTGTAC | 59.06 |  |  |
| *stiz267* | (TATG)4 | F: TGTATCCACTCACAAGATTG | 52.62 | 109 | MK435979 |
|  |  | R: CACCAACACACACACATA | 52.41 |  |  |
| *stiz268* | (TATG)6 | F: ATCTTGCTCCAATTCTTCAC | 53.57 | 109 | MK435980 |
|  |  | R: GATGATGTCAAATGCATGC | 53.03 |  |  |
| *stiz269* | (TATG)4 | F: GTGTCGCCTCATATTTAGTCTC | 56.44 | 125 | MK435981 |
|  |  | R: GTCCAAAACTCGGTCACAT | 55.45 |  |  |
| *stiz270* | (TATC)4 | F: GTTGTCAGCTAATGTCAGTA | 52.69 | 128 | MK435982 |
|  |  | R: CATGCCGCCATCTATATG | 52.79 |  |  |
| *stiz271* | (TCTG)4 | F: AAGGCCAGTGAGATTGAGGT | 58.63 | 110 | MK435983 |
|  |  | R: TATCAGGGGAAGAAGGCCTG | 58.49 |  |  |
| *stiz272* | (TCTG)6 | F: CAATCAAATGTCTCTGTCTC | 51.62 | 111 | MK435984 |
|  |  | R: CTGACCAGTCTTGTTCTAAA | 52.48 |  |  |
| *stiz273* | (TCTG)5 | F: TCATCGGACTTTCTGTTCTGT | 56.97 | 118 | MK435985 |
|  |  | R: GTGTAAAATTGTCAGTGCTGTC | 56.2 |  |  |
| *stiz274* | (AAAAG)4 | F: TGAGTGGGAGATTTGGAAGGT | 58.65 | 104 | MK435986 |
|  |  | R: CCACTCTTTACGATGCCTTGT | 58.3 |  |  |
| *stiz275* | (AAAAG)4 | F: CCAATTTCCACAATAGCACA | 54.15 | 141 | MK435987 |
|  |  | R: CGACTTCCAGATAGTTTTGC | 54.44 |  |  |
| *stiz276* | (AAAAG)4 | F: GTGGATTATCTACTGGGAAA | 51.63 | 115 | MK435988 |
|  |  | R: GGCTTATGATTTGGGACA | 51.77 |  |  |
| *stiz277* | (AAAAG)4 | F: AAGTCGTCTTTCATTACCAG | 52.97 | 100 | MK435989 |
|  |  | R: CATTGCATGGGGAAGATT | 52.48 |  |  |
| *stiz278* | (AAAAT)4 | F: TGATGCTTCTGTAGGCAC | 54.28 | 113 | MK435990 |
|  |  | R: TCCGCCTGACAAATTAAGAT | 54.74 |  |  |
| *stiz279* | (AAAAT)4 | F: GTATTGACATTTCCACTCCA | 52.89 | 152 | MK435991 |
|  |  | R: TGAAAATGGAGAGAGGGG | 52.97 |  |  |
| *stiz280* | (AAAGG)4 | F: TCGAGGAAGAGGAGATGAAC | 56.08 | 115 | MK435992 |
|  |  | R: TGGATAGCTGACTTTCTTCCT | 56.07 |  |  |
| *stiz282* | (GGGTT)4 | F: CCATTTTGGCTTTGGGTCCA | 58.94 | 151 | MK435993 |
|  |  | R: CCGATCTGTGTCGGTTCAG | 57.96 |  |  |
| *stiz283* | (GGGTT)5 | F: AGGTTGGGTTAGGGTTGGAC | 59.22 | 110 | MK435994 |
|  |  | R: GGTGGGTTCGTGTCAGGTTA | 59.61 |  |  |
| *stiz284* | (AGAAG)4 | F: CCCACTTTCTACTCATGTTGCC | 59.25 | 113 | MK435995 |
|  |  | R: TCACACAAACTTGCTCTTGGT | 58.28 |  |  |
| *stiz285* | (AGAAG)4 | F: AGTGTTCGATTAGGAAACCC | 55.07 | 123 | MK435996 |
|  |  | R: CAACAAACTTGCTCTTGGTT | 54.91 |  |  |
| *stiz286* | (AGAAG)4 | F: CTACTCATGTTGCCTTTAGT | 52.62 | 106 | MK435997 |
|  |  | R: CTCACACAAACTTGCTCTT | 53.43 |  |  |
| *stiz288* | (TTTTA)4 | F: ACACTCTCATAGGAAATTCGGAC | 57.99 | 150 | MK435998 |
|  |  | R: AAACCAAGACCCACCAAACA | 57.76 |  |  |
| *stiz289* | (TTTTA)4 | F: GGTCGTCGCTACTTTGATGA | 57.73 | 106 | MK435999 |
|  |  | R: GGAATCCCATGTTGATCTCTTCT | 57.95 |  |  |
| *stiz290* | (TTTTC)4 | F: CTATGAACCCTAACTCTTTG | 50.57 | 124 | MK436000 |
|  |  | R: CGTTCATACACAGTTTGG | 51.1 |  |  |
| *stiz291* | (TTTG)4 …(TTTTC)4 | F: TGGCTTTCTTGTCTTAGGTGCA | 60.16 | 103 | MK436001 |
|  |  | R: AGAGAACGCCCCAACCCA | 60.58 |  |  |
| *stiz292* | (TTTCG)4 | F: CATAAGCAGGAACACGGTGG | 58.91 | 107 | MK436002 |
|  |  | R: GAGCAAAATACTCTGTCAAGGGA | 58.42 |  |  |
