

Appendix A. Locality information for *Ensatina eschscholtzii* samples. Population numbers correspond to Figure 2, and are used throughout the text. Samples within 1 km that contain haplotypes belonging to the same clade are grouped into single populations. MVZ#: Accession number for the Museum of Vertebrate Zoology, University of California, Berkeley. Clades and subclades are discussed in the manuscript text.

Population	MVZ #	Longitude	Latitude	Locality	County	Subspecies	Clade	lineage	GenBank
28	220589	-124.03046	40.52612	1.6 mi E Carlotta on Hwy 36	Humboldt	<i>oregonensis</i>	<i>oregonensis</i> [2]	E	FJ151688
29	158076	-123.61220	40.17870	Alderpoint	Humboldt	<i>oregonensis</i>	<i>oregonensis</i> [2]	E	FJ151689
30	181357	-123.99400	40.09500	3 mi S Ettersberg	Humboldt	<i>oregonensis</i>	<i>oregonensis</i> [2]	E	FJ151690
31a	182034	-123.71750	39.85694	Drive-thru Tree, Leggett	Mendocino	<i>oregonensis</i>	<i>oregonensis</i> [2]	E	FJ151691
31b	182035	-123.71750	39.85694	Drive-thru Tree, Leggett	Mendocino	<i>oregonensis</i>	<i>oregonensis</i> [2]	E	FJ151692
32	194159	-122.83330	38.70000	1.5 mi N Hwy. 128 on Geysers Rd.	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151693
33	158159	-123.10830	38.68330	Skaggs Springs Rd., 1.3 mi E Las Lomas	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	C	FJ151694
34	238155	-122.59617	38.64148	0.35 mi S of Lawton/Old Toll Rd, on Hwy 29, N of Calistoga	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151695
35	208381	-122.77500	38.62500	Maacama Cr., 1.3 mi S Hwy 128 on Chalk Hill Rd.	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151696
36	221138	-123.15830	38.61670	Jim Creek	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	C	FJ151697
37a	217497	-122.91974	38.59070	Mill Creek Rd., ca. 3 mi W Woodside Rd., WSW Healdsburg	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	C	FJ151698
37b [†]	217502	-122.91974	38.59070	Ibid.	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	C	FJ151699
38a	237529	-122.84617	38.60488	Bailhache Ave., S side of Russian, Healdsburg	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151700
38b	237530	-122.84617	38.60488	Ibid.	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151701
39	238160	-122.64426	38.60272	0.1 mi W of Napa Co. Line on Hwy 128, N of Calistoga	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151702
40	238157	-122.61980	38.58413	1 mi up Franz Valley School Rd, off Petrified Forest Rd, N of Calistoga	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151703
41	237531	-122.69417	38.58333	Pepperwood Ranch Natural Preserve, N of Franz Valley Rd	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151704
42	226755	-122.76700	38.57500	Chalk Hill Rd., 0.7 mi S Spurgeon Rd. and 2.7 mi N Leslie Rd.	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151705
43	226752	-122.61700	38.55000	0.1 mi W on Lorraine Rd, 0.2 mi W Mark West Spring Rd, Santa Rosa	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151706
44	226051	-122.71917	38.54222	along Mark W Spr. Rd., ca. 0.5 mi S Mark W. Resort	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151707
45a	188992	-122.39684	38.50527	ca. 5.0 mi E St. Helena along Conn Valley Rd.	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151708
45b [†]	238164	-122.59182	38.52068	4.1 miles down St. Helena Rd., W of Calistoga Rd., near Calistoga	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151709
46	221126	-122.93300	38.51700	McPeak Rd., 0.6 mi NW River Rd., at Crossing of Russian River	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	C	FJ151710
47	221086	-122.91667	38.51667	Canyon Rd., 0.3 mi SSW River Rd., Hollydale	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	C	FJ151711
48a	226053	-122.88333	38.50806	W. side Wohler Rd. Bridge	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	C	FJ151712
48b	226054	-122.88389	38.50944	Hill 200 m NW end Wohler Rd. Bridge	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	C	FJ151713
49	188994	-122.39684	38.50527	ca. 5.0 mi E (by road) St. Helena along Conn Valley Rd.	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151714
50	226745	-122.90900	38.47300	0.1 mi S Hwy. 116 on Giovanetti Rd.	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	C	FJ151715
51a	158111	-122.24253	38.43349	NE side Atlas Peak, 9 mi on Atlas Peak Rd. from Hwy. 121	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151716
51b	205516	-122.61670	38.46670	0.3 mi E of Los Alamos Rd. on Wildwood Rd. near Santa Rosa	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151717
52	226760	-122.92472	38.44778	Green Valley Road, 200 ft E Harrison Grade Road, E Graton	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	C	FJ151718
53	158112	-122.24253	38.43349	NE side Atlas Peak, 9 mi (by road) on Atlas Peak Rd. from Hwy. 121	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151719
54	211897	-122.91670	38.41670	0.6 mi W Green Hill Rd. on Graton road along Parrington Creek	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151720
55	208426	-122.86670	38.40000	0.8 mi N of Bodega Hwy. on Ferguson Rd.	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151721
56	237565	-122.85000	38.36700	Kennedy Rd, 1 mi E of jct of Burnside Rd, Sebastapol	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151722
57	205514	-122.45800	38.37500	6.6 mi NE of Hwy 12 on Cavedale Rd.	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151723
58	237500	-122.41083	38.36871	Mt. Veeder Rd, 4.05 mi N of Redwood Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151724
59	237501	-122.38616	38.35919	Mt. Veeder Rd, 2.2 mi N of Redwood Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151725

