

S1 Table. List of 558 sweetpotato germplasms

No.	IT No.	Origin	G	H	No.	IT No.	Origin	G	H
SP1	232005	JPN	I	PH	SP43	232047	KOR	h	PH
SP2	232006	KOR	a	H8	SP44	232048	KOR	a	H8
SP3	232007	KOR	I	PH	SP45	232049	KOR	I	H5
SP4	232008	JPN	a	H26	SP46	232050	KOR	I	H5
SP5	232009	JPN	a	H12	SP47	232051	KOR	I	H9
SP6	232010	JPN	g	PH	SP48	232052	KOR	a	H8
SP7	232011	JPN	I	PH	SP49	232053	KOR	d	H1
SP8	232012	JPN	a	H25	SP50	232054	KOR	I	H5
SP9	232013	JPN	I	H14	SP51	232055	KOR	a	PH
SP10	232014	JPN	I	H14	SP52	232056	KOR	a	PH
SP11	232015	JPN	a	H12	SP53	232057	KOR	I	H5
SP12	232016	JPN	I	PH	SP54	232058	KOR	I	H9
SP13	232017	JPN	a	H25	SP55	232059	KOR	a	H8
SP14	232018	JPN	a	H26	SP56	232060	KOR	I	H5
SP15	232019	JPN	I	H14	SP57	232061	KOR	I	H9
SP16	232020	JPN	d	PH	SP58	232062	KOR	I	H9
SP17	232021	KOR	I	H14	SP59	232063	KOR	d	PH
SP18	232022	KOR	I	H13	SP60	232064	KOR	I	H13
SP19	232023	KOR	a	H8	SP61	232065	JPN	I	H9
SP20	232024	KOR	I	H5	SP62	232066	JPN	a	H12
SP21	232025	KOR	I	H5	SP63	232067	JPN	a	H12
SP22	232026	KOR	I	H21	SP64	232068	JPN	a	H8
SP23	232027	KOR	I	H13	SP65	232069	JPN	I	H5
SP24	232028	KOR	I	H13	SP66	232070	JPN	I	H5
SP25	232029	KOR	I	PH	SP67	232071	JPN	d	PH
SP26	232030	KOR	d	H1	SP68	232072	JPN	a	H8
SP27	232031	KOR	a	H8	SP69	232073	JPN	I	H9
SP28	232032	KOR	I	H5	SP70	232074	JPN	I	H9
SP29	232033	KOR	a	H12	SP71	232076	JPN	a	H8
SP30	232034	KOR	a	H12	SP72	232077	JPN	a	H8
SP31	232035	KOR	I	H5	SP73	232078	JPN	I	H9
SP32	232036	KOR	I	H9	SP74	232079	JPN	a	H12
SP33	232037	KOR	I	H14	SP75	232080	JPN	a	PH
SP34	232038	KOR	I	H5	SP76	232081	JPN	a	H8
SP35	232039	KOR	I	H5	SP77	232082	JPN	a	H8
SP36	232040	KOR	I	H13	SP78	232083	JPN	d	H1
SP37	232041	KOR	I	H5	SP81	232087	JPN	I	H5
SP38	232042	KOR	I	H5	SP82	232088	TWN	I	H21
SP39	232043	KOR	I	H5	SP83	232089	TWN	f	PH
SP40	232044	KOR	I	H13	SP84	232090	TWN	a	H12
SP41	232045	KOR	I	H13	SP85	232091	TWN	a	H8
SP42	232046	KOR	I	H5	SP86	232092	TWN	a	H8

