

Table S1: ecotype-IDs of the structured regmap.

Accession information was taken from the Bergelson lab (http://bergelson.uchicago.edu/Members/mhorton/resources/snps/accession_coordinates.xls). The following table contains geographic information for 242 of the 250 accessions from our structured regmap. Geographic information was not available for eight accessions: 6909, 8428, 5712, 6143, 5708, 5730, 5829 and 8254. Accessions were selected based on the variance of the off-diagonal kinship coefficients of each row: the accessions corresponding to the rows with the 250 highest variances were chosen.

country	number of accessions
Czech Republic	7
Finland	2
France	2
Ireland	2
Sweden	83
Tajikistan	3
United Kingdom	40
United States of America	103
unknown	8

ecotype-id	country	latitude	longitude	population	native-name
1716	United States of America	42.405	-85.398	Americas	KBS-Mac-8
1718	United States of America	42.405	-85.398	Americas	KBS-Mac-15
1719	United States of America	42.405	-85.398	Americas	KBS-Mac-16
1722	United States of America	42.405	-85.398	Americas	KBS-Mac-23
1724	United States of America	42.405	-85.398	Americas	KBS-Mac-28
1726	United States of America	42.405	-85.398	Americas	KBS-Mac-33
1729	United States of America	42.405	-85.398	Americas	KBS-Mac-41
1730	United States of America	42.405	-85.398	Americas	KBS-Mac-43
1733	United States of America	42.405	-85.398	Americas	KBS-Mac-53
1736	United States of America	42.405	-85.398	Americas	KBS-Mac-58
1738	United States of America	42.405	-85.398	Americas	KBS-Mac-64
1740	United States of America	42.405	-85.398	Americas	KBS-Mac-72
1743	United States of America	42.405	-85.398	Americas	KBS-Mac-75
1744	United States of America	42.405	-85.398	Americas	KBS-Mac-76
1745	United States of America	42.405	-85.398	Americas	KBS-Mac-78
1749	United States of America	42.405	-85.398	Americas	KBS-Mac-88
1750	United States of America	42.405	-85.398	Americas	KBS-Mac-89
1751	United States of America	42.405	-85.398	Americas	KBS-Mac-91
1752	United States of America	42.405	-85.398	Americas	KBS-Mac-95
1753	United States of America	42.405	-85.398	Americas	KBS-Mac-96
1782	United States of America	42.184	-86.358	Americas	Ker-38
1829	United States of America	42.051	-86.509	Americas	Mdn-1
1850	United States of America	43.595	-86.2657	Americas	MNF-Pot-8
1853	United States of America	43.595	-86.2657	Americas	MNF-Pot-21
1858	United States of America	43.595	-86.2657	Americas	MNF-Pot-47
1864	United States of America	43.595	-86.2657	Americas	MNF-Pot-60
1871	United States of America	43.595	-86.2657	Americas	MNF-Pot-76
1872	United States of America	43.595	-86.2657	Americas	MNF-Pot-75
1873	United States of America	43.595	-86.2657	Americas	MNF-Pot-79
1874	United States of America	43.595	-86.2657	Americas	MNF-Pot-80
1938	United States of America	43.5251	-86.1843	Americas	MNF-Che-41
