

Supplementary Table S1: Information on water yam genotypes

Ascension	Location	Reps
TDa0000194	Ibadan	1
TDa0000194	Ibadan	2
TDa0100029	Ibadan	1
TDa0100029	Ibadan	2
TDa0100299	Ibadan	1
TDa0100299	Ibadan	2
TDa0500056	Ibadan	1
TDa0500056	Ibadan	2
TDa0700015	Ibadan	1
TDa0700015	Ibadan	2
TDa0700135	Ibadan	1
TDa0700135	Ibadan	2
TDa0700154	Ibadan	1
TDa0700154	Ibadan	2
TDa0800007	Ibadan	1
TDa0800007	Ibadan	2
TDa0900026	Ibadan	1
TDa0900026	Ibadan	2
TDa0900128	Ibadan	1
TDa0900128	Ibadan	2
TDa0900217	Ibadan	1
TDa0900217	Ibadan	2
TDa0900554	Ibadan	1
TDa0900554	Ibadan	2
TDa0900602	Ibadan	1
TDa0900602	Ibadan	2
TDa1000169	Ibadan	1
TDa1000169	Ibadan	2
TDa1000592	Ibadan	1
TDa1000592	Ibadan	2
TDa1000918	Ibadan	1
TDa1000918	Ibadan	2
TDa1000994	Ibadan	1
TDa1000994	Ibadan	2
TDa1100193	Ibadan	1
TDa1100193	Ibadan	2
TDa1100201	Ibadan	1
TDa1100201	Ibadan	2
TDa1100202	Ibadan	1
TDa1100202	Ibadan	2
TDa1100203	Ibadan	1

TDa1100203	Ibadan	2
TDa1100204	Ibadan	1
TDa1100204	Ibadan	2
TDa1100228	Ibadan	1
TDa1100228	Ibadan	2
TDa1100242	Ibadan	1
TDa1100242	Ibadan	2
TDa1100248	Ibadan	1
TDa1100248	Ibadan	2
TDa1100264	Ibadan	1
TDa1100264	Ibadan	2
TDa1100283	Ibadan	1
TDa1100283	Ibadan	2
TDa1100295	Ibadan	1
TDa1100295	Ibadan	2
TDa1100299	Ibadan	1
TDa1100299	Ibadan	2
TDa1100300	Ibadan	1
TDa1100300	Ibadan	2
TDa1100317	Ibadan	1
TDa1100317	Ibadan	2
TDa1100414	Ibadan	1
TDa1100414	Ibadan	2
TDa1100432	Ibadan	1
TDa1100432	Ibadan	2
TDa1100462	Ibadan	1
TDa1100462	Ibadan	2
TDa1400051	Ibadan	1
TDa1400051	Ibadan	2
TDa1400062	Ibadan	1
TDa1400062	Ibadan	2
TDa1400064	Ibadan	1
TDa1400064	Ibadan	2
TDa1400301	Ibadan	1
TDa1400301	Ibadan	2
TDa1400367	Ibadan	1
TDa1400367	Ibadan	2
TDa1400380	Ibadan	1
TDa1400380	Ibadan	2
TDa1400432	Ibadan	1
TDa1400432	Ibadan	2
TDa1400911	Ibadan	1
TDa1400911	Ibadan	2
TDa1401132	Ibadan	1

TDa1401132	Ibadan	2
TDa1401162	Ibadan	1
TDa1401162	Ibadan	2
TDa1401249	Ibadan	1
TDa1401249	Ibadan	2
TDa1401253	Ibadan	1
TDa1401253	Ibadan	2
TDa1401270	Ibadan	1
TDa1401270	Ibadan	2
TDa1401276	Ibadan	1
TDa1401276	Ibadan	2
TDa1401319	Ibadan	1
TDa1401319	Ibadan	2
TDa1401400	Ibadan	1
TDa1401400	Ibadan	2
TDa1401409	Ibadan	1
TDa1401409	Ibadan	2
TDa1401619	Ibadan	1
TDa1401619	Ibadan	2
TDa1401684	Ibadan	1
TDa1401684	Ibadan	2
TDa1402043	Ibadan	1
TDa1402043	Ibadan	2
TDa8701091	Ibadan	1
TDa8701091	Ibadan	2
TDa92:2	Ibadan	1
TDa92:2	Ibadan	2
TDa9801174	Ibadan	1
TDa9801174	Ibadan	2
TDa9900240	Ibadan	1
TDa9900240	Ibadan	2
TDa0000194	Ikenne	1
TDa0000194	Ikenne	2
TDa0100029	Ikenne	1
TDa0100029	Ikenne	2
TDa0100299	Ikenne	1
TDa0100299	Ikenne	2
TDa0500056	Ikenne	1
TDa0500056	Ikenne	2
TDa0700015	Ikenne	1
TDa0700015	Ikenne	2
TDa0700135	Ikenne	1
TDa0700135	Ikenne	2
TDa0700154	Ikenne	1