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No.	IT No.	Origin	G	H	No.	IT No.	Origin	G	H
SP87	232093	TWN	I	H5	SP132	232141	TWN	d	H18
SP88	232094	TWN	I	H5	SP133	232142	TWN	b	H2
SP89	232095	TWN	I	H21	SP134	232143	TWN	b	H2
SP90	232096	TWN	I	H9	SP135	232144	TWN	d	H1
SP91	232097	TWN	a	H12	SP136	232145	TWN	b	H2
SP92	232098	USA	I	H5	SP137	232146	TWN	d	H3
SP93	232099	USA	I	H5	SP138	232147	TWN	d	H1
SP94	232100	USA	I	H9	SP139	232148	TWN	b	H2
SP95	232101	USA	a	H8	SP140	232149	TWN	d	H19
SP96	232102	USA	I	H9	SP141	232150	TWN	d	PH
SP97	232103	USA	a	H8	SP142	232151	TWN	d	H3
SP98	232104	USA	I	H13	SP143	232152	TWN	d	PH
SP99	232105	USA	I	H5	SP144	232153	TWN	d	H1
SP100	232106	USA	b	H15	SP146	232155	TWN	d	PH
SP101	232107	USA	b	H15	SP147	232156	TWN	d	H1
SP102	232108	USA	b	H15	SP148	232157	TWN	b	H30
SP103	232109	USA	d	H1	SP149	232158	TWN	d	H22
SP104	232110	KOR	d	H10	SP150	232159	TWN	d	H3
SP105	232111	KOR	d	H22	SP151	232160	TWN	d	H3
SP106	232112	KOR	d	H1	SP152	232161	TWN	d	H1
SP107	232114	KOR	d	H16	SP153	232162	TWN	b	H11
SP108	232116	USA	b	H15	SP155	232164	TWN	d	H10
SP109	232117	CHN	g	PH	SP156	232165	KOR	d	H22
SP110	232119	CHN	d	H10	SP157	232166	KOR	b	H11
SP111	232120	KOR	d	H10	SP158	232167	KOR	d	H1
SP112	232121	KOR	d	H16	SP159	232168	KOR	d	H3
SP113	232122	KOR	b	H15	SP160	232169	KOR	b	H11
SP114	232123	KOR	d	H10	SP161	232170	KOR	b	PH
SP115	232124	KOR	d	H16	SP162	232171	KOR	b	H11
SP117	232126	USA	b	H2	SP163	232172	KOR	d	H1
SP118	232127	USA	d	H1	SP164	232173	KOR	d	H10
SP119	232128	USA	d	H1	SP165	232174	KOR	d	H32
SP122	232131	KOR	d	H3	SP166	232175	USA	b	H11
SP123	232132	TWN	b	H2	SP167	232176	USA	b	H11
SP124	232133	TWN	b	H2	SP168	232177	KOR	d	H10
SP125	232134	KOR	f	PH	SP169	232178	KOR	d	H27
SP126	232135	KOR	d	H3	SP170	232179	KOR	b	H2
SP127	232136	TWN	b	H11	SP171	232180	KOR	d	H1
SP128	232137	TWN	d	H3	SP172	232181	KOR	d	H3
SP129	232138	TWN	b	PH	SP173	232182	KOR	b	H11
SP130	232139	TWN	d	H1	SP174	232183	KOR	b	H2
SP131	232140	TWN	d	H1	SP175	232184	KOR	d	H3

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SP176	232185	KOR	d	H1	SP218	232229	JPN	d	H1
SP177	232186	KOR	d	H1	SP219	232230	JPN	f	PH
SP178	232187	KOR	d	H31	SP220	232231	JPN	b	H2
SP179	232188	KOR	d	H1	SP221	232232	JPN	d	H1
SP180	232189	KOR	d	H3	SP222	232233	JPN	b	H2
SP181	232190	KOR	d	H3	SP223	232234	JPN	d	H1
SP182	232191	KOR	d	H1	SP224	232236	JPN	b	H6
SP183	232192	TWN	d	H1	SP225	232237	JPN	d	H1
SP184	232193	TWN	b	H11	SP226	232238	JPN	b	H24
SP185	232194	TWN	d	H1	SP227	232239	JPN	b	PH
SP186	232195	TWN	d	H1	SP228	232240	JPN	d	H1
SP187	232196	TWN	d	H1	SP229	232241	JPN	d	H1
SP188	232197	TWN	d	H3	SP230	232242	JPN	d	H1
SP189	232198	TWN	d	H10	SP231	232243	JPN	b	H2
SP190	232199	TWN	d	H10	SP232	232244	JPN	d	H1
SP191	232200	TWN	d	H1	SP233	232245	KOR	d	H1
SP192	232201	TWN	d	H3	SP234	232246	KOR	d	H1
SP193	232202	TWN	d	H1	SP235	232247	KOR	d	H1
SP194	232203	JPN	d	H1	SP236	232248	KOR	d	H1
SP195	232204	JPN	d	H1	SP237	232249	KOR	d	H1
SP196	232205	JPN	b	H2	SP238	232250	KOR	d	H1
SP197	232206	KOR	d	H3	SP239	232251	TWN	d	H3
SP198	232207	KOR	d	H1	SP240	232252	TWN	d	H1
SP199	232208	KOR	d	H1	SP241	232253	TWN	d	H1
SP200	232209	KOR	d	H1	SP242	232254	TWN	b	H2
SP201	232210	KOR	d	H1	SP243	232255	TWN	d	H3
SP202	232211	KOR	d	H1	SP244	232256	TWN	b	H6
SP203	232212	KOR	d	H1	SP245	232257	TWN	d	H1
SP204	232213	PHL	b	H2	SP246	232258	TWN	d	H1
SP205	232214	PHL	b	H2	SP247	232259	TWN	b	H2
SP206	232215	PHL	d	H1	SP248	232260	TWN	d	H3
SP207	232216	PHL	b	H2	SP249	232261	TWN	b	PH
SP208	232217	PHL	d	H1	SP250	232262	TWN	b	H2
SP209	232218	PHL	d	H33	SP251	232263	TWN	b	H11
SP210	232219	PHL	d	H1	SP252	232264	TWN	b	H6
SP211	232220	PHL	b	H2	SP253	232265	TWN	d	H1
SP212	232222	KOR	b	H2	SP254	232266	TWN	b	H30
SP213	232223	KOR	d	H1	SP255	232267	TWN	b	H2
SP214	232224	PHL	d	H32	SP256	232268	TWN	b	H2
SP215	232225	KOR	d	H3	SP257	232269	TWN	d	H1
SP216	232226	KOR	d	H1	SP258	232270	TWN	d	H1
SP217	232228	KOR	b	H2	SP259	232271	TWN	b	H2