1941	United States of America	43.5251	-86.1843	Americas	MNF-Che-45
1948	United States of America	43.5251	-86.1843	Americas	MNF-Che-58

1960	United States of America	43.5187	-86.1739	Americas	MNF-Jac-22
1963	United States of America	43.5187	-86.1739	Americas	MNF-Jac-26
2057	United States of America	42.166	-86.412	Americas	Map-42
2148	United States of America	42.148	-86.431	Americas	Paw-1
2150	United States of America	42.148	-86.431	Americas	Paw-3
2157	United States of America	42.148	-86.431	Americas	Paw-11
2160	United States of America	42.148	-86.431	Americas	Paw-14
2180	United States of America	42.148	-86.431	Americas	Paw-40
2201	United States of America	43.7623	-86.3929	Americas	Pent-22
2204	United States of America	43.7623	-86.3929	Americas	Pent-30
2214	United States of America	43.7623	-86.3929	Americas	Pent-49
2274	United States of America	43.665	-86.496	Americas	SLSP-30
2280	United States of America	43.665	-86.496	Americas	SLSP-58
2294	United States of America	42.03	-86.514	Americas	Ste-9
2300	United States of America	42.03	-86.514	Americas	Ste-15
6927	United States of America	41.2816	-86.621	Americas	Kno-10
6983	United States of America	37.45	-119.35	Americas	Yo-0
7033	United States of America	41.3599	-122.755	Americas	Buckhorn Pass
7515	United States of America	41.5609	-86.4251	Americas	RRS-10
7523	United States of America	42.0945	-86.3253	Americas	Pna-17
7524	United States of America	42.036	-86.511	Americas	Rmx-A02
7525	United States of America	42.036	-86.511	Americas	Rmx-A180
7526	United States of America	42.0945	-86.3253	Americas	Pna-10
7566	United States of America	42.093	-86.359	Americas	627ME-13Y1
7578	United States of America	42.0945	-86.3253	Americas	627PNA-1Y1
7580	United States of America	42.0945	-86.3253	Americas	627PNA-2B3
7584	United States of America	42.0945	-86.3253	Americas	627PNA-3M4
7787	United States of America	41.273	-86.625	Americas	KNO2.77
7837	United States of America	42.093	-86.359	Americas	ME3.41
7847	United States of America	42.093	-86.359	Americas	ME3.51
7867	United States of America	42.093	-86.359	Americas	ME4.20
8122	United States of America	42.036	-86.511	Americas	RMX3.11
8233	United States of America	41.1876	-87.1923	Americas	Dem-4
8557	United States of America	42.093	-86.359	Americas	328ME032
8612	United States of America	42.093	-86.359	Americas	11ME1.34
8616	United States of America	42.093	-86.359	Americas	11ME1.41
8619	United States of America	42.093	-86.359	Americas	11ME1.44
8629	United States of America	42.093	-86.359	Americas	11ME2.10
8673	United States of America	42.0945	-86.3253	Americas	328PNA032
8724	United States of America	42.0945	-86.3253	Americas	11PNA1.15
8725	United States of America	42.0945	-86.3253	Americas	11PNA1.4
8727	United States of America	42.0945	-86.3253	Americas	11PNA1.6
8730	United States of America	42.0945	-86.3253	Americas	11PNA1.9
