

**Table A.** Sampling information. Population numbers correspond to Figure 1 and are used throughout the text. The "Complete" data set has no missing data for any locus (see text), and is identified using check marks. MtDNA haplotypes were uploaded to GenBank as an alignment; check marks identify the loci included for each individual. All specimens are *Plethodon kentucki*, except for the last four specimens, which are *Plethodon glutinosus* and were used as outgroups some analyses.

Pop	Specimen	Locality	County	State	Latitude	Longitude	Complete	mtDNA	CytB	ND2	tRNA-trp	tRNA-ala	BFI	GAPD	MLC2A	ILF3	RAG-1
1	SRK3022	Point Pleasant	Mason	WV	38.8196	-82.1611	-	KU840930	✓	✓	✓	✓	KU841067	KU841144	KU841294	-	-
1	SRK3023	Point Pleasant	Mason	WV	38.8196	-82.1611	-	KU840931	✓	✓	✓	✓	KU841068	KU841145	KU841295	-	-
2	RH65589	Henderson	Mason	WV	38.8219	-82.1558	✓	KU840999	✓	✓	✓	✓	KU841110	KU841186	KU841333	KU841247	KU841409
2	RH65590	Henderson	Mason	WV	38.8219	-82.1558	✓	KU841000	✓	✓	✓	✓	KU841111	KU841187	KU841334	KU841256	KU841410
2	RH65591	Henderson	Mason	WV	38.8219	-82.1558	-	KU841001	✓	-	-	-	-	-	KU841335	-	-
3	RH65666	Union Ridge Road	Cabell	WV	38.5772	-82.2275	✓	KU841002	✓	✓	✓	✓	KU841112	KU841188	KU841336	KU841266	KU841411
3	RH65667	Union Ridge Road	Cabell	WV	38.5772	-82.2275	✓	KU841003	✓	✓	✓	✓	KU841113	KU841189	KU841337	KU841261	KU841412
3	RH65668	Union Ridge Road	Cabell	WV	38.5772	-82.2275	-	KU841004	✓	-	-	-	-	-	KU841338	-	-
4	RH53378	Huntington	Cabell	WV	38.4019	-82.4367	✓	KU840956	✓	✓	✓	✓	KU841080	KU841156	KU841305	KU841222	KU841379
4	RH53379	Huntington	Cabell	WV	38.4019	-82.4367	✓	KU840957	✓	✓	✓	✓	KU841081	KU841157	KU841306	KU841270	KU841380
5	RH52628	3.5 km SSW of Virgie	Pike	KY	37.3064	-82.5972	✓	KU840938	✓	✓	✓	✓	KU841072	KU841149	KU841299	KU841264	KU841372
5	RH52629	3.5 km SSW of Virgie	Pike	KY	37.3064	-82.5972	✓	KU840939	✓	✓	✓	✓	KU841073	KU841150	KU841300	KU841263	KU841373
5	RH52631	3.5 km SSW of Virgie	Pike	KY	37.3064	-82.5972	-	KU840940	✓	-	-	-	-	-	-	-	-
5	RH52632	3.5 km SSW of Virgie	Pike	KY	37.3064	-82.5972	-	KU840941	✓	-	-	-	-	-	-	-	-
5	RH54238	3.5 km SSW of Virgie	Pike	KY	37.3064	-82.5972	-	KU840962	✓	-	-	-	-	-	-	-	-
6	RH79575	North Fork Road	Wise	VA	37.0817	-82.7036	✓	KU841060	✓	✓	✓	✓	KU841141	KU841217	KU841364	KU841225	KU841438
7	RH53307	1.5 km NE of Pound Gap	Letcher	KY	37.1658	-82.6250	✓	KU840953	✓	✓	✓	✓	KU841078	KU841155	KU841304	KU841244	KU841378
