

**Table S2 Sequences of probes used for amplifying GPW microsatellites.**

SSR	Sequence primer Forward (5'—3')	Sequence primer reverse (5'—3')
gpw_2006	ATGAGAAGGGGGTCAGGATT	ACATGTTCAGCCCAGGAGAC
gpw_2010	ACCCATTGCCTTTCTTTTT	TCTGTTGATGATCCGTCCAA
gpw_2018	ATGTAGGCAGAGCACACACG	AGTCGATGAAAGGCAGCATC
gpw_2029	TAAAGCTAAACACGACGGGG	CACCGCGAACGAATAAAAC
gpw_2032	CCTGGAAGAATAGACGTGCC	CAAGATGGGGCAGAAGATGT
gpw_2069	AGGAGAAGGCGTAAGAACCC	GGCAAGCTGGTCTGTGTAT
gpw_2080	ATCGCATGTAACTGCACAA	CCTTTAATCGATTGCTCGGA
gpw_2098	ACACACCCGCAAAATAATCT	TGACGCCACATAGGTCAATC
gpw_2109	TATATTGTCACGGGGCTTC	TGGTGGAGAGTCTTGACTG
gpw_2111	AAATTTTTGTCTGCCGCTT	CTTGTCGTTGAGAGTTGGA
gpw_2115	TTACAAGGCCGTAAATTGCC	TGCTTGCTGACCACTGAATC
gpw_2117	TGGCCTGAAATCTTAGCCTG	CAAGAATGCGATAAGATGGGA
gpw_2125	GGATGGGAAATGTTGGATG	AAAATCAAACGGCAACTTGG
gpw_2127	GACAACACCGATCCGTAC	TGTCCATGCGTTCTATTCCA
gpw_2132	TCCCCAAATATGTGGCTAT	TATGTTGCATTGTGGTGGCT
gpw_2138	ATAGGAGGACTCCTGGGCTC	TTGCCTCAACTAGATCGCCT
gpw_2139	TGTTAACCCAGTTTCTTATGC	ACACTGATGCATCCCACAAA
gpw_2140	GTCCACGTGCTAGGGAGGTA	ACATGCCCTAAGCTGCCCCA
gpw_2142	ACAACCTGCTCAGCTCCTTC	GATTAATTAAGCCAGGGACCG
gpw_2160	ATTTACGGCTCGACCACTCA	ACTGGAAGGGGGCGCAAGC
gpw_2166	GCCCCTGACATATTACTGT	AAACTGGATGGTTGCATTCC
gpw_2169	GCCAGGCCATCAGTAAATTC	AATGGGCACAATTTGAGAGC
gpw_2216	ACGAGGAATTGCATCCTAGC	CAAAGTAGAAATTTATGCGCGA
gpw_2222	TCTCAGGAGCTAGCAGCACA	CTTCTGCCGATACATCCCAT
gpw_2228	TGTAGCTTCTGCATCACAAA	CAAACCTTGCAGCTGCATTA
gpw_2229	CTGCGTGCTCCTAATTT	CTCCACCGTGTCTGGATAG
gpw_2237	CTTTGCTTGCGGTAGGAGAC	TGATCTATCAGGGTGAGCCC
gpw_2239	CAACCATATGCCCAGGAGAC	TGTTGCTGTCTGAAACAGGG
gpw_2243	GGGCAATCTGTTGGATCTGT	CCACTTCGCTGCTGATGTAA
gpw_2250	AGCCATAGATGGCCCTACCT	CACTCAATGGCAGGTCCTTT
gpw_2253	TGAGGAGAGGGGATATACGG	TTTGGCAAATCTTATTGCC
gpw_2258	ATATAGGGCCGATGTGTGGA	GGTCAGCAAAGTCAGCCTT
gpw_2260	CATCTCTACCCGATCCCTCA	ACGCCGGTCTATTGAAAGTG
gpw_2264	TTGCTTTCCAAATTGTGCT	GGCATTGAGAAATCCAAGCAT
gpw_2266	TTTTTGCCACACGGC	CGTGGAGGTGTCGACCTAAT
gpw_2269	CACATCAACAGTCTCTTCTA	CTAGCTGGTGGTGGTCTTGG
gpw_2270	GAGGTCGTGAAGGGAAGG	ATCGGACGGCCTGAGTTATA
gpw_2275	CTGCTGAACGTTGGAGGAT	GGCCGTCTTTAGCTTTTGT
gpw_2276	ATAGGGTCTTCTGTGCC	ACCCACAGTTGAAGTGGG
gpw_2277	TCAGAAGAGCGATGAGATAGAAA	GCCATTTTGGGCTCAGTG
gpw_2281	TCATCATGGTATGAGCGTGG	ACAAGCATTCCAATTTGCC
gpw_2283	CTCTGTCAACGAGCTGGA	AATGGGCTCAGATGCTCTG
gpw_2297	TCGGAGAACCAAATGATCC	GACTAACCACTGGGAGTCGC
gpw_2302	GCTTCACATCATAGTGTGATAAGA	AAGCACCTCCCATGCATATC
gpw_2308	GGAGGAACCGAATCCAGAGT	GAGGCCGATCACATAAAGGA
gpw_2311	CCAAAAGTGGTGGATCAAT	TGCAAGAACAGCTTACCGTC
gpw_2323	AGAAGTTGGCTTCCGCTTTC	AGTTGAAGATGGCCAGATG
gpw_2328	ATCCCAACAAACACTACCG	TTGTCTCCATGACTATGTGGG
gpw_2331	GCGGGCTCAATATTGCTAGT	GCATGGCTGAGGCTCAAGTA
gpw_2335	TTTGAGTTGCCACAAAAGT	TGTTTTGTCTCACAGGCTGC