Population	MVZ #	Longitude	Latitude	Locality	County	Subspecies	Clade	lineage	GenBank
60a	237495	-122.38274	38.35533	Mt. Veeder Rd, 1.85 mi N of Redwood Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151726
60b	237496	-122.38451	38.35757	Mt. Veeder Rd, 2.05 mi N of Redwood Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151727
60c	237497	-122.38451	38.35757	Ibid.	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151728
60d	237498	-122.38451	38.35757	Ibid.	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151729
60e	237499	-122.38451	38.35757	Ibid.	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151730
60f	237502	-122.38451	38.35757	Ibid.	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151731
60g	238159	-122.38370	38.35643	Mt. Veeder Rd, 1.95 mi N of Redwood Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151732
61	237516	-122.41921	38.34754	Redwood Rd., 3.45 mi W of Mt Veeder Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151733
62a	237519	-122.39843	38.34512	Redwood Rd., 2.1 mi W of Mt Veeder Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151734
62b	237523	-122.39843	38.34512	Ibid.	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151735
63	237558	-122.86100	38.34500	English Hill, 1.6 mi S Barnett Valley Rd on Burnside Rd	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151736
64	237514	-122.40065	38.34492	Redwood Rd., 2.25 mi W of Mt Veeder Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151737
65a	237515	-122.41312	38.34416	Redwood Rd., 3.0 mi W of Mt Veeder Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151738
65b	237517	-122.40990	38.34464	Redwood Rd., 2.8 mi W of Mt Veeder Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151739
65c	237518	-122.40318	38.34416	Redwood Rd., 2.4 mi W of Mt Veeder Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151740
66	237513	-122.39271	38.34174	Redwood Rd., 1.7 mi W of Mt Veeder Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151741
67a	237520	-122.38029	38.33457	Redwood Rd., 0.7 mi W of Mt Veeder Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151742
67b	237521	-122.37523	38.33450	Redwood Rd., 0.4 mi W of Mt Veeder Rd	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151743
67c	237522	-122.37523	38.33450	Ibid.	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151744
68	237494	-122.34550	38.32090	Mt. Veeder Rd, 0.75 mi N Browns Valley Rd, W town of Napa	Napa	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151745
69	237549	-122.39847	38.29623	Lovall Valley Rd, ~0.7 mi E of jct with Wood Valley Rd	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151746
70	237532	-122.39812	38.29478	Lovall Valley Rd, ~0.6 mi NW of the jct. with Lovall Valley Loop Rd	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [2]	B	FJ151747
71a	Tissue only ¹	-122.94740	38.17920	Tomaes Point, 1200 m southwest end of road	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151748
71b	Tissue only ¹	-122.94740	38.17920	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151749
71 ⁺	226727	-122.62803	38.12075	0.1 mi E entrance Indian Valley Golf Club off Navato Rd, Navato	Marin	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	*
73a	237144	-122.83840	38.10470	Along Hwy 1 at E margin Tomales Bay	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151751
73b [†]	237145	-122.83840	38.10470	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151752
74a	Tissue only ¹	-122.87930	38.09920	1.1 km SE jct Sir Frances Drake Hwy & Pierce Point Rd	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151753
74b [†]	Tissue only ¹	-122.87930	38.09920	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151754
74c [†]	Tissue only ¹	-122.87930	38.09920	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151755
74d [†]	Tissue only ¹	-122.87930	38.09920	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151756
74e	Tissue only ¹	-122.88400	38.09500	Point Reyes, 1.9 km SE jct. Sir Francis Drake Hwy & Pierce Pt Rd	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151757
75a [#]	Tissue only ¹	-122.88250	38.09350	1.9 km SE jct Sir Frances Drake Hwy & Pierce Point Rd	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151758
75b [†]	Tissue only ¹	-122.88250	38.09350	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151759
75c [#]	Tissue only ¹	-122.88250	38.09350	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151760
75d	Tissue only ¹	-122.88250	38.09350	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151761

Population	MVZ #	Longitude	Latitude	Locality	County	Subspecies	Clade	lineage	GenBank
75e	Tissue only ¹	-122.88250	38.09350	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151762
75f	Tissue only ¹	-122.88070	38.08830	Mt. Vision, 2.1 km SE jct Sir Frances Drake Hwy & Pierce Point Rd.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151763
75g	Tissue only ¹	-122.88070	38.08830	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151764
75h [#]	Tissue only ¹	-122.88070	38.08830	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151765
75i	Tissue only ¹	-122.88070	38.08830	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151766
75j [†]	Tissue only ¹	-122.88070	38.08830	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151767
76a	Tissue only ¹	-122.86890	38.02340	Coast Trail, 7.2 km WSW of Olema, Point Reyes National Seashore	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151768
76b	Tissue only ¹	-122.86890	38.02340	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151769
77a	219633	-122.68323	38.00814	S end Montezuma Rd., 0.5 mi S Sir Francis Drake Blvd., Forest Knolls	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151770
77b	219634	-122.68323	38.00814	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151771
78 [†]	220624	-122.60359	37.97221	below Sky Oaks Rd., E junction with Bolinas Rd.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151772
79a	Tissue only ¹	-122.69820	37.96970	Bolinas Ridge Trail, 4 km N of intersection of Hwy 1 & road into Bolinas	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151773
79b	Tissue only ¹	-122.69820	37.96970	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151774
80a	237491	-122.44851	37.88854	Paradise Dr, ~3.1 mi S from jct with Trestle Glen Blvd	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151775
80b	237492	-122.44851	37.88854	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [2]	D	FJ151776
81	185818	-122.42127	37.49490	Digger Canyon, 1.5 mi N Pilarcitos Cr on Apanolio Cr, Half Moon Bay	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151777
82	222995	-122.33722	37.45801	Skyline Blvd, 3.8 mi S of Hwy. 92	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151778
83	230800	-122.28945	37.42927	King's Mountain Rd., 1.9 mi W Tripp Rd.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151779
84 ^{**}	223008	-122.31917	37.42016	Tunitas Creek Rd., 0.75 mi S of Skyline Blvd.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	*
85 [†]	215831	-122.26035	37.39841	Alembique Creek at Crossing of Hwy. 84, S of Woodside	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151780
86 ^{**}	222993	-122.25306	37.37186	Skyline Blvd., 1.4 mi S of CA 84	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	*
87a	230782	-122.33917	37.34417	Bear Gulch Rd., 1.5 mi N junction 84	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151781
87b	230783	-122.33917	37.34417	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151782
88a	222987	-122.18600	37.31510	Skyline Blvd. at Alpine Rd.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151783
88b	222988	-122.18600	37.31510	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151784
88c	222989	-122.18600	37.31510	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151785
88d	222990	-122.18600	37.31510	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151786
88e	222991	-122.18600	37.31510	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151787
88f	222992	-122.18600	37.31510	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151788
89	230785	-122.26694	37.30528	Junction of Pescadero Rd. and Boys school Rd.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151789
90a	230786	-122.28417	37.28556	Pescadero Rd., 10 mi E Hwy. 1	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151790
90b	230889	-122.28056	37.29167	Pescadero Rd., 0.7 mi N Warr Rd.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151791
90c	230890	-122.28056	37.29167	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151792
90d	230891	-122.28056	37.29167	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151793
90e	230892	-122.28056	37.29167	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151794
90f	230893	-122.28056	37.29167	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151795