TDa0700154	Ikenne	2
TDa0800007	Ikenne	1
TDa0800007	Ikenne	2
TDa0900026	Ikenne	1
TDa0900026	Ikenne	2
TDa0900128	Ikenne	1
TDa0900128	Ikenne	2
TDa0900217	Ikenne	1
TDa0900217	Ikenne	2
TDa0900554	Ikenne	1
TDa0900554	Ikenne	2
TDa0900602	Ikenne	1
TDa0900602	Ikenne	2
TDa1000169	Ikenne	1
TDa1000169	Ikenne	2
TDa1000592	Ikenne	1
TDa1000592	Ikenne	2
TDa1000918	Ikenne	1
TDa1000918	Ikenne	2
TDa1000994	Ikenne	1
TDa1000994	Ikenne	2
TDa1100193	Ikenne	1
TDa1100193	Ikenne	2
TDa1100201	Ikenne	1
TDa1100201	Ikenne	2
TDa1100202	Ikenne	1
TDa1100202	Ikenne	2
TDa1100203	Ikenne	1
TDa1100203	Ikenne	2
TDa1100204	Ikenne	1
TDa1100204	Ikenne	2
TDa1100228	Ikenne	1
TDa1100228	Ikenne	2
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TDa1100264	Ikenne	1
TDa1100264	Ikenne	2
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TDa1100283	Ikenne	2
TDa1100295	Ikenne	1
TDa1100295	Ikenne	2
TDa1100299	Ikenne	1

TDa1100299	Ikenne	2
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TDa1100300	Ikenne	2
TDa1100317	Ikenne	1
TDa1100317	Ikenne	2
TDa1100414	Ikenne	1
TDa1100414	Ikenne	2
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TDa1100432	Ikenne	2
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TDa1100462	Ikenne	2
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TDa1400051	Ikenne	2
TDa1400062	Ikenne	1
TDa1400062	Ikenne	2
TDa1400064	Ikenne	1
TDa1400064	Ikenne	2
TDa1400301	Ikenne	1
TDa1400301	Ikenne	2
TDa1400367	Ikenne	1
TDa1400367	Ikenne	2
TDa1400380	Ikenne	1
TDa1400380	Ikenne	2
TDa1400432	Ikenne	1
TDa1400432	Ikenne	2
TDa1400911	Ikenne	1
TDa1400911	Ikenne	2
TDa1401132	Ikenne	1
TDa1401132	Ikenne	2
TDa1401162	Ikenne	1
TDa1401162	Ikenne	2
TDa1401249	Ikenne	1
TDa1401249	Ikenne	2
TDa1401253	Ikenne	1
TDa1401253	Ikenne	2
TDa1401270	Ikenne	1
TDa1401270	Ikenne	2
TDa1401276	Ikenne	1
TDa1401276	Ikenne	2
TDa1401319	Ikenne	1
TDa1401319	Ikenne	2
TDa1401400	Ikenne	1
TDa1401400	Ikenne	2
TDa1401409	Ikenne	1

TDa1401409	Ikenne	2
TDa1401619	Ikenne	1
TDa1401619	Ikenne	2
TDa1401684	Ikenne	1
TDa1401684	Ikenne	2
TDa1402043	Ikenne	1
TDa1402043	Ikenne	2
TDa8701091	Ikenne	1
TDa8701091	Ikenne	2
TDa92:2	Ikenne	1
TDa92:2	Ikenne	2
TDa9801174	Ikenne	1
TDa9801174	Ikenne	2
TDa9900240	Ikenne	1
TDa9900240	Ikenne	2
TDa0000194	Ubiaja	1
TDa0000194	Ubiaja	2
TDa0100029	Ubiaja	1
TDa0100029	Ubiaja	2
TDa0100299	Ubiaja	1
TDa0100299	Ubiaja	2
TDa0500056	Ubiaja	1
TDa0500056	Ubiaja	2
TDa0700015	Ubiaja	1
TDa0700015	Ubiaja	2
TDa0700135	Ubiaja	1
TDa0700135	Ubiaja	2
TDa0700154	Ubiaja	1
TDa0700154	Ubiaja	2
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TDa0900026	Ubiaja	2
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TDa0900128	Ubiaja	2
TDa0900217	Ubiaja	1
TDa0900217	Ubiaja	2
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TDa0900554	Ubiaja	2
TDa0900602	Ubiaja	1
TDa0900602	Ubiaja	2
TDa1000169	Ubiaja	1
TDa1000169	Ubiaja	2
TDa1000592	Ubiaja	1