| *stiz293* | (CCAAG)4 | F: TGGGAAGTATTCATCAGAGTTCG | 57.99 | 150 | MK436003 |
|  |  | R: AGGTTCGACTCAATTCCACAC | 58.23 |  |  |
| *stiz295* | (GTCAA)5 | F: CGAGTTCTCTATATTCACAGCCC | 58.45 | 151 | MK436004 |
|  |  | R: GACTTCCCGTAGCATGGAAAC | 58.99 |  |  |
| *stiz297* | (CTCTT)4 | F: TCCTCACACAAACTTGCTCT | 56.99 | 127 | MK436005 |
|  |  | R: GTGCTTGATTATGAAACCCACA | 57.22 |  |  |
| *stiz298* | (CTCTT)5 | F: CCTCACACAAACTTGCTCTT | 56.18 | 140 | MK436006 |
|  |  | R: TGACTTTAGTGCTCGATTAGGA | 56.67 |  |  |
| *stiz300* | (CTCTT)5 | F: GTGTCTTCATTTTCCTCACAAC | 55.85 | 154 | MK436007 |
|  |  | R: TGACTTTAGTGCTCGATTAGGA | 56.67 |  |  |
| *stiz301* | (CTCTT)4 | F: TCCTCACACAAACTTGCTCT | 56.99 | 132 | MK436008 |
|  |  | R: GTGCTTGATTATGAAACCCACA | 57.22 |  |  |
| *stiz302* | (CTCTT)4 | F: GTCTTCATTTTCCTCACAAC | 52.41 | 118 | MK436009 |
|  |  | R: CATTCTACTCATGTTGCTGT | 53.32 |  |  |
| *stiz303* | (CTCTT)4 | F: AAGCCTGCTCTTGGTTTCC | 57.96 | 118 | MK436010 |
|  |  | R: GTGCTTGATTATGAAACCCACA | 57.22 |  |  |
| *stiz304* | (CTCTT)4 | F: CGCACACAAACTTGCTCTTG | 58.53 | 120 | MK436011 |
|  |  | R: AGGAAACCCACATTCTACTCATG | 58.15 |  |  |
| *stiz305* | (CTCTT)4 | F: GGCATTGTGTCTTCATTTTCCTC | 58.51 | 128 | MK436012 |
|  |  | R: CGCATTCTACTCATGTTGCCT | 58.72 |  |  |
| *stiz306* | (CTCTT)7 | F: GCTATAAATAGGAGGCATTGTG | 54.75 | 150 | MK436013 |
|  |  | R: TATGAAACCCGCATTCTACTC | 55.59 |  |  |
| *stiz307* | (CTCTT)4 | F: TCACACAAACTTGCTCTTGGT | 58.28 | 124 | MK436014 |
|  |  | R: GTGCTCGATTAGGAAACCCAC | 58.99 |  |  |
| *stiz308* | (CTCTT)4 | F: GTGTCTTCATTTTCCTCACA | 53.45 | 120 | MK436015 |
|  |  | R: CATTCTACTCATGTTGCCTT | 53.28 |  |  |
| *stiz309* | (CTCTT)4 | F: AAACTTGCTCTTGGTTTCCA | 55.67 | 108 | MK436016 |
|  |  | R: AGGAAACCCACATTCTACTCA | 56.27 |  |  |
| *stiz310* | (TCTCC)4 | F: CCTCTCCACCTCCACCACAA | 61.13 | 105 | MK436017 |
|  |  | R: GGAGAGGAGAGACGGCGG | 61.21 |  |  |
| *stiz311* | (TGGGGG)4 | F: TTTTCACTGAGGCTGATTGGT | 57.77 | 100 | MK436018 |
|  |  | R: ATTCTCCAAAGCATGTTCTGGA | 57.96 |  |  |
| *stiz312* | (AACACC)4 | F: TGGAATATCATAACCTGCACAG | 55.94 | 109 | MK436019 |
|  |  | R: CATTGCCCTTGGATTAGTGT | 55.69 |  |  |
| *stiz314* | (TGGGCG)4 | F: CGTGGGAAAGGGGAGGGG | 61.73 | 108 | MK436020 |
|  |  | R: CACCATCATCGCCCACAACA | 60.96 |  |  |
| *stiz315* | (CCGGGA)4 | F: GTCCCGTCCTGATTATTTCGG | 58.52 | 107 | MK436021 |
|  |  | R: CGGTTTTGAATCGGGACACA | 58.77 |  |  |
| *stiz316* | (GGGCGT)4 | F: CGTGGGAAAGGGGAGGGG | 61.73 | 108 | MK436022 |
|  |  | R: CACCATCATCGCCCACAACA | 61 |  |  |
| *stiz317* | (GAAGCC)5 | F: GCAAGATAGGTACAGTGACAGC | 58.81 | 100 | MK436023 |
|  |  | R: TTCATCATACCTCCTAGCGGC | 59.38 |  |  |
| *stiz318* | (ACACCA)4 | F: TGGAATATCATAACCTGCACAG | 55.94 | 109 | MK436024 |
|  |  | R: CATTGCCCTTGGATTAGTGT | 55.69 |  |  |
| *stiz319* | (TCTCCT)4 | F: CGGATGTCCTAGTGTTTCGG | 58.08 | 119 | MK436025 |
|  |  | R: GAGGAGGAGGAGGAGATTGAAT | 58.41 |  |  |
| *stiz320* | (CAGGTT)4 | F: GCAGTCCCCATAAACGGTC | 58.22 | 124 | MK436026 |
|  |  | R: TGGATTATAAGGAGCCTGAACC | 57.29 |  |  |

