

Supplementary Table S1. The number of base differences per site (%) between the 28 haplotypes of *Siphlaenigma janae* found, based on a 658-bp fragment of the COI barcoding gene, are presented below the diagonal. Standard error estimates (%) are shown above the diagonal (blue values). Sample abbreviations in parentheses follow locality codes of Crosby et al. (1998).

Sample	1630	1687	473	474	475	476	478	375	379	385	387	390	499	500	543	6513	6623	6628	6676	6554	6555	6570	6589	6600	6531	3859	4115	4169
Pukenui Forest 1630 (ND)		0.4	0.5	0.3	0.5	0.4	0.3	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.5	0.7	0.5	0.7	0.7	0.8	0.8	0.8	0.5	0.8	0.8
Pukenui Forest 1687 (ND)	1.4		0.4	0.4	0.4	0.1	0.4	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.8	0.6	0.8	0.8	0.8	0.8	0.8	0.5	0.8	0.8
Pukenui Forest 473 (ND)	1.5	1.1		0.4	0.4	0.4	0.4	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.8	0.8	0.6	0.8	0.6	0.8	0.8	0.8	0.8	0.8	0.5	0.7	0.8
Pukenui Forest 474 (ND)	0.6	1.4	1.2		0.5	0.4	0.3	0.9	0.9	0.8	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.5	0.7	0.5	0.8	0.7	0.7	0.8	0.5	0.7	0.8	
Pukenui Forest 475 (ND)	1.5	1.4	1.2	1.5		0.4	0.4	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.8	0.8	0.6	0.8	0.6	0.8	0.8	0.8	0.8	0.6	0.8	0.8	
Pukenui Forest 476 (ND)	1.2	0.2	0.9	1.2	1.2		0.4	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.8	0.8	0.6	0.8	0.6	0.8	0.8	0.8	0.8	0.5	0.8	0.8	
Pukenui Forest 478 (ND)	0.5	1.2	1.4	0.5	1.4	1.1		0.9	0.9	0.8	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.5	0.7	0.5	0.7	0.7	0.7	0.7	0.5	0.7	0.7	
Reefton Saddle 375 (BR)	5.3	6.1	5.9	5.6	5.6	5.9	5.5		0.1	0.2	0.2	0.4	0.7	0.7	0.7	0.7	0.7	0.9	0.7	0.8	0.7	0.7	0.7	0.7	0.9	0.7	0.7	
Reefton Saddle 379 (BR)	5.2	5.9	5.8	5.5	5.5	5.8	5.3	0.2		0.2	0.1	0.4	0.7	0.7	0.7	0.7	0.6	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7	
Reefton Saddle 385 (BR)	5.0	5.8	5.9	5.3	5.6	5.6	5.2	0.3	0.2		0.2	0.4	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7	
Reefton Saddle 387 (BR)	5.3	6.1	5.9	5.6	5.6	5.9	5.5	0.3	0.2	0.3		0.4	0.7	0.7	0.7	0.7	0.7	0.9	0.7	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7	