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90g	230894	-122.28056	37.29167	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151796
90h	230895	-122.28056	37.29167	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151797
91**	230778	-122.21056	37.26778	Portola State Park Rd. at North entrance of Portola State Park	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	*
92**	223016	-122.12889	37.26111	Skyline Blvd., 13.1 mi S of Hwy. 84	Santa Cruz	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	*
93	230838	-122.15092	37.21131	CA 9, 0.25 mi E of jct. CA 236	Santa Cruz	<i>oregonensis</i>	<i>oregonensis</i> [2]	A	FJ151798
94	194081	-123.48519	39.68634	Branscomb Rd., 9.7 mi W Hwy. 101 at Laytonville	Mendocino	<i>oregonensis</i>	<i>oregonensis</i> [1]	C	L75806
95	237548	-123.23542	39.39033	Noyo River, 0.25 mile E Old Union Lumber Rd in Jackson State Forest	Mendocino	<i>oregonensis</i>	<i>oregonensis</i> [1]	C	FJ151799
96	237547	-123.65803	39.35420	N Hwy 20 at Parlin Fork Conservation Camp exit in Jackson State Forest	Mendocino	<i>oregonensis</i>	<i>oregonensis</i> [1]	C	FJ151800
97†	168991	-123.67861	39.17972	Hwy. 128, Barton Gulch, 4.3 mi SE Hwy. 1	Mendocino	<i>oregonensis</i>	<i>oregonensis</i> [1]	C	FJ151801
98	194896	-123.54166	39.15260	1.9 mi NW Clark Rd., near Navarro	Mendocino	<i>oregonensis</i>	<i>oregonensis</i> [1]	C	L75809
99	221131	-123.43583	38.70333	Sea Ranch, 1.2 mi E Hwy. 1, on Lookout Rd.	Sonoma	<i>oregonensis</i>	<i>oregonensis</i> [1]	C	FJ151802
100a#	Tissue only ¹	-122.80230	38.01230	Bear Valley Trail, 3.3 km SSW of Olema, Point Reyes National Seashore	Marin	<i>oregonensis</i>	<i>oregonensis</i> [1]	B	FJ151803
100b#	Tissue only ¹	-122.80230	38.01230	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [1]	B	FJ151804
100c#	Tissue only ¹	-122.80230	38.01230	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [1]	B	FJ151805
100d	Tissue only ¹	-122.80300	38.01200	Point Reyes, Bear Valley, 0.8 km S Divide Meadow, 3.3 km SSW Olema	Marin	<i>oregonensis</i>	<i>oregonensis</i> [1]	B	FJ151806
100e#	Tissue only ¹	-122.80140	38.01050	Bear Valley Trail, 3.3 km SSW of Olema, Point Reyes National Seashore	Marin	<i>oregonensis</i>	<i>oregonensis</i> [1]	B	FJ151807
100f	Tissue only ¹	-122.80140	38.01050	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [1]	B	FJ151808
100g#	Tissue only ¹	-122.80140	38.01050	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [1]	B	FJ151809
100h	Tissue only ¹	-122.80140	38.01050	Ibid.	Marin	<i>oregonensis</i>	<i>oregonensis</i> [1]	B	FJ151810
101	Tissue only ¹	-122.76360	38.00500	Olema Creek, 1 km NW 5-Brook	Marin	<i>oregonensis</i>	<i>oregonensis</i> [1]	B	FJ151811
102	Tissue only ¹	-122.77500	37.99300	Point Reyes, Steward Trail at jct. Greenpicker Trail, 5.2 km S of Olema	Marin	<i>oregonensis</i>	<i>oregonensis</i> [1]	B	FJ151812
103#	Tissue only ¹	-122.77420	37.99150	Stewart Trail, 5.2 km S of Olema, Point Reyes National Seashore	Marin	<i>oregonensis</i>	<i>oregonensis</i> [1]	B	FJ151813
104a	230774	-122.31972	37.26611	Pescadero Creek Rd., 6.7 mi E jct. Hwy. 1	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151814
104b	230775	-122.31972	37.26611	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151815
104c	230776	-122.31972	37.26611	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151816
104d	230792	-122.31613	37.27007	Pescadero Creek Rd., 7 mi E jct. Hwy 1	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151817
104e	230793	-122.31613	37.27007	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151818
104f	230794	-122.31613	37.27007	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151819
104g	230795	-122.31613	37.27007	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151820
104h	230796	-122.31613	37.27007	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151821
104i	230797	-122.31613	37.27007	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151822
104j	230798	-122.31613	37.27007	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151823
104k	230799	-122.31613	37.27007	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151824
105a	226735	-122.33089	37.22403	Butano Park Rd., 1.4 mi E jct Cloverdale Rd	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151825