**APPENDIX 2.** Voucher and locality information for all individuals of *Stizophyllum* sampled.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Species** | **Population Code** | **Locality** | **Geographic coordinates** | **Voucher no.a** |
| *Stizophyllum riparium* (Kunth) Sandwith | CAZ | Brazil, Amazonas, Manaus | 3°00'14"N, 59°55'07"W | A. Nogueira 170\* |
| SWA | Peru, San Martin, Tocache Nuevo | 08°11'02"S, 76°30'43"W | J. Schunke-Vigo 124045 |
|  | SWA | Brazil, Acre, Rio Branco | 09°58'29"N, 67°48'36"W | Albuquerque 139803 |
|  | SWA | Brazil, Acre, Senador Guilmard | 10°03'59"S, 67°37'06"W | M. Beyer 375 |
|  | SWA | Brazil, Acre, Senador Guilmard | 10°03'59"S, 67°37'06"W | M. Beyer 375 |
|  | SWA | Brazil, Acre, Senador Guilmard | 10°03'59"S, 67°37'06"W | M. Beyer 375 |
|  | SWA | Brazil, Acre, Senador Guilmard | 10°03'59"S, 67°37'06"W | M. Beyer 375 |
|  | SWA | Brazil, Acre, Senador Guilmard | 10°03'59"S, 67°37'06"W | M. Beyer 375 |
|  | SWA | Brazil, Acre, Epitáciolandia | 10°48'36"S, 68°46'09"W | M. Beyer 383 |
|  | SWA | Brazil, Acre, Epitáciolandia | 10°48'36"S, 68°46'09"W | M. Beyer 383 |
|  | SWA | Brazil, Acre, Epitáciolandia | 10°48'36"S, 68°46'09"W | M. Beyer 383 |
|  | SWA | Brazil, Acre, Epitáciolandia | 10°48'36"S, 68°46'09"W | M. Beyer 383 |
|  | SWA | Brazil, Acre, Epitáciolandia | 10°48'36"S, 68°46'09"W | M. Beyer 383 |
|  | SWA | Brazil, Acre, Epitáciolandia | 10°48'36"S, 68°46'09"W | M. Beyer 383 |
|  | SWA | Brazil, Acre, Epitáciolandia | 10°48'36"S, 68°46'09"W | M. Beyer 383 |
|  | SWA | Brazil, Acre, Epitáciolandia | 10°48'36"S, 68°46'09"W | M. Beyer 383 |
|  | SWA | Brazil, Acre, Epitáciolandia | 10°48'36"S, 68°46'09"W | M. Beyer 383 |
|  | SWA | Brazil, Acre, Bujari | 9°58'29"s, 67°48'36"W | M. Beyer 383 |
|  | EAM | Brazil, Pará, Parauapebas | 06°10'12''S, 50°21'02''W | M. Beyer 295 |
|  | EAM | Brazil, Pará, Parauapebas | 06°09'46''S, 50°20'52''W | M. Beyer 295 |
|  | EAM | Brazil, Pará, Parauapebas | 06°10'13''S, 50°21'04''W | M. Beyer 295 |
|  | EAM | Brazil, Pará, Parauapebas | 06°09'45''S, 50°20'51''W | M. Beyer 295 |
|  | EAM | Brazil, Pará, Parauapebas | 06°09'48''S, 50°20'52''W | M. Beyer 295 |
|  | EAM | Brazil, Pará, Parauapebas | 06°10'08''S, 50°21'01''W | M. Beyer 295 |
|  | EAM | Brazil, Pará, Parauapebas | 06°10'04''S, 50°21'02''W | M. Beyer 295 |
|  | EAM | Brazil, Pará, Parauapebas | 06°10'04''S, 50°21'02''W | M. Beyer 295 |
|  | EAM | Brazil, Pará, Parauapebas | 06°10'02''S, 50°21'02''W | M. Beyer 295 |
|  | EAM | Brazil, Pará, Parauapebas | 06°09'46''S, 50°20'51''W | M. Beyer 295 |
|  | EAM | Brazil, Pará, Parauapebas | 06°09'48''S, 50°20'53''W | M. Beyer 301 |
|  | EAM | Brazil, Pará, Parauapebas | 06°09'36''S, 50°25'21''W | M. Beyer 302 |
|  | EAM | Brazil, Pará, Parauapebas | 06°04'10''S, 50°14'46''W | M. Beyer 303 |
|  | EAM | Brazil, Pará, Parauapebas | 06°03'55''S, 50°12'57''W | M. Beyer 303 |
|  | EAM | Brazil, Pará, Parauapebas | 06°04'14''S, 50°14'44''W | M. Beyer 303 |
|  | EAM | Brazil, Pará, Novo Repartimento | 04°19'57''S, 49°56'57''W | M. Beyer 315 |
|  | EAM | Brazil, Pará, Altamira | 03°12'20''S, 51°14'56''W | M. Beyer 317 |