8760	United States of America	42.0945	-86.3253	Americas	11PNA3.19
8770	United States of America	42.0945	-86.3253	Americas	11PNA3.65
8777	United States of America	42.0945	-86.3253	Americas	11PNA3.75
8787	United States of America	42.0945	-86.3253	Americas	11PNA3.86
8796	United States of America	42.0945	-86.3253	Americas	11PNA4.101
8824	United States of America	42.0945	-86.3253	Americas	11PNA4.129
8954	United States of America	42.036	-86.511	Americas	RMX413.1
8961	United States of America	42.036	-86.511	Americas	RMX413.16
8965	United States of America	42.036	-86.511	Americas	RMX413.2
8966	United States of America	42.036	-86.511	Americas	RMX413.20
8967	United States of America	42.036	-86.511	Americas	RMX413.21
8969	United States of America	42.036	-86.511	Americas	RMX413.24
8970	United States of America	42.036	-86.511	Americas	RMX413.25
8973	United States of America	42.036	-86.511	Americas	RMX413.29

8975	United States of America	42.036	-86.511	Americas	RMX413.30
8976	United States of America	42.036	-86.511	Americas	RMX413.31
8977	United States of America	42.036	-86.511	Americas	RMX413.32
8992	United States of America	42.036	-86.511	Americas	RMX413.48
8996	United States of America	42.036	-86.511	Americas	RMX413.51
9001	United States of America	42.036	-86.511	Americas	RMX413.57
9004	United States of America	42.036	-86.511	Americas	RMX413.6
9006	United States of America	42.036	-86.511	Americas	RMX413.62
9007	United States of America	42.036	-86.511	Americas	RMX413.63
9012	United States of America	42.036	-86.511	Americas	RMX413.7
9041	United States of America	42.039	-86.5154	Americas	RMXF413.10
9045	United States of America	42.039	-86.5154	Americas	RMXF413.15
9053	United States of America	42.039	-86.5154	Americas	RMXF413.6
5991	Czech Republic	49.4112	16.2815	Austria-Hungary	DraIV 6-20
5997	Czech Republic	49.4112	16.2815	Austria-Hungary	DraIV 6-27
6427	Czech Republic	49.3853	16.2544	Austria-Hungary	ZdrI 2-1
6435	Czech Republic	49.3853	16.2544	Austria-Hungary	ZdrI 2-10
6444	Czech Republic	49.3853	16.2544	Austria-Hungary	ZdrI 2-20
6903	Czech Republic	49.4013	16.2326	Austria-Hungary	Bor-4
7461	Czech Republic	49	15	Austria-Hungary	H55
4632	United Kingdom	50.4	-4.7	British-Isles	UKSW06-025
4675	United Kingdom	50.4	-4.7	British-Isles	UKSW06-070
4862	United Kingdom	50.3	-4.9	British-Isles	UKSW06-262
5106	United Kingdom	51.3	0.5	British-Isles	UKSE06-254
5133	United Kingdom	52.2	-1.7	British-Isles	UKSE06-302
5207	United Kingdom	51.3	0.4	British-Isles	UKSE06-429
5232	United Kingdom	51.2	0.4	British-Isles	UKSE06-466
5292	United Kingdom	51.3	1.1	British-Isles	UKSE06-556
5331	United Kingdom	51.1	0.4	British-Isles	UKSE06-618
5341	United Kingdom	51.1	0.4	British-Isles	UKSE06-628
5380	United Kingdom	54.4	-3	British-Isles	UKNW06-059
5381	United Kingdom	54.4	-3	British-Isles	UKNW06-060
5385	United Kingdom	54.4	-3	British-Isles	UKNW06-078