Population	MVZ #	Longitude	Latitude	Locality	County	Subspecies	Clade	lineage	GenBank
105b	226736	-122.33089	37.22403	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151826
105c	226737	-122.33089	37.22403	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151827
105d	230801	-122.33089	37.22403	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151828
105e	230802	-122.33089	37.22403	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151829
105f	230803	-122.33089	37.22403	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151830
105g	230804	-122.33089	37.22403	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151831
106a	230779	-122.28056	37.22250	Butano Fire Trail at East Boundary, Butano State Park	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151832
106b	230863	-122.28056	37.22250	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151833
107	230864	-122.19200	37.19200	Hwy. 236, 2.7 mi SW junction Hwy 9 (N junction)	Santa Cruz	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151834
108a	230780	-122.32889	37.18694	Gazos Creek Rd., 1 mi E of Cloverdale	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151835
108b	230781	-122.32889	37.18694	Ibid.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151836
109	230790	-122.26700	37.10800	Skyline-to-Sea Trail at Tramway spring, 1.5 mi N Hwy. 1	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151837
110	226738	-122.29150	37.10780	Hwy. 1 at border between Santa Cruz & San Mateo Co.	San Mateo	<i>oregonensis</i>	<i>oregonensis</i> [1]	A	FJ151838
111	208454	-122.76670	38.55000	0.4 mi E of Chalk Hill Rd. on Leslie Rd.	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151839
112	208456	-122.74200	38.50800	0.3 mi N of Mark West Creek Rd on Wikiup Bridgeway Rd	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151840
113	237577	-122.88000	38.50720	East side of Wohler Bridge	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151841
114	226750	-122.84400	38.48500	0.5 mi W Laguna Rd., 0.1 mi E River Rd., Trenton Rd., Forestville	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151842
115a	205681	-122.70000	38.48300	0.4 mi E Parker Hill road along Pine Creek, Santa Rosa	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	L75819
115b	205686	-122.70000	38.48300	Ibid.	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151843
116	226761	-122.85800	38.46700	Vine Hill School Rd., 0.1 mi E Vine Hill Rd., N Graton	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151844
117	217519	-122.70830	38.45000	Santa Rosa Junior College	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151845
118	208457	-122.85000	38.44170	0.6 mi N of Hwy. 116 on Frei Rd.	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151846
119	237579	-122.83200	38.42200	200 meters S Occidental Rd on High School Rd, Sebastapol	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151847
120	237576	-122.82833	38.41389	1708 Hurlbut Dr, N of Sebastapol	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151848
121	215907	-122.64170	38.38330	0.2 mi W F Grange Rd. on Peracca Rd.	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151849
122†	205023	-122.60800	38.36700	1.2 mi E of Pressley Rd. on Sonoma Mt. Rd.	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151850
123	237587	-122.56750	38.36610	0.5 mi W of Enterprise Rd on Sonoma Mountain Rd	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151851
124	237586	-122.57639	38.36528	1.1 mi W of Enterprise Rd on Sonoma Mountain Rd	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151852
125	237584	-122.54250	38.35528	Near Entrance to Jack London Regional Park, London Ranch Rd	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151853
126	237581	-122.58280	38.33230	End of Sonoma Mt. Rd., near Peak of Sonoma Mt	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151854
127	222976	-122.35373	38.33043	1.8 mi W Napa, 2930 Redwood Rd.	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151855
128a	237511	-122.36382	38.31476	Patrick Rd., 2.0 mi W Brown's Valley Rd., W of Napa	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151856
128b	237512	-122.36382	38.31476	Ibid.	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151857
129a	181413	-122.34883	38.31152	3.2 mi W of Napa on Patrick Rd.	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151858
129b	237503	-122.34942	38.31186	Patrick Rd., 1.0 mi W Brown's Valley Rd.	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151859
129c	237505	-122.35029	38.31310	Patrick Rd., 1.1 mi W Brown's Valley Rd.	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151860
129d	237506	-122.35160	38.31352	Patrick Rd., 1.2 mi W Brown's Valley Rd.	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151861
129e	237507	-122.35492	38.31352	Patrick Rd., 1.4 mi W Brown's Valley Rd.	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151862
129f	237508	-122.36007	38.31262	Patrick Rd., 1.7 mi W Brown's Valley Rd.	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151863
129g	237509	-122.36077	38.31228	Patrick Rd., 1.75 mi W Brown's Valley Rd.	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151864
129h	237510	-122.36077	38.31228	Ibid.	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151865
130	237585	-122.60939	38.30962	Lynch Rd, 0.6 mi E of jct. with Hardin Lane, Sonoma Mt.	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151866