7	RH53308	1.5 km NE of Pound Gap	Letcher	KY	37.1658	-82.6250	-	KU840954	✓	-	-	-	KU841079	-	-	-	-
7	RH53309	1.5 km NE of Pound Gap	Letcher	KY	37.1658	-82.6250	-	KU840955	✓	-	-	-	-	-	-	-	-
7	RH54812	1.5 km NE of Pound Gap	Letcher	KY	37.1658	-82.6250	✓	KU840963	✓	✓	✓	✓	KU841085	KU841161	KU841308	KU841274	KU841384
7	RH54813	1.5 km NE of Pound Gap	Letcher	KY	37.1658	-82.6250	-	KU840964	✓	✓	-	-	-	-	-	-	-
8	RH55951	Pound Mountain Tower	Wise	VA	37.1528	-82.6428	✓	KU840967	✓	✓	✓	✓	KU841088	KU841164	KU841311	KU841268	KU841387
9	RH78206	Pound Gap	Letcher	KY	37.1553	-82.6336	✓	KU841048	✓	✓	✓	✓	KU841135	KU841210	KU841359	KU841254	KU841432
9	RH78479	Pound Gap	Letcher	KY	37.1553	-82.6336	✓	KU841056	✓	✓	✓	-	KU841140	KU841215	KU841363	KU841259	KU841437
10	RH60245	Oscalosa	Letcher	KY	37.0967	-82.8908	✓	KU840981	✓	✓	✓	✓	KU841097	KU841173	KU841320	KU841221	KU841396
10	RH60246	Oscalosa	Letcher	KY	37.0967	-82.8908	✓	KU840982	✓	✓	✓	✓	KU841098	KU841174	KU841321	KU841223	KU841397
11	RH77587	3 miles E Scuttlehole Gap	Letcher	KY	37.0667	-82.8250	✓	KU841023	✓	✓	✓	✓	KU841124	KU841199	KU841347	KU841235	KU841421
11	RH77588	3 miles E Scuttlehole Gap	Letcher	KY	37.0667	-82.8250	✓	KU841024	✓	✓	✓	✓	KU841125	KU841200	KU841348	KU841265	KU841422
11	RH77589	3 miles E Scuttlehole Gap	Letcher	KY	37.0667	-82.8250	-	KU841025	✓	✓	-	-	-	-	-	-	-
11	RH78157	4 miles E Scuttlehole Gap	Letcher	KY	37.0667	-82.8250	-	KU841038	✓	-	-	-	-	-	KU841355	-	-
11	RH78158	5 miles E Scuttlehole Gap	Letcher	KY	37.0667	-82.8250	-	KU841039	✓	-	-	-	-	-	-	-	-
12	RH77616	Scuttlehole Gap	Letcher	KY	37.0536	-82.8575	✓	KU841036	✓	✓	✓	✓	KU841130	KU841205	KU841353	KU841224	KU841427
12	RH77617	Scuttlehole Gap	Letcher	KY	37.0536	-82.8575	✓	KU841037	✓	✓	✓	✓	KU841131	KU841206	KU841354	KU841236	KU841428
12	RH78481	Scuttlehole Gap	Letcher	KY	37.0536	-82.8575	-	KU841057	✓	-	-	-	-	-	-	-	-
13	RH78215	Near Flat Gap	Dickenson	VA	37.2333	-82.4658	✓	KU841049	✓	✓	✓	✓	KU841136	KU841211	KU841360	KU841283	KU841433
13	RH78216	Near Flat Gap	Dickenson	VA	37.2333	-82.4658	✓	KU841050	✓	✓	✓	✓	KU841137	KU841212	KU841361	KU841285	KU841434
13	RH78490	Near Flat Gap	Dickenson	VA	37.2333	-82.4658	-	KU841058	✓	-	-	-	-	KU841216	-	-	-
13	RH78491	Near Flat Gap	Dickenson	VA	37.2333	-82.4658	-	KU841059	✓	-	-	-	-	-	-	-	-
14	RH77591	West Garrett	Floyd	KY	37.4833	-82.8311	✓	KU841026	✓	✓	✓	✓	KU841126	KU841201	KU841349	KU841231	KU841423
14	RH77592	West Garrett	Floyd	KY	37.4833	-82.8311	-	KU841027	✓	-	-	-	-	-	-	-	-
14	RH77593	West Garrett	Floyd	KY	37.4833	-82.8311	-	KU841028	✓	-	-	-	-	-	-	-	-