|  | EAM | Brazil, Pará, Moju | 03°50'25''S, 46°06'40''W | M. Beyer 318 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°35'28"S, 56°30'49"W | M. Beyer 353 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°35'28"S, 56°30'49"W | M. Beyer 353 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°35'28"S, 56°30'49"W | M. Beyer 353 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°35'28"S, 56°30'49"W | M. Beyer 353 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°35'28"S, 56°30'49"W | M. Beyer 353 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°35'28"S, 56°30'49"W | M. Beyer 353 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°35'28"S, 56°30'49"W | M. Beyer 353 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°23'13"S, 56°30'07"W | M. Beyer 354 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°23'13"S, 56°30'07"W | M. Beyer 354 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°23'13"S, 56°30'07"W | M. Beyer 354 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°23'13"S, 56°30'07"W | M. Beyer 354 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°23'13"S, 56°30'07"W | M. Beyer 354 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°23'13"S, 56°30'07"W | M. Beyer 354 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°23'13"S, 56°30'07"W | M. Beyer 354 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°23'13"S, 56°30'07"W | M. Beyer 354 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°23'13"S, 56°30'07"W | M. Beyer 354 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°31'48"S, 9°31'48"W | M. Beyer 356 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°31'48"S, 9°31'48"W | M. Beyer 356 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°31'48"S, 9°31'48"W | M. Beyer 356 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°31'48"S, 9°31'48"W | M. Beyer 356 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°31'48"S, 9°31'48"W | M. Beyer 356 |
|  | SAM | Brasil, Mato Grosso, Paranaíta | 9°31'48"S, 9°31'48"W | M. Beyer 356 |
| *Stizophyllum perforatum* (Cham.) Miers | - | Brasil, São Paulo, Candido Mota | 22°45'27''S, 50°22'06''W | JP. Souza 9703 |
| - | Brasil, Paraná, Londrina | 23° 34' 12''S, 50° 57'42''W | LHM. Fonseca 105 |
| - | Brasil Paraná Londrina | 23° 34' 12''S, 50° 57'42''W | LHM. Fonseca 103 |
|  | - | Brasil, Minas Gerais, Belo Horizonte | 11° 54'S, 71° 22'W | Lombardi 24311 |
|  | - | Brasil, Rio de Janeiro, São Pedro de Aldeia | 22°50'10''S, 42°06'13''W | JA. Kallunki s.n |
|  | - | Brasil, Piaui, Eliseu Martins | 08°05'27''S, 43°39'42''W | P. Martins & E. Nunes s.n.4 |
| *Stizophyllum inaequilaterum* Bureau & K. Schum. | - | Brasil, Acre, Marechal Taumaturgo | 08°56'29'' S, 72°47'33''W | LG. Lohmann 454 |
| - | Equador, Amazonia, Orellana | 0°40'59'' S, 76°24' W | H. Romero-Saltos 2831 |
| - | Peru, Ucayali, Pedro Abad | 09°09'02''S, 75°47'20''W | J. Schunke-Vigo 15997 |
|  | - | Frech Guiana, Saul | 03°37'22''N, 53°12'34''W | SA. Mori 242422 |
|  | - | Peru, San Martin, Tocache | 08°11'22''S, 76°30'57''W | J. Schunke-Vigo 146093 |
|  | - | Brazil, Amazonas, Letícia | 04°12'19''S, 69°55'58'' W | A. Gentry 18302 |