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SP260	232272	TWN	d	H1	SP303	232318	KOR	d	H3
SP261	232273	TWN	d	H3	SP304	232319	KOR	d	H1
SP262	232274	JPN	d	PH	SP305	232320	KOR	d	H1
SP263	232275	JPN	d	H1	SP306	232321	KOR	b	H2
SP264	232276	JPN	b	H2	SP307	232322	KOR	d	H1
SP265	232277	JPN	b	H2	SP308	232323	KOR	d	H1
SP266	232278	JPN	b	H6	SP309	232324	KOR	d	H1
SP267	232279	JPN	d	H1	SP310	232325	KOR	d	H33
SP268	232280	JPN	d	H1	SP311	232326	KOR	b	H2
SP269	232281	JPN	d	H1	SP312	232327	KOR	d	H1
SP270	232282	JPN	d	H1	SP313	232328	KOR	b	H2
SP271	232283	JPN	b	H2	SP314	232329	KOR	d	H1
SP272	232284	JPN	b	H2	SP315	232331	CHN	d	H3
SP273	232285	JPN	d	H1	SP316	232332	CHN	b	H2
SP274	232286	JPN	d	H1	SP317	232333	CHN	b	H2
SP275	232287	JPN	d	H1	SP318	232334	CHN	b	H2
SP276	232288	JPN	b	H2	SP319	232335	CHN	b	PH
SP277	232289	JPN	b	H2	SP320	232336	CHN	d	H1
SP279	232291	JPN	d	H1	SP321	232337	CHN	b	H2
SP280	232293	JPN	b	H6	SP322	232338	CHN	b	H2
SP281	232294	JPN	b	H2	SP323	232339	CHN	b	H2
SP282	232295	JPN	d	H1	SP324	232340	CHN	d	H1
SP283	232296	JPN	b	H2	SP325	232341	CHN	b	H2
SP284	232298	JPN	d	H1	SP326	232342	CHN	b	H2
SP285	232299	JPN	d	H1	SP327	232343	CHN	d	H1
SP286	232300	JPN	d	H1	SP328	232344	CHN	b	H2
SP287	232301	JPN	b	PH	SP329	232345	CHN	b	H2
SP288	232302	JPN	b	H2	SP330	232346	CHN	b	H6
SP289	232303	JPN	b	H6	SP331	232347	CHN	b	H6
SP290	232304	JPN	d	H1	SP332	232348	CHN	d	H1
SP291	232305	JPN	b	H6	SP333	232349	CHN	b	H2
SP292	232306	JPN	b	H6	SP349	258174	PER	d	H3
SP293	232307	JPN	b	H6	SP350	258175	PER	d	H3
SP294	232308	JPN	c	H23	SP351	258176	PER	b	H2
SP295	232309	JPN	b	H6	SP352	258178	PER	d	H1
SP296	232310	JPN	b	H6	SP353	258179	PER	d	H1
SP297	232311	JPN	d	H1	SP354	258182	PER	b	H2
SP298	232312	JPN	d	H1	SP355	258183	PER	b	H2
SP299	232313	JPN	b	H6	SP356	258184	PER	d	H1
SP300	232314	JPN	d	PH	SP357	258185	PER	d	H19
SP301	232315	JPN	d	H1	SP358	258187	PER	d	H1
SP302	232316	JPN	d	H1	SP359	258188	PER	d	H1