Population	MVZ #	Longitude	Latitude	Locality	County	Subspecies	Clade	lineage	GenBank
131a	237588	-122.54880	38.30840	Spring Rd, 0.4 mi from Prospect Rd & 0.5 mi from Grove Rd	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151867
131b	237589	-122.54880	38.30840	Ibid.	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151868
132a	237582	-122.62268	38.30217	Hardin Lane, 0.7 mi W of jct with Lynch Rd	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151869
132b	237583	-122.62268	38.30217	Ibid.	Sonoma	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151870
133	236229	-122.37222	38.25389	ca. 0.4 mi E of the Sonoma/Napa Co border on Hwy 12	Napa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	north bay	FJ151871
134	237574	-122.22160	37.89840	Near jct Wildcat Canyon Rd and El Toyonal Rd	Alameda	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151872
135a	237566	-122.21750	37.89180	El Toyonal Rd, between Wildcat Canyon Rd and Chapparal Place	Alameda	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151873
135b	237567	-122.21750	37.89180	Ibid.	Alameda	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151874
135c	237568	-122.21750	37.89180	Ibid.	Alameda	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151875
135d	237569	-122.21750	37.89180	Ibid.	Alameda	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151876
135e	237571	-122.21750	37.89180	Ibid.	Alameda	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151877
135f	237572	-122.21750	37.89180	Ibid.	Alameda	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151878
135g	237573	-122.21750	37.89180	Ibid.	Alameda	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151879
136	163850	-122.17544	37.87184	35 Glorietta Ct., Orinda	Contra Costa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	L75818
137	215743	-121.69975	37.71810	at junction of 580 and Greenville Rd., E of Livermore	Alameda	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151880
138	CAS 2071R ²	-122.45000	37.69200	Guadalupe Cyn Pkwy, 0.1 mi W of entrance San Bruno Mtn. State Park	San Mateo	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151881
139	215891	-121.95000	37.68330	Upper Reaches of de Vaney Canyon	Alameda	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151882
140	167291	-122.33541	37.55555	0.7 mi W El Camino Real, Crystal Spr. Rd. at Cunningham Way	San Mateo	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151883
141	230770	-121.41025	36.97050	Lone Tree Rd., circa 8 mi E Fairview Rd.	San Benito	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	east bay	FJ151884
142	243224	-120.54672	38.36290	Wolverine Mine Rd., 2.1 mi ENE Glencoe	Calaveras	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151885
143a	243142	-120.59322	38.35962	0.8 mi NW Glencoe	Calaveras	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151886
143b	243143	-120.59322	38.35962	Ibid.	Calaveras	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151887
143c	243145	-120.59322	38.35962	Ibid.	Calaveras	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151888
144	243217	-120.54497	38.35047	Wet Gulch-Fir Transect, 2.2 mi E Glencoe	Calaveras	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151889
145	202316	-120.46400	38.17290	0.9 mi E Fullen Rd. on Sheep Ranch Rd.	Calaveras	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	L75817
146a	236230	-120.18917	37.76889	Cuneo Rd at Jackass Creek Access Rd	Mariposa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151890
146b	236231	-120.18917	37.76889	Ibid.	Mariposa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151891
147	236233	-120.14917	37.73778	Greeley Hill Divide on Hwy J 132 ca 1 mi W Greeley Hill Village	Mariposa	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151892
148a	244099	-119.63020	37.39500	Lewis Fork Creek, SE of intersection of Deer Run Trail & Cedar Valley Rd.	Madera	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151893
148b	244100	-119.63020	37.39500	Ibid.	Madera	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151894
148c	244101	-119.63020	37.39500	Ibid.	Madera	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151895
149a	244090	-119.64740	37.30500	Potter Ridge, S Oakhurst, 0.7 mi N Hwy. 41 on Fresno Flats Rd.	Madera	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151896
149b	244091	-119.64740	37.30500	Ibid.	Madera	<i>xanthoptica</i>	<i>xanthoptica</i> [1]	Sierra Nevada	FJ151897
150a	230866	-122.19200	37.19200	Hwy. 236, 2.7 mi SW junction Hwy 9 (N junction)	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i> <i>xanthoptica</i> [2]	<i>xanthoptica</i> [2]	FJ151898
150b	230867	-122.19200	37.19200	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i> <i>xanthoptica</i> [2]	<i>xanthoptica</i> [2]	FJ151899
151	230816	-121.96700	37.18300	Soda Springs Rd., 0.4 mi E Alma Bridge Rd.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i> <i>xanthoptica</i> [2]	<i>xanthoptica</i> [2]	FJ151900
152	230787	-122.11700	37.18300	Kings Creek Rd., 2.6 mi N junction Hwy 9	San Mateo	<i>xanthoptica</i>	<i>xanthoptica</i> <i>xanthoptica</i> [2]	<i>xanthoptica</i> [2]	FJ151901
153a	230870	-122.19200	37.17500	Lodge Rd., 1.1 mi N junction Hwy. 236	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i> <i>xanthoptica</i> [2]	<i>xanthoptica</i> [2]	FJ151902
153b	230871	-122.19200	37.17500	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i> <i>xanthoptica</i> [2]	<i>xanthoptica</i> [2]	FJ151903
153c	230872	-122.19200	37.17500	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i> <i>xanthoptica</i> [2]	<i>xanthoptica</i> [2]	FJ151904
153d	230873	-122.19200	37.17500	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i> <i>xanthoptica</i> [2]	<i>xanthoptica</i> [2]	FJ151905
153e	230877	-122.19200	37.17500	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i> <i>xanthoptica</i> [2]	<i>xanthoptica</i> [2]	FJ151906
153f	230878	-122.19200	37.17500	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i> <i>xanthoptica</i> [2]	<i>xanthoptica</i> [2]	FJ151907

Population	MVZ #	Longitude	Latitude	Locality	County	Subspecies	Clade	lineage	GenBank
153g	230879	-122.19200	37.17500	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151908
153h	230880	-122.19200	37.17500	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151909
153i	230881	-122.19200	37.17500	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151910
153j	230882	-122.19200	37.17500	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151911
153k	230883	-122.19200	37.17500	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151912
153l	230884	-122.19200	37.17500	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151913
154	223015	-122.06889	37.16972	Bear Creek Rd., 4.9 mi E of Hwy. 9	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151914
155**	223018	-122.13583	37.16639	Hwy. 9, 4.5 mi S of Hwy. 236	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	*
156a	230868	-122.20000	37.15800	Little Basin Rd., 1.3 mi S junction Hwy. 236	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151915
156b	230869	-122.20000	37.15800	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151916
157a	230817	-121.94200	37.12500	Morrill Rd., 0.2 mi W junction Wrights Station Rd.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151917
157b	230818	-121.94200	37.12500	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151918
157c	230819	-121.94200	37.12500	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151919
157d	230821	-121.94200	37.12500	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151920
157e	230822	-121.94200	37.12500	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151921
157f	230823	-121.94200	37.12500	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151922
157g	230824	-121.94200	37.12500	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151923
157h	230825	-121.94200	37.12500	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151924
157i	230826	-121.94200	37.12500	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151925
157j	230827	-121.94200	37.12500	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151926
157k	230828	-121.94200	37.12500	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151927
157l	230829	-121.94200	37.12500	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151928
157m	230874	-121.94200	37.11700	Miller cut-off, 0.1 mi E junction Soquel Creek and San Jose Rd.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151929
158**	230859	-122.14028	37.10361	Alba Rd., NE jet Empire Grade	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	*
159**	230862	-122.10611	37.09722	Alba Rd., 2.9 mi E jet Empire Grade	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	*
160**	230856	-122.13778	37.07083	Empire Grade, 1.7 mi N junction with Felton Empire Rd.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	*
161	230805	-121.75194	37.04611	Summit Rd., 2.9 mi NW Mt. Madonna Rd.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151930
162**	230854	-122.05389	37.04444	Graham Hill Rd., 0.9 mi E junction Zayante Rd.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	*
163**	230844	-121.79250	37.03139	Redwood Rd., 0.9 mi NW junction Hazel Dell Rd.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	*
164a	230812	-121.71667	37.01444	Mt. Madonna Rd., N junction Summit Rd.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151931
164b	230813	-121.71667	37.01444	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151932
164c	230814	-121.71667	37.01444	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151933
164d*	230815	-121.71667	37.01444	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151934
164e	230832	-121.71667	37.01444	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151935
164f	230833	-121.71667	37.01444	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151936
164g	230834	-121.71667	37.01444	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151937
164h	230835	-121.71667	37.01444	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151938
164i	230836	-121.71667	37.01444	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151939
164j	230837	-121.71667	37.01444	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151940

