

Supplementary Table 1: Snake sampling and tissue use.

Species	Genotype	Snake ID	Transient	Tetanus	County	State	Latitude	Longitude
<i>Thamnophis atratus</i>	ancestral	CRF3359	Yes	No	Del Norte	California	41.8216	-124.1041
<i>Thamnophis atratus</i>	ancestral	CRF3613	Yes	Yes	Shasta	California	41.1571	-122.0925
<i>Thamnophis atratus</i>	ancestral	CRF3614	Yes	Yes	Shasta	California	41.1571	-122.0925
<i>Thamnophis atratus</i>	ancestral	CRF3615	Yes	Yes	Shasta	California	41.1571	-122.0925
<i>Thamnophis atratus</i>	ancestral	CRF3605	Yes	Yes	Siskiyou	California	41.2504	-121.9444
<i>Thamnophis atratus</i>	ancestral	CRF3606	Yes	Yes	Siskiyou	California	41.2504	-121.9444
<i>Thamnophis atratus</i>	ancestral	CRF3607	Yes	Yes	Siskiyou	California	41.2504	-121.9444
<i>Thamnophis atratus</i>	ancestral	CRF3608	Yes	Yes	Siskiyou	California	41.2504	-121.9444
<i>Thamnophis atratus</i>	ancestral	CRF3609	Yes	Yes	Siskiyou	California	41.2504	-121.9444
<i>Thamnophis atratus</i>	ancestral	CRF3610	Yes	Yes	Siskiyou	California	41.2504	-121.9444
<i>Thamnophis atratus</i>	ancestral	CRF3611	Yes	Yes	Siskiyou	California	41.2504	-121.9444
<i>Thamnophis atratus</i>	ancestral	CRF3617	Yes	Yes	Siskiyou	California	41.2301	-122.3825
<i>Thamnophis atratus</i>	ancestral	CRF3618	Yes	Yes	Siskiyou	California	41.2301	-122.3825
<i>Thamnophis atratus</i>	ancestral	CRF3619	Yes	Yes	Siskiyou	California	41.2301	-122.3825
<i>Thamnophis atratus</i>	ancestral	CRF3620	Yes	Yes	Siskiyou	California	41.2301	-122.3825
<i>Thamnophis atratus</i>	ancestral	CRF3621	Yes	Yes	Siskiyou	California	41.2301	-122.3825
<i>Thamnophis atratus</i>	EPN	EJE125	Yes	Yes	Alameda	California	36.4528	-121.5122
<i>Thamnophis atratus</i>	EPN	EJE126	Yes	Yes	Alameda	California	36.4344	-121.5111
<i>Thamnophis atratus</i>	EPN	CRF3106	Yes	Yes	Santa Cruz	California	37.0407	-122.2288
<i>Thamnophis atratus</i>	EPN	CRF3107	Yes	Yes	Santa Cruz	California	37.0407	-122.2288
<i>Thamnophis atratus</i>	EPN	CRF3109	Yes	Yes	Santa Cruz	California	37.0963	-122.2777
<i>Thamnophis atratus</i>	EPN	CRF3111	Yes	Yes	Santa Cruz	California	37.0963	-122.2777
<i>Thamnophis atratus</i>	EPN	CRF3112	Yes	Yes	Santa Cruz	California	37.0963	-122.2777
<i>Thamnophis atratus</i>	EPN	JSR012	Yes	Yes	Santa Cruz	California	37.0419	-122.2269
<i>Thamnophis atratus</i>	EPN	JSR013	Yes	Yes	Santa Cruz	California	37.0419	-122.2269
<i>Thamnophis atratus</i>	EPN	JSR037	Yes	Yes	Santa Cruz	California	37.1339	-122.2767
<i>Thamnophis atratus</i>	EPN	CRF3110	No	Yes	Santa Cruz	California	37.0963	-122.2777
<i>Thamnophis sirtalis</i>	ancestral	CRF2458C	Yes	Yes	Captive Birth	California*	39.8966	-122.9875
<i>Thamnophis sirtalis</i>	ancestral	CRF2458D	Yes	Yes	Captive Birth	California*	39.8966	-122.9875
<i>Thamnophis sirtalis</i>	ancestral	CRF2462C	Yes	Yes	Captive Birth	California*	39.8809	-122.9917
<i>Thamnophis sirtalis</i>	ancestral	CRF2519E	Yes	Yes	Captive Birth	California*	39.3356	-120.2069
<i>Thamnophis sirtalis</i>	ancestral	CRF2523D	Yes	Yes	Captive Birth	California*	39.3356	-120.2069
<i>Thamnophis sirtalis</i>	ancestral	CRF2523G	Yes	Yes	Captive Birth	California*	39.3356	-120.2069
<i>Thamnophis sirtalis</i>	ancestral	CRF3215	Yes	No	Fresno	California	36.9345	-119.2474
<i>Thamnophis sirtalis</i>	ancestral	MTJH390	Yes	No	Humboldt	California	41.2250	-124.1052
<i>Thamnophis sirtalis</i>	ancestral	MTJH394	Yes	No	Humboldt	California	41.2250	-124.1052