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No.	IT No.	Origin	G	H	No.	IT No.	Origin	G	H
SP360	258189	PER	d	H1	SP407	258236	KOR	b	H2
SP361	258190	PER	d	H1	SP408	258237	KOR	b	H2
SP362	258191	PER	d	H1	SP409	258238	KOR	b	H6
SP363	258192	PER	d	H1	SP410	258239	JPN	b	H6
SP364	258193	PER	b	H2	SP411	258240	KOR	b	H2
SP365	258195	PER	b	H2	SP412	258241	KOR	d	H3
SP366	258196	PER	b	H2	SP413	258242	JPN	b	H2
SP367	258197	PER	b	H6	SP414	258243	KOR	b	H2
SP368	258198	PER	b	H2	SP415	258244	KOR	b	H2
SP369	258199	PER	c	PH	SP416	258246	KOR	d	H3
SP370	258200	PER	d	H1	SP417	258247	KOR	d	H3
SP371	258201	PER	d	H18	SP419	258249	KOR	b	H6
SP372	258202	PER	d	H1	SP420	258250	KOR	d	H3
SP373	258203	PER	d	H1	SP421	258251	KOR	d	H3
SP374	258204	PER	d	H1	SP422	258252	KOR	d	H3
SP375	258205	PER	b	H2	SP423	258253	KOR	b	PH
SP376	258206	PER	b	PH	SP424	258254	KOR	b	PH
SP377	258207	PER	b	H2	SP426	258255	KOR	c	H23
SP378	258208	PER	b	H2	SP427	258256	KOR	b	H6
SP379	258209	PER	b	H2	SP428	258257	KOR	d	H16
SP380	258210	PER	d	H1	SP429	258258	KOR	d	H31
SP381	258211	PER	d	H1	SP430	258259	KOR	d	H1
SP382	258212	PER	c	PH	SP431	258260	KOR	d	H1
SP385	258213	KOR	d	H10	SP432	258261	KOR	d	H10
SP386	258215	KOR	d	H19	SP433	258262	KOR	d	H1
SP387	258216	KOR	d	H1	SP435	258264	KOR	d	H1
SP388	258217	KOR	d	H1	SP436	258265	KOR	d	H1
SP389	258218	KOR	d	H1	SP437	258266	KOR	d	H1
SP390	258219	KOR	b	H6	SP438	258267	KOR	b	H2
SP391	258220	KOR	b	H2	SP440	258269	KOR	d	H1
SP392	258221	JPN	b	H2	SP441	258270	KOR	d	H1
SP393	258222	PRK	b	H2	SP442	258271	KOR	d	H18
SP394	258223	KOR	d	H1	SP443	258272	KOR	d	H1
SP395	258224	IDN	d	H3	SP444	258273	KOR	d	H1
SP396	258225	IDN	d	H1	SP445	258274	KOR	d	H1
SP397	258226	IDN	d	H1	SP446	258275	KOR	d	H27
SP400	258229	KOR	d	H3	SP447	258276	KOR	d	H1
SP401	258230	KOR	d	PH	SP448	258277	KOR	d	H3
SP402	258231	KOR	d	H3	SP449	258278	KOR	d	H1
SP404	258233	KOR	b	H2	SP450	258279	KOR	d	H1
SP405	258234	PRK	b	H2	SP451	258827	KOR	d	PH
SP406	258235	KOR	b	H2	SP452	232330	KOR	b	H24