5469	United Kingdom	54.4	-3	British-Isles	UKNW06-210
5582	United Kingdom	54.7	-3.4	British-Isles	UKNW06-410
5678	United Kingdom	54.6	-3.1	British-Isles	UKNW99-025
5709	United Kingdom	54.6	-2.6	British-Isles	UKID2
5719	Ireland	54.1335	-6.1667	British-Isles	Bur-0
5720	United Kingdom	53.3	-1.6	British-Isles	Cal-2
5723	United Kingdom	51.3	1	British-Isles	Chr-1
5724	United Kingdom	51.4	0.1	British-Isles	UKID17
5731	United Kingdom	54.9	-2.9	British-Isles	CrI-1
5732	United Kingdom	54.9	-2.9	British-Isles	UKID25
5737	United Kingdom	51.3	0.1	British-Isles	UKID32
5758	United Kingdom	50.3	-5.2	British-Isles	UKID53
5774	United Kingdom	51.1	0.6	British-Isles	Sis-1
5780	United Kingdom	53.1	-1	British-Isles	UKID75
5788	United Kingdom	50.8	-2	British-Isles	UKID83
5792	United Kingdom	50.8	-0.7	British-Isles	UKID87
5793	United Kingdom	51.3	0.6	British-Isles	UKID88
5798	United Kingdom	53.1	-3.3	British-Isles	UKID93
5804	United Kingdom	50.8	-1.1	British-Isles	UKID100
5807	United Kingdom	51.8	-0.5	British-Isles	UKID103
6905	Ireland	54.1	-6.2	British-Isles	Bur-0
6923	United Kingdom	51.4083	-0.6383	British-Isles	HR-10
6924	United Kingdom	51.4083	-0.6383	British-Isles	HR-5
6944	United Kingdom	51.4083	-0.6383	British-Isles	NFA-8

7064	United Kingdom	51.3	1.1	British-Isles	Cnt-1
7109	United Kingdom	51.3	0.5	British-Isles	Ema-1
7483	United Kingdom	51.2878	0.0565	British-Isles	PHW-14
9490	United Kingdom	55.9218	-3.17108	British-Isles	02B6
9504	United Kingdom	55.8877	-3.16377	British-Isles	12A1
6929	Tajikistan	38.48	68.49	Eastern-Range	Kondara
6962	Tajikistan	38.35	68.48	Eastern-Range	Shahdara
7168	Tajikistan	38.48	68.49	Eastern-Range	Hodja-Obi-Garm
1247	Sweden	59.4333	17.0167	Fennoscandia	Tos-31-374
1254	Sweden	59.4333	17.0167	Fennoscandia	Tos-82-387
1409	Sweden	62.8	18.2	Fennoscandia	Rd-38
1416	Sweden	62.8	18.2	Fennoscandia	Rd-45
1435	Sweden	62.8	18.2	Fennoscandia	Rd-17-319
1552	Sweden	63.0833	18.3667	Fennoscandia	Sku-30
5835	Sweden	63.324	18.484	Fennoscandia	Bil-3
5856	Sweden	63.0167	17.4914	Fennoscandia	Dr-10
5860	Sweden	62.6814	18.0165	Fennoscandia	Dra-3
6009	Sweden	62.877	18.177	Fennoscandia	Eden-1
6010	Sweden	62.877	18.177	Fennoscandia	Eden-5
6011	Sweden	62.877	18.177	Fennoscandia	Eden-6
6012	Sweden	62.877	18.177	Fennoscandia	Eden-7
6013	Sweden	62.877	18.177	Fennoscandia	Eden-9
6016	Sweden	62.9	18.4	Fennoscandia	Eds-1
6017	Sweden	62.9	18.4	Fennoscandia	Eds-9
6024	Sweden	55.7509	13.3712	Fennoscandia	Fly2-2
6025	Sweden	62.6437	17.7339	Fennoscandia	Gro-3
6030	Sweden	62.806	18.1896	Fennoscandia	Grn-5
6043	Sweden	62.801	18.079	Fennoscandia	Lv-1
6046	Sweden	62.801	18.079	Fennoscandia	Lv-5
6064	Sweden	62.9513	18.2763	Fennoscandia	Nyl-2
6069	Sweden	62.9513	18.2763	Fennoscandia	Nyl-7
6071	Sweden	62.9308	18.3448	Fennoscandia	Omn-5
6077	Sweden	55.6942	13.4504	Fennoscandia	Rev-3