TDa1000592	Ubiaja	2
TDa1000918	Ubiaja	1
TDa1000918	Ubiaja	2
TDa1000994	Ubiaja	1
TDa1000994	Ubiaja	2
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TDa1100193	Ubiaja	2
TDa1100201	Ubiaja	1
TDa1100201	Ubiaja	2
TDa1100202	Ubiaja	1
TDa1100202	Ubiaja	2
TDa1100203	Ubiaja	1
TDa1100203	Ubiaja	2
TDa1100204	Ubiaja	1
TDa1100204	Ubiaja	2
TDa1100228	Ubiaja	1
TDa1100228	Ubiaja	2
TDa1100242	Ubiaja	1
TDa1100242	Ubiaja	2
TDa1100248	Ubiaja	1
TDa1100248	Ubiaja	2
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TDa1100264	Ubiaja	2
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TDa1100283	Ubiaja	2
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TDa1100299	Ubiaja	1
TDa1100299	Ubiaja	2
TDa1100300	Ubiaja	1
TDa1100300	Ubiaja	2
TDa1100317	Ubiaja	1
TDa1100317	Ubiaja	2
TDa1100414	Ubiaja	1
TDa1100414	Ubiaja	2
TDa1100432	Ubiaja	1
TDa1100432	Ubiaja	2
TDa1100462	Ubiaja	1
TDa1100462	Ubiaja	2
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TDa1400051	Ubiaja	2
TDa1400062	Ubiaja	1
TDa1400062	Ubiaja	2
TDa1400064	Ubiaja	1

TDa1400064	Ubiaja	2
TDa1400301	Ubiaja	1
TDa1400301	Ubiaja	2
TDa1400367	Ubiaja	1
TDa1400367	Ubiaja	2
TDa1400380	Ubiaja	1
TDa1400380	Ubiaja	2
TDa1400432	Ubiaja	1
TDa1400432	Ubiaja	2
TDa1400911	Ubiaja	1
TDa1400911	Ubiaja	2
TDa1401132	Ubiaja	1
TDa1401132	Ubiaja	2
TDa1401162	Ubiaja	1
TDa1401162	Ubiaja	2
TDa1401249	Ubiaja	1
TDa1401249	Ubiaja	2
TDa1401253	Ubiaja	1
TDa1401253	Ubiaja	2
TDa1401270	Ubiaja	1
TDa1401270	Ubiaja	2
TDa1401276	Ubiaja	1
TDa1401276	Ubiaja	2
TDa1401319	Ubiaja	1
TDa1401319	Ubiaja	2
TDa1401400	Ubiaja	1
TDa1401400	Ubiaja	2
TDa1401409	Ubiaja	1
TDa1401409	Ubiaja	2
TDa1401619	Ubiaja	1
TDa1401619	Ubiaja	2
TDa1401684	Ubiaja	1
TDa1401684	Ubiaja	2
TDa1402043	Ubiaja	1
TDa1402043	Ubiaja	2
TDa8701091	Ubiaja	1
TDa8701091	Ubiaja	2
TDa92:2	Ubiaja	1
TDa92:2	Ubiaja	2
TDa9801174	Ubiaja	1
TDa9801174	Ubiaja	2
TDa9900240	Ubiaja	1
TDa9900240	Ubiaja	2

Supplementary Table S2: Information on white yam and landraces genotypes

Ascension	Location	Rep
TDr Ojuiyawo	Ibadan	1
TDr Ojuiyawo	Ibadan	2
TDr Mecca kusa	Ibadan	1
TDr Mecca kusa	Ibadan	2
TDr 1000793	Ibadan	1
TDr 1000793	Ibadan	2
TDr 1100055	Ibadan	1
TDr 1100055	Ibadan	2
TDr 1100490	Ibadan	1
TDr 1100490	Ibadan	2
TDr 1400359	Ibadan	1
TDr 1400359	Ibadan	2
TDr 1401220	Ibadan	1
TDr 1401220	Ibadan	2
TDr Ojuiyawo	Ikenne	1
TDr Ojuiyawo	Ikenne	2
TDr Mecca kusa	Ikenne	1
TDr Mecca kusa	Ikenne	2
TDr 1000793	Ikenne	1
TDr 1000793	Ikenne	2
TDr 1100055	Ikenne	1
TDr 1100055	Ikenne	2
TDr 1100490	Ikenne	1
TDr 1100490	Ikenne	2
TDr 1400359	Ikenne	1
TDr 1400359	Ikenne	2
TDr 1401220	Ikenne	1
TDr 1401220	Ikenne	2
TDr Ojuiyawo	Ubiaja	1
TDr Ojuiyawo	Ubiaja	2
TDr Mecca kusa	Ubiaja	1
TDr Mecca kusa	Ubiaja	2
TDr 1000793	Ubiaja	1
TDr 1000793	Ubiaja	2

TDr 1100055	Ubiaja	1
TDr 1100055	Ubiaja	2
TDr 1100490	Ubiaja	1
TDr 1100490	Ubiaja	2
TDr 1400359	Ubiaja	1
TDr 1400359	Ubiaja	2
TDr 1401220	Ubiaja	1
TDr 1401220	Ubiaja	2