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SP457	309419	KOR	d	H1	SP506	258292	PER	d	H1
SP458	309420	KOR	d	H3	SP517	258293	PER	d	H1
SP459	309421	KOR	d	H3	SP518	309534	IDN	d	H1
SP460	309422	KOR	d	H1	SP519	309535	IDN	b	H4
SP461	309423	KOR	b	PH	SP520	309536	IDN	d	H1
SP462	309424	KOR	d	H1	SP521	309537	IDN	b	PH
SP463	309425	KOR	d	H1	SP522	309538	IDN	d	H1
SP464	309426	KOR	b	H6	SP523	309539	IDN	d	H1
SP465	309427	KOR	d	H1	SP524	309540	IDN	d	H1
SP466	309428	KOR	d	H1	SP525	309541	IDN	b	H7
SP467	309429	KOR	d	H1	SP526	309542	IDN	b	H4
SP468	309430	KOR	d	PH	SP527	309543	JPN	b	PH
SP469	309431	KOR	d	H1	SP528	258295	PER	d	H1
SP470	309432	KOR	d	H1	SP529	258296	PER	d	H1
SP472	309434	KOR	d	H1	SP530	258297	PER	d	H1
SP473	309435	KOR	d	H1	SP531	258298	PER	d	H3
SP474	309436	KOR	d	H1	SP532	258299	PER	d	H3
SP475	309437	KOR	b	H28	SP533	309443	CHN	b	H4
SP476	309438	KOR	b	H28	SP534	309444	CHN	b	H4
SP477	309439	KOR	b	H4	SP535	309445	CHN	b	H4
SP478	309440	KOR	d	H1	SP536	309446	CHN	b	H4
SP479	309441	KOR	b	H4	SP537	309447	CHN	b	H4
SP480	309442	KOR	b	H4	SP538	309448	CHN	d	H1
SP483	258280	PER	e	H17	SP539	309449	CHN	b	H7
SP484	258289	PER	d	H1	SP540	309450	CHN	b	H7
SP485	309519	JPN	d	H1	SP541	309451	CHN	d	H1
SP486	309520	JPN	d	H1	SP542	309452	CHN	b	H4
SP488	309393	IDN	d	H1	SP543	258282	PER	e	PH
SP489	309394	IDN	b	H7	SP544	309453	CHN	b	H4
SP490	309397	IDN	b	H4	SP545	309454	CHN	e	PH
SP491	309398	IDN	d	H1	SP546	309455	CHN	d	H1
SP492	309400	IDN	d	H1	SP547	309456	CHN	d	H3
SP493	309401	IDN	b	H7	SP548	309457	CHN	d	H1
SP494	309402	IDN	b	H7	SP549	309458	CHN	d	H1
SP495	258290	PER	d	H1	SP550	309459	CHN	b	PH
SP496	309403	IDN	b	H4	SP551	309460	CHN	b	H7
SP497	309529	IDN	b	PH	SP552	309461	CHN	b	H4
SP498	309530	IDN	d	H3	SP553	309462	CHN	b	H7
SP499	309531	IDN	b	H7	SP554	309463	NZE	b	H4
SP500	309417	IDN	b	H7	SP555	309464	NZE	b	H4
SP501	309532	CHN	b	H7	SP556	309465	IDN	d	H3
SP502	309410	IDN	b	H7	SP558	309466	JPN	d	H1

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SP559	309467	JPN	b	H4	SP588	309492	PRK	d	H1
SP560	309468	JPN	d	H1	SP589	309493	JPN	b	H4
SP561	309469	USA	d	H1	SP590	309494	JPN	b	H4
SP562	309470	IDN	d	H1	SP591	309495	JPN	b	H7
SP563	309471	USA	d	H1	SP592	309496	JPN	d	H1
SP564	258284	PER	d	H1	SP593	309497	PRK	b	H7
SP565	309472	IDN	d	H10	SP594	309498	PRK	b	H4
SP567	309473	USA	d	H1	SP595	309499	NZE	d	H1
SP568	309474	USA	b	H4	SP596	258287	PER	d	H1
SP569	309475	USA	d	H1	SP597	309500	NZE	d	H1
SP570	309476	IDN	b	H7	SP599	309501	JPN	d	H1
SP571	309477	IDN	d	H1	SP600	309502	NZE	d	H1
SP572	309478	JPN	d	PH	SP601	309503	USA	d	H1
SP573	309479	JPN	d	H20	SP602	309504	USA	d	H1
SP574	309480	JPN	d	H20	SP603	309505	NZE	b	H4
SP575	258285	PER	e	H17	SP604	309506	JPN	b	H4
SP576	309481	JPN	b	H7	SP605	309507	JPN	b	H4
SP577	309482	JPN	b	H7	SP606	309508	JPN	d	H1
SP578	309483	JPN	b	H7	SP607	258288	PER	d	H1
SP579	309484	PRK	b	H4	SP608	309509	JPN	d	H1
SP580	309485	JPN	d	H20	SP609	309510	JPN	d	H1
SP582	309486	KOR	b	H4	SP610	309511	JPN	b	H29
SP583	309487	JPN	b	H4	SP611	309512	JPN	b	H4
SP584	309488	JPN	b	H4	SP612	309514	JPN	d	H1
SP585	309489	CHN	b	H29	SP613	309515	NZE	d	H1
SP586	258286	PER	e	H17	SP614	309517	NZE	d	H1
SP587	309490	JPN	d	H1	SP615	309518	NZE	d	H1

G, Group of Factor analysis; H, haplotypes, PH, private haplotype