14	RH77595	West Garrett	Floyd	KY	37.4833	-82.8311	✓	KU841029	✓	✓	✓	✓	KU841127	KU841202	KU841350	KU841257	KU841424
14	RH77596	West Garrett	Floyd	KY	37.4833	-82.8311	-	KU841030	✓	-	-	-	-	-	-	-	-
15	SRK3197	Kanawha State Forest Site 6	Kanawha	WV	38.1411	-82.0439	✓	KU840932	✓	✓	✓	✓	KU841069	KU841146	KU841296	KU841262	KU841369
16	RH55651	Cabwaylingo State Forest	Wayne	WV	37.9906	-82.3503	✓	KU840965	✓	✓	✓	✓	KU841086	KU841162	KU841309	KU841260	KU841385
16	RH55652	Cabwaylingo State Forest	Wayne	WV	37.9906	-82.3503	✓	KU840966	✓	✓	✓	✓	KU841087	KU841163	KU841310	KU841258	KU841386
16	RH70763	Cabwaylingo State Forest	Wayne	WV	37.9906	-82.3503	-	KU841017	✓	-	-	-	-	-	-	-	-
17	SRK3203	Mill Cr. Wildlife Management Area	Cabell	WV	38.4951	-82.1151	✓	KU841062	✓	✓	✓	✓	KU841142	KU841218	KU841367	KU841291	KU841440
17	SRK3204	Mill Cr. Wildlife Management Area	Cabell	WV	38.4951	-82.1151	-	KU841063	✓	✓	✓	✓	-	KU841219	KU841368	KU841292	KU841441
18	SRK3199	Beech Fork State Park	Cabell	WV	38.3138	-82.3387	-	KU841061	✓	✓	✓	✓	-	-	KU841366	KU841290	KU841439



Pop	Specimen	Locality	County	State	Latitude	Longitude	Complete	mtDNA	CytB	ND2	tRNA-trp	tRNA-ala	BFI	GAPD	MLC2A	ILF3	RAG-1
36	RH70699	Near Middle Knob	Washington	VA	36.8689	-81.9722	✓	KU841016	✓	✓	✓	✓	KU841119	KU841195	KU841344	KU841279	KU841418
37	RH51859	Big Black Mountain	Harlan	KY	36.9175	-82.9011	✓	KU840933	✓	✓	✓	✓	KU841070	KU841147	KU841297	KU841226	KU841370
37	RH51866	Big Black Mountain	Harlan	KY	36.9175	-82.9011	✓	KU840934	✓	✓	✓	✓	KU841071	KU841148	KU841298	KU841227	KU841371
37	RH51868	Big Black Mountain	Harlan	KY	36.9175	-82.9011	-	KU840935	✓	-	-	-	-	-	-	-	-
37	RH51870	Big Black Mountain	Harlan	KY	36.9175	-82.9011	-	KU840936	✓	-	-	-	-	-	-	-	-
37	RH51871	Big Black Mountain	Harlan	KY	36.9175	-82.9011	-	KU840937	✓	-	-	-	-	-	-	-	-
38	RH52769	High Knob	Wise	VA	36.8950	-82.6328	✓	KU840947	✓	✓	✓	✓	KU841076	KU841153	KU841303	KU841269	KU841376
38	RH52770	High Knob	Wise	VA	36.8950	-82.6328	-	KU840948	-	✓	✓	✓	-	-	-	-	-
38	RH52779	High Knob	Wise	VA	36.8950	-82.6328	-	KU840949	✓	-	-	-	-	-	-	-	-
38	RH52780	High Knob	Wise	VA	36.8950	-82.6328	✓	KU840950	✓	✓	✓	✓	KU841077	KU841154	KU863658	KU841252	KU841377
38	RH52783	High Knob	Wise	VA	36.8950	-82.6328	-	KU840951	✓	-	-	-	-	-	-	-	-
38	RH52784	High Knob	Wise	VA	36.8950	-82.6328	-	KU840952	✓	-	-	-	-	-	-	-	-
38	RH74950	High Knob	Wise	VA	36.8950	-82.6328	-	-	-	AY875027	AY875027	AY875027	-	-	-	-	-