6091	Sweden	55.6525	13.215	Fennoscandia	T1010
6104	Sweden	55.7	13.2	Fennoscandia	T1160
6118	Sweden	55.7	13.2	Fennoscandia	T610
6154	Sweden	62.6422	17.7406	Fennoscandia	TAA 04
6163	Sweden	62.6425	17.7356	Fennoscandia	TAA 14
6166	Sweden	62.6425	17.7372	Fennoscandia	TAA 17
6169	Sweden	62.8714	18.3447	Fennoscandia	TD 01
6170	Sweden	62.8717	18.3442	Fennoscandia	TD 02
6171	Sweden	62.8717	18.3444	Fennoscandia	TD 03
6172	Sweden	62.8717	18.3436	Fennoscandia	TD 04
6173	Sweden	62.8717	18.3419	Fennoscandia	TD 05
6174	Sweden	62.8719	18.3422	Fennoscandia	TD 06
6177	Sweden	62.6322	17.69	Fennoscandia	TL 03
6180	Sweden	62.6322	17.6906	Fennoscandia	TL 07
6184	Sweden	62.8892	18.4522	Fennoscandia	TB 01
6209	Sweden	62.8836	18.1842	Fennoscandia	TEDEN 02
6210	Sweden	62.8839	18.1836	Fennoscandia	TEDEN 03
6212	Sweden	63.0175	18.3239	Fennoscandia	TF 02
6214	Sweden	63.0175	18.3281	Fennoscandia	TF 04
6215	Sweden	63.0172	18.3281	Fennoscandia	TF 05
6216	Sweden	63.0167	18.3283	Fennoscandia	TF 06
6217	Sweden	63.0169	18.3283	Fennoscandia	TF 07
6218	Sweden	63.0172	18.3283	Fennoscandia	TF 08
6220	Sweden	62.806	18.1896	Fennoscandia	TGR 01

6221	Sweden	62.806	18.1896	Fennoscandia	TGR 02
6226	Sweden	62.7994	17.9033	Fennoscandia	TH 08
6231	Sweden	62.96	18.2844	Fennoscandia	TNY 04
6235	Sweden	62.9611	18.3589	Fennoscandia	TOM 01
6236	Sweden	62.9617	18.36	Fennoscandia	TOM 02
6237	Sweden	62.9619	18.35	Fennoscandia	TOM 03
6238	Sweden	62.9619	18.35	Fennoscandia	TOM 04
6240	Sweden	62.9622	18.35	Fennoscandia	TOM 06
6241	Sweden	62.9614	18.3608	Fennoscandia	TOM 07
6244	Sweden	62.9169	18.4728	Fennoscandia	TR 01
6900	Sweden	63.324	18.484	Fennoscandia	Bil-5
6901	Sweden	63.324	18.484	Fennoscandia	Bil-7
6913	Sweden	62.877	18.177	Fennoscandia	Eden-2
6917	Sweden	63.0165	18.3174	Fennoscandia	Fb-2
6918	Sweden	63.0165	18.3174	Fennoscandia	Fb-4
6968	Finland	60	23.5	Fennoscandia	Tamm-2
6969	Finland	60	23.5	Fennoscandia	Tamm-27
8218	Sweden	62.877	18.177	Fennoscandia	Eden-4
8227	Sweden	62.7989	17.9103	Fennoscandia	TH 03
8335	Sweden	55.71	13.2	Fennoscandia	Lund
8376	Sweden	62.69	18	Fennoscandia	Sanna-2
9321	Sweden	62.8622	18.336	Fennoscandia	dal 1
9323	Sweden	62.8622	18.336	Fennoscandia	dal 3
9332	Sweden	62.8698	18.381	Fennoscandia	Bar 1
9354	Sweden	62.8762	18.1746	Fennoscandia	Eden 15
9355	Sweden	62.8762	18.1746	Fennoscandia	Eden 16
9356	Sweden	62.8762	18.1746	Fennoscandia	Eden 17
9363	Sweden	62.9147	18.4045	Fennoscandia	EdJ 2
9371	Sweden	63.016	18.3175	Fennoscandia	FL 1
9378	Sweden	63.0165	18.3174	Fennoscandia	FU 4
9386	Sweden	62.806	18.1896	Fennoscandia	Grn 12
9388	Sweden	62.806	18.1896	Fennoscandia	Grn 14
9427	Sweden	62.8815	18.4055	Fennoscandia	Ns 2
9433	Sweden	62.9513	18.2763	Fennoscandia	Nyl 13
9434	Sweden	62.8959	18.3659	Fennoscandia	de 2
9471	Sweden	56.0648	13.9707	Fennoscandia	Ulla 1
171	France	47.3833	5.31667	France	MIB-20
228	France	47.3833	5.31667	France	MIB-9