Population	MVZ #	Longitude	Latitude	Locality	County	Subspecies	Clade	lineage	GenBank
165a	226739	-121.67847	37.00379	Hwy. 152 , 5 mi W junction St. Teresa Blvd., vicinity Gilroy	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151941
165b	226740	-121.67847	37.00379	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151942
165c	226741	-121.67847	37.00379	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151943
165d	226742	-121.67847	37.00379	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151944
165e	226743	-121.67847	37.00379	Ibid.	Santa Clara	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151945
166†	186613	-122.05676	36.99644	Cave Gulch, W of Empire Grade Rd., near U.C. Santa Cruz	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151946
167**	230846	-122.01056	36.99556	Branciforte Rd., 0.1 mi S jct Glen Canyon Rd.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	*
168	230839	-121.74361	36.99472	Hazel Dell Rd., 0.7 mi W jct Mt. Madonna Rd.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151947
169a	230887	-121.69943	36.99130	Hecker Pass Rd, 2.7 mi SW junction Hwy. 9	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151948
169b	230888	-121.69943	36.99130	Ibid.	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151949
170†	181436	-121.71059	36.97927	4.7 mi ENE city limit of Watsonville on Hwy. 152	Santa Cruz	<i>xanthoptica</i>	<i>xanthoptica</i>	<i>xanthoptica</i> [2]	FJ151950
171	232660	-121.66700	36.91700	Hwy 129 W of Chittenden Pass, N bank of Pajaro River, Pajaro Valley	Santa Cruz	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151951
172	195674	-121.59588	36.85724	Rocks Rd., 0.5 mi S Hwy. 101	San Benito	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151952
173	205706	-121.49906	36.80216	San Juan Creek, 3.7 mi S Hwy. 156 at San Juan Bautista	San Benito	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151953
174	211877	-121.89253	36.60021	corner Valenzuela Rd. & Viejo Rd., Monterey	Monterey	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151954
175a	232663	-121.86767	36.58550	Josselyn Canyon Road, 0.85 mi W Hwy. 68	Monterey	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151955
175b	233081	-121.86767	36.58550	Ibid.	Monterey	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151956
176	232661	-121.87500	36.57500	Jct. Aquajto and Monhollan Rds.	Monterey	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151957
177	167462	-121.86131	36.33100	Coast Rd., 7 mi SSE Hwy. 1, S Fork Little Sur River	Monterey	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151958
178	158106	-121.60341	36.10204	Big Creek Reserve, N Section	Monterey	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151959
179	223043	-121.17417	36.08573	20 m S of the 9 mi Marker on San Juan Grade Rd.	Monterey	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151960
180	217508	-120.48024	36.08193	Paluquin Mine near Parkfield, Southernmost Monterey County	Monterey	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151961
181	237493	-121.41194	35.88500	Along Willow Creek Rd, ~4.8 mi E Hwy 1	Monterey	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	FJ151962
182	167654	-120.04545	34.79473	San Rafael Mts., Zaca Creek, 1.9 mi W Zaca Lake	Santa Barbara	<i>eschschoztzii</i>	<i>eschschoztzii</i>	northern	L75799
183	181460	-116.77583	33.97980	E branch Millard Canyon along Kitching Peak Trail, 6.0 mi NNE Cabazon	Riverside	<i>eschschoztzii</i>	<i>eschschoztzii</i>	southern	L75798
184	237147	-116.63731	32.94351	Wildcat Spring 1.8 mi W Caya Maca Peak, on Boulder Creek Rd	San Diego	<i>eschschoztzii</i>	<i>eschschoztzii</i>	southern	FJ151963
185	178729	-116.68000	32.83000	3.5 mi E Alpine on S Access road to I-8 near Willow Rd. Overpass	San Diego	<i>eschschoztzii</i>	<i>eschschoztzii</i>	southern	L75800

1. Tail tips provided by Gary Fellers, Point Reyes National Seashore

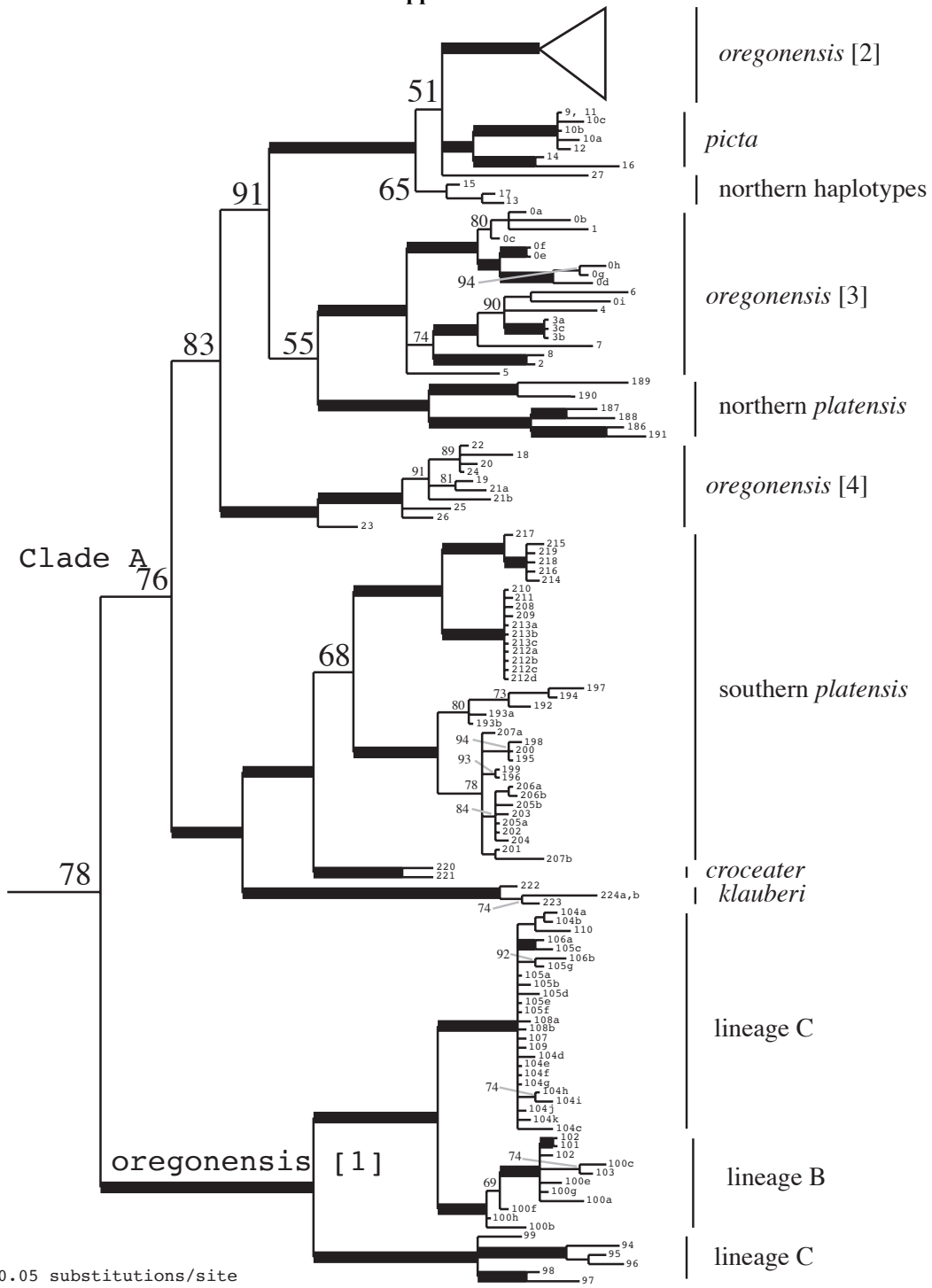
2. CAS = California Academy of Sciences accession number