**Note:** CAZ = Central Amazonia; EAM = East of Amazonia; SAM = South of Amazonia; SWA = South Western Amazonia.

aMost specimens are deposited at the Herbarium of the University of São Paulo (SPF), São Paulo, Brazil, except from five samples (1) that are deposited at the Missouri Botanical Garden Herbarium (MO), St. Louis, USA; one sample (2) that is deposited at the Muséum National d'Histoire Naturelle (P), Paris, France; one sample (3) that is deposited at the New York Botanical Garden Herbarium (NY), New York, USA; one sample (4) that is deposited at the Herbarium of the Federal University of Ceará (EAC), Fortaleza, Brazil; and, (5) that is deposited at the Herbarium of the Botanical Garden of Rio de Janeiro (RB), Rio de Janeiro, Brazil.

\* Sample used for DNA extraction.

**APPENDIX 3.** Null alleles (average of all values estimated\*) of the three population of *Stizophyllum riparium*.

|  |  |  |  |
| --- | --- | --- | --- |
| **Locus** | **SWA** | **SAM** | **EAM** |
| *stiz63* | **0,1831** | **0,108575** | 0 |
| *stiz104* | 0,025525 | 0 | 0,0656 |
| *stiz112* | 0 | 0 | 0 |
| *stiz123* | 0,090825 | 0 | 0,020775 |
| *stiz133* | **0,129525** | 0,03105 | 0 |
| *stiz135* | **0,385375** | **0,253175** | 0,058925 |
| *stiz138* | **0,1863** | 0 | 0 |
| *stiz154* | 0 | 0 | **0,232025** |
| *stiz156* | 0,0677 | 0 | 0 |
| No. Loci | 4 | 2 | 1 |

**Note:** Bold values correspond to loci with presence of null alleles.

\* The values estimated by Microcheker were Oosterhout, Chakraborty, Brookfield1 and Brookfield2 methods

**APPENDIX 4.** Transferability of the nine nuclear microsatellite loci developed for *Stizophyllum riparium* across two species of the genus.

|  |  |  |  |
| --- | --- | --- | --- |
| **Locus** | **Repeat motif** | ***S. perforatum*** | ***S. inaequilaterum*** |
| *stiz63* | (AG)14 | + | + |
| *stiz104* | (AC)17 | + | + |
| *stiz112* | (TC)16 | + | + |
| *stiz123* | (TC)16 | + | + |
| *stiz133* | (TC)16 | + | + |
| *stiz135* | (CTT)11 | + | + |
| *stiz138* | (CTT)9 | + | + |
| *stiz154* | (CTT)8 | + | + |
| *stiz156* | (CTC)8 | + | + |

Note: successful amplification (+) evidenced by the occurrence of distinct single band on sequencing gel.