39	RH64610	Harlan	Harlan	KY	36.8278	-83.3094	✓	KU840993	✓	✓	-	-	KU841106	KU841182	KU841329	KU841220	KU841405
39	RH64611	Harlan	Harlan	KY	36.8278	-83.3094	-	KU840994	✓	✓	✓	✓	KU841107	KU841183	KU841330	-	KU841406
40	RH54117	Bear Wallow Gap	Bell	KY	36.7439	-83.7442	✓	KU840959	✓	✓	✓	✓	KU841083	KU841159	KU863659	KU841246	KU841382
40	RH54118	Bear Wallow Gap	Bell	KY	36.7439	-83.7442	✓	KU840960	✓	✓	✓	✓	KU841084	KU841160	KU863660	KU841245	KU841383
40	RH54119	Bear Wallow Gap	Bell	KY	36.7439	-83.7442	-	KU840961	✓	-	-	-	-	-	-	-	-
40	RH78194	Bear Wallow Gap	Bell	KY	36.7439	-83.7442	-	KU841045	✓	-	-	-	-	-	-	-	-
40	RH78195	Bear Wallow Gap	Bell	KY	36.7439	-83.7442	-	KU841046	✓	-	-	-	-	-	-	-	-
41	RH64622	Log Mtn; 5.5 km SSW of Frenchburg	Bell	KY	36.6489	-83.8494	✓	KU840995	✓	✓	✓	✓	KU841108	KU841184	KU841331	KU841230	KU841407
41	RH64623	Log Mtn; 5.5 km SSW of Frenchburg	Bell	KY	36.6489	-83.8494	✓	KU840996	✓	✓	✓	✓	KU841109	KU841185	KU841332	KU841280	KU841408
41	RH64625	Log Mtn; 5.5 km SSW of Frenchburg	Bell	KY	36.6489	-83.8494	-	KU840997	✓	✓	✓	-	-	-	-	-	-
41	RH64627	Log Mtn; 5.5 km SSW of Frenchburg	Bell	KY	36.6489	-83.8494	-	KU840998	✓	-	-	-	-	-	-	-	-
41	RH66693	Log Mtn; 5.5 km SSW of Frenchburg	Bell	KY	36.6481	-83.8494	-	-	DQ994948	-	-	-	-	JN798240	JN798331	JN798279	DQ995033
41	RH75685	Log Mtn; 5.5 km SSW of Frenchburg	Bell	KY	36.6481	-83.8494	-	KU841018	✓	✓	✓	✓	KU841120	KU841196	-	-	-
41	RH75690	Log Mtn; 5.5 km SSW of Frenchburg	Bell	KY	36.6481	-83.8494	-	KU841019	-	✓	✓	✓	KU841121	-	-	-	-
42	RH63677	Ketchen	Scott	TN	36.5764	-84.3072	✓	KU840992	✓	✓	✓	✓	KU841105	KU841181	KU841328	KU841287	KU841404
43	RH77607	Limestone Cave	Whitley	KY	36.6108	-84.0189	✓	KU841031	✓	✓	✓	✓	KU841128	KU841203	KU841351	KU841243	KU841425
43	RH77608	Limestone Cave	Whitley	KY	36.6108	-84.0189	✓	KU841032	✓	✓	✓	✓	KU841129	KU841204	KU841352	KU841289	KU841426
43	RH77609	Limestone Cave	Whitley	KY	36.6108	-84.0189	-	KU841033	✓	✓	✓	-	-	-	-	-	-
43	RH77610	Limestone Cave	Whitley	KY	36.6108	-84.0189	-	KU841034	✓	-	-	-	-	-	-	-	-
43	RH77611	Limestone Cave	Whitley	KY	36.6108	-84.0189	-	KU841035	✓	-	-	-	-	-	-	-	-
-	RH70700	Near Middle Knob	Washington	VA	36.8689	-81.9722	-	KU840926	✓	✓	✓	✓	-	KU841143	-	-	-
-	RH70701	Near Middle Knob	Washington	VA	36.8689	-81.9722	-	KU840927	✓	✓	✓	✓	KU841064	-	KU841293	-	-
-	RH70702	Near Middle Knob	Washington	VA	36.8689	-81.9722	-	KU840928	✓	✓	✓	✓	KU841065	-	-	-	-
-	RH70703	Near Middle Knob	Washington	VA	36.8689	-81.9722	-	KU840929	✓	✓	✓	✓	KU841066	-	-	-	-