Reefton Saddle 390 (BR)	4.3	5.0	4.9	4.6	4.6	4.9	4.4	1.1	0.9	1.1	1.1		0.7	0.7	0.6	0.6	0.6	0.8	0.6	0.7	0.6	0.6	0.6	0.7	0.7	0.6	0.6	
Taupo West 499 (TO)	4.4	4.9	4.4	4.4	4.7	4.7	4.3	4.0	3.8	4.0	4.0	3.2		0.2	0.3	0.3	0.3	0.3	0.7	0.2	0.7	0.2	0.3	0.4	0.3	0.3	0.7	0.3
Taupo West 500 (TO)	4.1	4.6	4.1	4.1	4.4	4.4	4.0	4.0	3.8	4.0	4.0	3.2	0.3		0.3	0.3	0.3	0.3	0.7	0.2	0.7	0.2	0.3	0.4	0.3	0.3	0.7	0.3
Taupo East 543 (TO)	4.3	4.4	4.0	4.3	4.3	4.1	3.5	3.4	3.5	3.5	3.5	2.7	0.5	0.5		0.4	0.4	0.7	0.3	0.7	0.3	0.3	0.3	0.4	0.7	0.3	0.3	
Pouiatoa Forest 6513 (TK)	4.0	4.7	4.3	4.0	4.6	4.6	3.8	3.5	3.4	3.5	3.5	2.7	0.8	0.8	0.9		0.3	0.7	0.3	0.7	0.3	0.2	0.3	0.7	0.3	0.3		
Pouiatoa Forest 6623 (TK)	4.0	4.7	4.3	4.0	4.6	4.6	3.8	3.4	3.2	3.4	3.4	2.6	0.8	0.8	0.9	0.6		0.7	0.3	0.7	0.3	0.3	0.3	0.4	0.7	0.3		
Pouiatoa Forest 6628 (TK)	1.8	2.3	2.1	2.1	2.4	2.1	2.0	5.2	5.0	4.9	5.2	4.1	3.8	3.5	3.7	4.0	3.8		0.7	0.1	0.7	0.7	0.8	0.7	0.3	0.7	0.8	
Pouiatoa Forest 6676 (TK)	4.1	4.9	4.4	4.1	4.7	4.7	4.0	3.7	3.5	3.7	3.7	2.9	0.3	0.3	0.5	0.5	0.5	3.8		0.7	0.2	0.2	0.3	0.2	0.3	0.7	0.3	
Pouiatoa Forest 6554 (TK)	1.7	2.4	2.3	2.0	2.6	2.3	1.8	5.0	4.9	4.7	5.0	4.0	3.7	3.4	3.5	3.8	3.7	0.2	3.7		0.6	0.7	0.7	0.7	0.3	0.7	0.7	
Pouiatoa Forest 6555 (TK)	4.1	4.9	4.4	4.4	4.7	4.7	4.3	3.7	3.5	3.7	3.7	2.9	0.3	0.3	0.5	0.8	0.8	3.5	0.3	3.4		0.3	0.4	0.3	0.3	0.7	0.3	
Pouiatoa Forest 6570 (TK)	4.0	4.7	4.3	4.0	4.6	4.6	3.8	3.5	3.4	3.5	3.5	2.7	0.8	0.8	0.6	0.3	0.6	4.0	0.5	3.8	0.8	0.1	0.1	0.3	0.7	0.2	0.2	
Pouiatoa Forest 6589 (TK)	4.1	4.9	4.4	4.1	4.7	4.7	4.0	3.7	3.5	3.7	3.7	2.9	0.9	0.9	0.8	0.5	0.8	4.1	0.6	4.0	0.9	0.2	0.2	0.3	0.7	0.3	0.3	
Pouiatoa Forest 6600 (TK)	4.1	4.9	4.4	4.1	4.7	4.7	4.0	3.7	3.5	3.7	3.7	2.9	0.6	0.6	0.8	0.2	0.5	4.1	0.3	4.0	0.6	0.2	0.3	0.2	0.7	0.3	0.3	
Pouiatoa Forest 6531 (TK)	4.6	5.0	4.6	4.6	4.9	4.9	4.4	4.1	4.0	4.1	4.1	3.4	0.8	0.8	0.9	0.6	0.9	4.3	0.8	4.1	0.8	0.6	0.8	0.5	0.7	0.3	0.3	
Waitawheta 3859 (BP)	1.7	2.1	2.0	2.0	2.3	2.0	1.8	5.2	5.0	4.9	5.2	4.1	3.8	3.5	3.7	3.7	3.5	0.5	3.8	0.6	3.5	3.7	3.8	3.8	4.0	0.7	0.7	
Waikaremoana 4115 (GB)	4.3	4.7	4.0	4.0	4.6	4.6	4.1	3.8	3.7	3.8	3.8	3.0	0.8	0.8	0.6	0.6	0.9	4.0	0.8	3.8	0.8	0.3	0.5	0.5	0.6	3.7	0.2	
Waikaremoana 4169 (GB)	4.3	4.7	4.3	4.3	4.6	4.6	4.1	3.5	3.4	3.5	3.5	3.0	0.8	0.8	0.6	0.6	0.9	4.0	0.8	3.8	0.8	0.3	0.5	0.5	0.6	3.7	0.3	