† Sequences excluded from haplotype networks

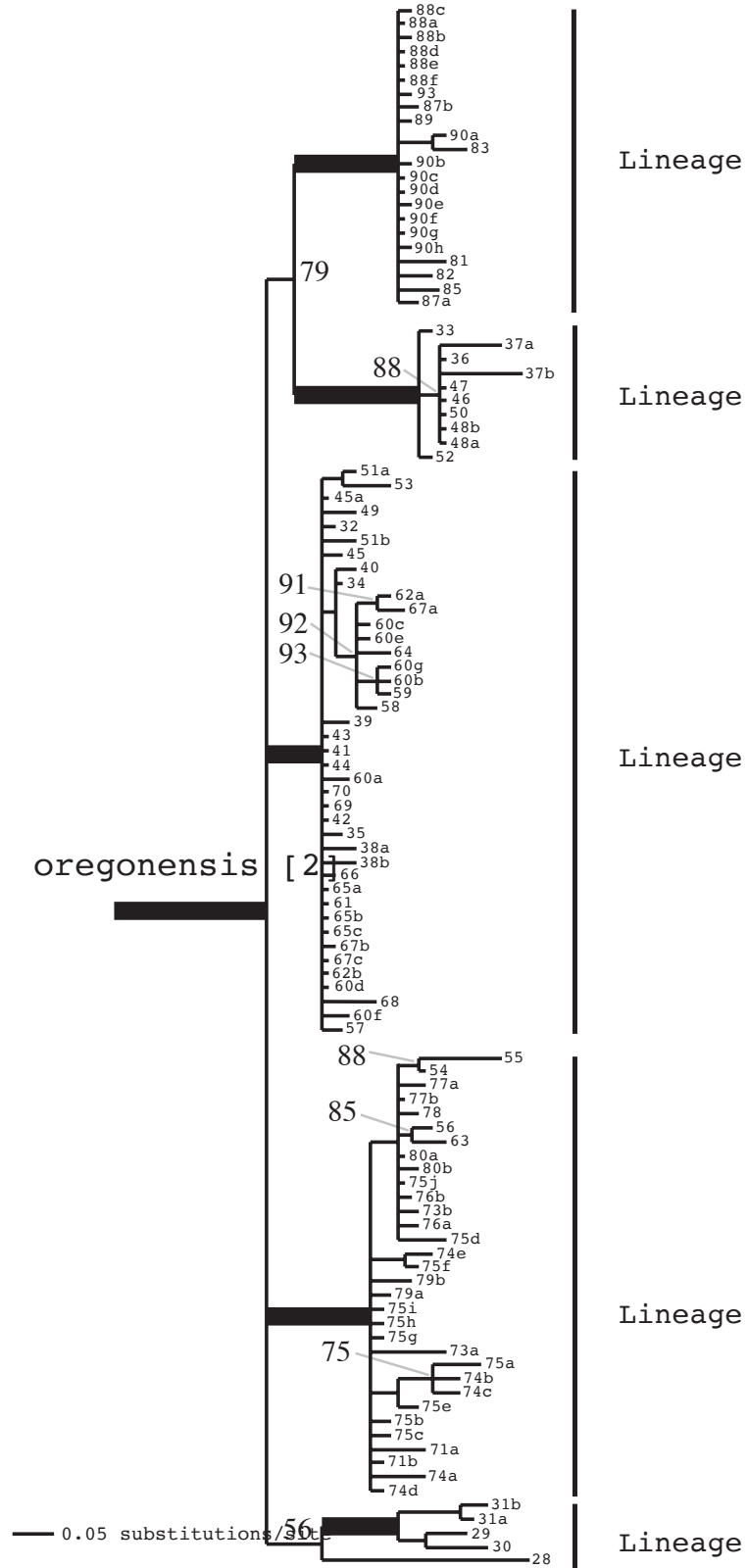
Sequences excluded from population genetic analyses

* Sequence excluded from Bayesian analysis because of low quality; also excluded from GenBank

