

**Supplemental Table 1: Snake sampling and tissue use. Skeletal muscles were dissected from the individuals here and used to record a transient contraction or a sustained, tetanic contraction. ("\*" indicates captive born snakes mother was sampled from the state recorded.)**

| Species                                 | Genotype  | Snake ID | Transient | Tetanus | County   | State                     |
|---|-----------|----------|-----------|---------|--|---------------------------|
| <i>Thamnophis atratus</i>               | ancestral | CRF3359  | Yes       | No      | Del Norte  | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3613  | Yes       | Yes     | Shasta   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3614  | Yes       | Yes     | Shasta   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3615  | Yes       | Yes     | Shasta   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3605  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3606  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3607  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3608  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3609  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3610  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3611  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3617  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3618  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3619  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3620  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | ancestral | CRF3621  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis atratus</i>               | EPN       | EJE125   | Yes       | Yes     | Alameda  | California                |
| <i>Thamnophis atratus</i>               | EPN       | EJE126   | Yes       | Yes     | Alameda  | California                |
| <i>Thamnophis atratus</i>               | EPN       | CRF3106  | Yes       | Yes     | Santa Cruz   | California                |
| <i>Thamnophis atratus</i>               | EPN       | CRF3107  | Yes       | Yes     | Santa Cruz   | California                |
| <i>Thamnophis atratus</i>               | EPN       | CRF3109  | Yes       | Yes     | Santa Cruz   | California                |
| <i>Thamnophis atratus</i>               | EPN       | CRF3111  | Yes       | Yes     | Santa Cruz   | California                |
| <i>Thamnophis atratus</i>               | EPN       | CRF3112  | Yes       | Yes     | Santa Cruz   | California                |
| <i>Thamnophis atratus</i>               | EPN       | JSR012   | Yes       | Yes     | Santa Cruz   | California                |
| <i>Thamnophis atratus</i>               | EPN       | JSR013   | Yes       | Yes     | Santa Cruz   | California                |
| <i>Thamnophis atratus</i>               | EPN       | JSR037   | Yes       | Yes     | Santa Cruz   | California                |
| <i>Thamnophis atratus</i>               | EPN       | CRF3110  | No        | Yes     | Santa Cruz   | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF2458C | Yes       | Yes     | Captive Birth  | California*               |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF2458D | Yes       | Yes     | Captive Birth  | California*               |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF2462C | Yes       | Yes     | Captive Birth  | California*               |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF2519E | Yes       | Yes     | Captive Birth  | California*               |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF2523D | Yes       | Yes     | Captive Birth  | California*               |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF2523G | Yes       | Yes     | Captive Birth  | California*               |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF3215  | Yes       | No      | Fresno   | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | MTJH390  | Yes       | No      | Humboldt   | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | MTJH394  | Yes       | No      | Humboldt   | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | MTJH399  | Yes       | Yes     | Humboldt   | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | MTJH402  | Yes       | Yes     | Humboldt   | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | MTJH430  | Yes       | Yes     | Lane   | Oregon                    |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF2459  | Yes       | Yes     | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | MTJH381  | Yes       | No      | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | MTJH384  | Yes       | No      | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | REdC10   | Yes       | Yes     | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | REdC4    | Yes       | Yes     | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | Wills06  | Yes       | Yes     | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF2465  | No        | Yes     | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | EJE190   | Yes       | Yes     | Nevada   | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | EJE191   | Yes       | No      | Nevada   | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF2417  | Yes       | Yes     | Placer   | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF3311  | Yes       | No      | Sierra   | California                |
| <i>Thamnophis sirtalis</i>              | ancestral | CRF3041  | Yes       | Yes     | Siskiyou   | California                |
| <i>Thamnophis sirtalis</i>              | LVNV      | CRF2399a | No        | Yes     | Captive Birth  | California*               |
| <i>Thamnophis sirtalis</i>              | LVNV      | CRF2941  | Yes       | Yes     | Contra Costa   | California                |
| <i>Thamnophis sirtalis</i>              | LVNV      | HOP02    | Yes       | No      | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | LVNV      | REdC1    | Yes       | Yes     | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | LVNV      | REdC2    | Yes       | Yes     | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | LVNV      | REdC5    | Yes       | Yes     | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | LVNV      | REdC6    | Yes       | Yes     | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | LVNV      | REdC8    | Yes       | Yes     | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | LVNV      | REdC9    | Yes       | Yes     | Mendocino  | California                |
| <i>Thamnophis sirtalis</i>              | LVNV      | CRF2399  | Yes       | Yes     | Napa   | California                |
| <i>Thamnophis sirtalis</i>              | LVNV      | CRF3275  | Yes       | No      | Napa   | California                |
| <i>Thamnophis sirtalis</i>              | LVNV      | REdC7    | Yes       | Yes     | Sonoma   | California                |
| Ancestral <i>Thamnophis atratus</i>     |           | 16       | 16        | 15      | Del Norte, Shasta, Siskiyou  | California                |
| TTX-resistant <i>T. atratus</i> (EPN)   |           | 11       | 10        | 11      | Alameda, Santa Cruz  | California                |
| Ancestral <i>Thamnophis sirtalis</i>    |           | 24       | 23        | 17      | Fresno, Humboldt, Mendocino, Nevada, Placer, Sierra, Siskiyou; Captive Birth; Lane | California, Oregon        |
| TTX-resistant <i>T. sirtalis</i> (LVNV) |           | 12       | 11        | 10      | Mendocino, Napa, Sonoma; Captive Birth   | California, Captive Birth |
| <b>Σ</b>                                |           | 63       | 44        | 38      | 15   | 2                         |