<i>Thamnophis sirtalis</i>	ancestral	MTJH399	Yes	Yes	Humboldt	California	41.2250	-124.1052
<i>Thamnophis sirtalis</i>	ancestral	MTJH402	Yes	Yes	Humboldt	California	41.2250	-124.1052
<i>Thamnophis sirtalis</i>	ancestral	MTJH430	Yes	Yes	Lane	Oregon	44.2136	-123.9824
<i>Thamnophis sirtalis</i>	ancestral	CRF2459	Yes	Yes	Mendocino	California	39.8966	-122.9875
<i>Thamnophis sirtalis</i>	ancestral	MTJH381	Yes	No	Mendocino	California	39.7472	-123.6342
<i>Thamnophis sirtalis</i>	ancestral	MTJH384	Yes	No	Mendocino	California	39.7472	-123.6342
<i>Thamnophis sirtalis</i>	ancestral	Ang-Ts-2016-11	Yes	Yes	Mendocino	California	39.7472	-123.6342
<i>Thamnophis sirtalis</i>	ancestral	Ang-Ts-2016-10	Yes	Yes	Mendocino	California	39.7472	-123.6342
<i>Thamnophis sirtalis</i>	ancestral	Wills06	Yes	Yes	Mendocino	California	39.4422	-123.3526
<i>Thamnophis sirtalis</i>	ancestral	CRF2465	No	Yes	Mendocino	California	39.7252	-122.8438
<i>Thamnophis sirtalis</i>	ancestral	EJE190	Yes	Yes	Nevada	California	39.5223	-120.5750
<i>Thamnophis sirtalis</i>	ancestral	EJE191	Yes	No	Nevada	California	39.5223	-120.5750
<i>Thamnophis sirtalis</i>	ancestral	CRF2417	Yes	Yes	Placer	California	39.3155	-120.6149
<i>Thamnophis sirtalis</i>	ancestral	CRF3311	Yes	No	Sierra	California	39.6106	-120.6549
<i>Thamnophis sirtalis</i>	ancestral	CRF3041	Yes	Yes	Siskiyou	California	41.2301	-122.3825
<i>Thamnophis sirtalis</i>	LVNV	CRF2399a	No	Yes	Captive Birth	California*	38.6134	-122.4116
<i>Thamnophis sirtalis</i>	LVNV	CRF2941	Yes	Yes	Contra Costa	California	37.9255	-122.2311
<i>Thamnophis sirtalis</i>	LVNV	HOP02	Yes	No	Mendocino	California	39.0318	-123.0816
<i>Thamnophis sirtalis</i>	LVNV	Hop-Ts-2016-05	Yes	Yes	Mendocino	California	39.0318	-123.0816
<i>Thamnophis sirtalis</i>	LVNV	Hop-Ts-2016-01	Yes	Yes	Mendocino	California	39.0318	-123.0816
<i>Thamnophis sirtalis</i>	LVNV	Hop-Ts-2016-09	Yes	Yes	Mendocino	California	39.0318	-123.0816
<i>Thamnophis sirtalis</i>	LVNV	Hop-Ts-2016-03	Yes	Yes	Mendocino	California	39.0318	-123.0816
<i>Thamnophis sirtalis</i>	LVNV	Hop-Ts-2016-04	Yes	Yes	Mendocino	California	39.0318	-123.0816
<i>Thamnophis sirtalis</i>	LVNV	Hop-Ts-2016-07	Yes	Yes	Mendocino	California	39.0318	-123.0816
<i>Thamnophis sirtalis</i>	LVNV	CRF2399	Yes	Yes	Napa	California	38.6134	-122.4116
<i>Thamnophis sirtalis</i>	LVNV	CRF3275	Yes	No	Napa	California	38.7434	-122.2733
<i>Thamnophis sirtalis</i>	LVNV	REdC7	Yes	Yes	Sonoma	California	38.4100	-122.5970
Ancestral <i>Thamnophis atratus</i>		16	16	15	Del Norte, Shasta, Siskiyou	California	41.16 to 41.82 latitude, -121.94 to -124.1 longitude	
TTX-resistant <i>T. atratus</i> (EPN)		11	10	11	Alameda, Santa Cruz	California	36.43 to 37.13 latitude, -121.51 to -122.28 longitude	
Ancestral <i>Thamnophis sirtalis</i>		24	23	17	Fresno, Humboldt, Mendocino, Nevada, Placer, Sierra, Siskiyou; Captive Birth; Lane	California Oregon	36.93 to 44.21 latitude, -119.25 to -124.11 longitude	
TTX-resistant <i>T. sirtalis</i> (LVNV)		12	11	10	Mendocino, Napa, Sonoma; Captive Birth	California Captive Birth	39.03 to 37.93 latitude, -122.23 to -123.08 longitude	
$\Sigma$		63	44	38	15	2		

Note: "\*" indicates captive born snakes mother was sampled from the state recorded.

Note: Skeletal muscles were dissected from the individuals here and used to record a transient contraction and/or a sustained, tetanic contraction.