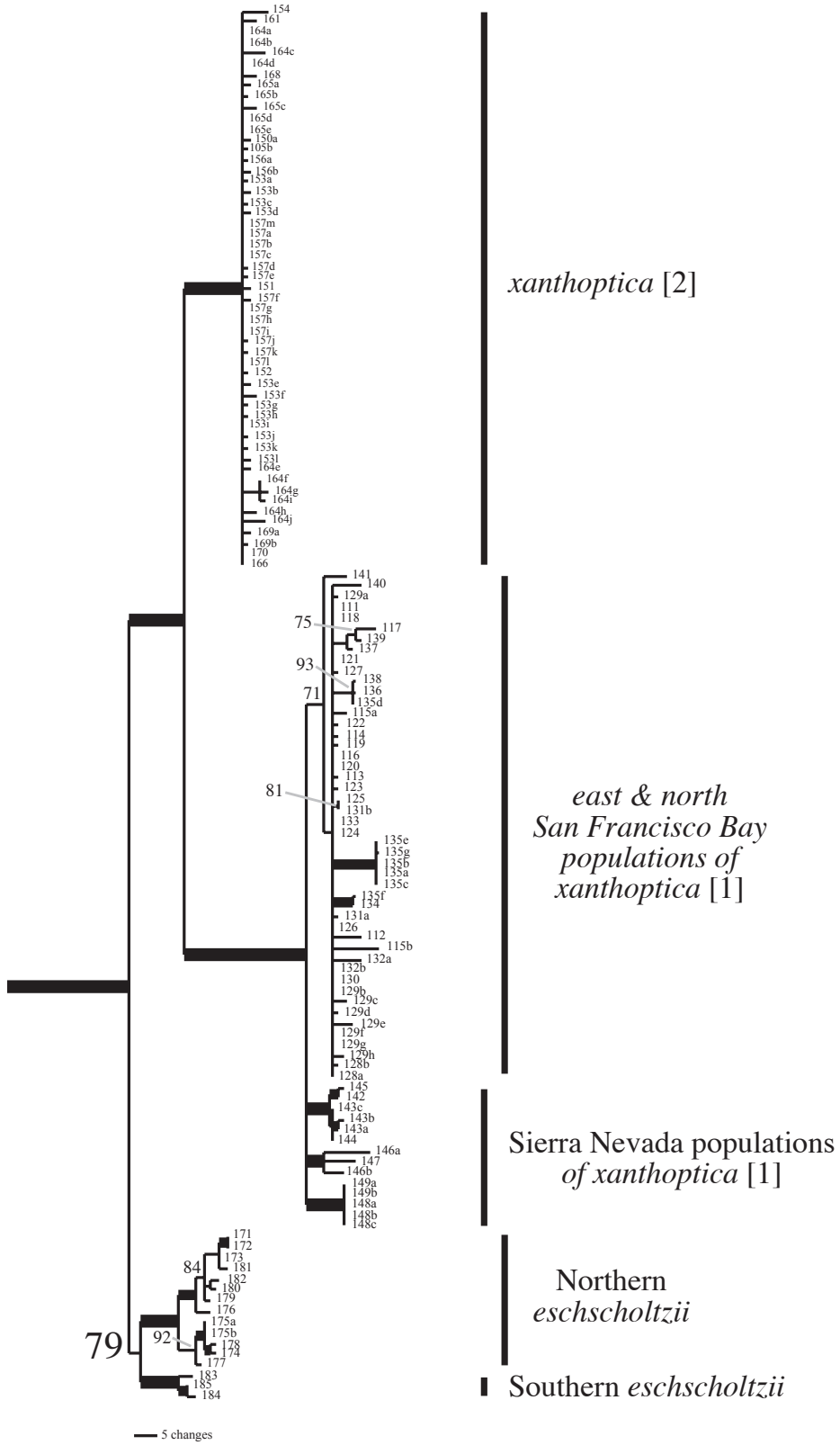
Appendix B



Phylogeny of Clade A and *oregonensis* [1] of *Ensatina eschscholtzii*, including population numbers (Fig. 2; see also Kuchta et al., *in review*). Relationships within *oregonensis* [2] are provided on the next page



Phylogeny of the *oregonensis* [2] clade of *E. eschscholtzii*, including population numbers (Fig. 2).



Phylogeny of the subspecies *xanthoptica* and *eschsoltzii*, which form the coastal clade of *E. eschsoltzii*, including population numbers (Fig. 2).

Appendix C: Matrices of average maximum likelihood distances within (grey) and between (white) mtDNA cytochrome *b* haplotype lineages.

Table 1: Distances within and between lineages of *oregonensis* [1] and *oregonensis* [2]

		<i>oregonensis</i> [1]			<i>oregonensis</i> [2]				
		Lineage A	Lineage B	Lineage C	Lineage A	Lineage B	Lineage C	Lineage D	Lineage E
<i>oregonensis</i> [1]	Lineage A	0.0051							
	Lineage B	0.0317	0.0071						
	Lineage C	0.0808	0.0759	0.0220					
<i>oregonensis</i> [2]	Lineage A	0.1388	0.1209	0.1332	0.0028				
	Lineage B	0.1429	0.1250	0.1362	0.0280	0.0046			
	Lineage C	0.1360	0.1195	0.1268	0.0325	0.0298	0.0024		
	Lineage D	0.1474	0.1301	0.1262	0.0335	0.0263	0.0374	0.0081	
	Lineage E	0.1373	0.1252	0.1394	0.0414	0.0334	0.0439	0.0376	0.0229

Table 2: Distances within and between regional clusters of populations within *xanthoptica* [1]

	East bay	North bay	East & north bay	Sierra Nevada
East bay	0.0063			
North bay	0.0059	0.0021		
East & north bay	N/A	N/A	0.0041	
Sierra Nevada	0.0159	0.0154	0.0155	0.0114

Table 3: Distances within and between clades of *Ensatina* within the central coastal California region

	<i>oregonensis</i> [1]	<i>oregonensis</i> [2]	<i>xanthoptica</i> [1]	<i>xanthoptica</i> [2]	<i>eschschoztzii</i>
<i>oregonensis</i> [1]	0.0299				
<i>oregonensis</i> [2]	0.1384	0.0236			
<i>xanthoptica</i> [1]	0.1348	0.1607	0.0084		
<i>xanthoptica</i> [2]	0.1412	0.1333	0.0593	0.0036	
<i>eschschoztzii</i>	0.1369	0.1264	0.0708	0.0594	0.0126