

Supplementary Tables

Supplementary Table 1. Summary of Hardy-Weinberg results for 9 polymorphic microsatellite markers for each ESU. Observed heterozygosity, H_O , and expected heterozygosity, H_E . Microsatellite markers deviating from Hardy-Weinberg Equilibrium expectations indicated in bold; * indicates non-significance after Bonferroni correction for multiple tests

ESU	Locus	H_O	H_E	P -value	s.d.
Brynderwyn Range	Lhoc05	0.526	0.626	0.0191*	0.0001
	Lhoc07	0.368	0.462	0.6075	0.0005
	Lhoc08	0.053	0.053	1	0
	Lhoc11	0.263	0.235	1	0
	Lhoc13	0.211	0.193	1	0
	Lhoc15	0.158	0.235	0.2588	0.0004
	Lhoc19	0.737	0.738	0.1099	0.0003
	Lhoc23	0.263	0.422	0.1246	0.0003
	Lhoc25	0.368	0.371	1	0
Northern Coromandel	Lhoc05	0.305	0.375	0.0622	0.0003
	Lhoc07	0.203	0.347	0.0033*	0.0001
	Lhoc08	0.119	0.113	1	0
	Lhoc11	0.034	0.034	1	0
	Lhoc13	0.136	0.160	0.3390	0.0005
	Lhoc15	0.102	0.159	0.0284*	0.0002
	Lhoc19	0.153	0.249	0.0113*	0.0001
	Lhoc23	0.017	0.017	1	0
Lhoc25	0.203	0.321	0.0071*	0.0001	
Central Coromandel	Lhoc05	0.310	0.376	0.2406	0.0004
	Lhoc07		Monomorphic		
	Lhoc08	0.103	0.160	0.1703	0.0004
	Lhoc11	0.345	0.336	0.1193	0.0003
	Lhoc13	0.172	0.160	1	0
	Lhoc15		Monomorphic		
	Lhoc19	0.172	0.195	0.2516	0.0005
	Lhoc23	0.172	0.163	1	0
	Lhoc25	0.552	0.635	0.4946	0.0005
Southern Coromandel	Lhoc05	0.429	0.581	0.0915	0.0003
	Lhoc07	0.029	0.029	1	0
	Lhoc08		Monomorphic		
	Lhoc11	0.057	0.056	1	0
	Lhoc13	0.000	0.056	0.0150*	0.0001
	Lhoc15		Monomorphic		
	Lhoc19	0.029	0.086	0.0150*	0.0001
	Lhoc23		Monomorphic		
Lhoc25	0.114	0.248	0.0102*	0.0001	
Otawa	Lhoc05		Monomorphic		
	Lhoc07		Monomorphic		
	Lhoc08		Monomorphic		
	Lhoc11		Monomorphic		
	Lhoc13		Monomorphic		
	Lhoc15		Monomorphic		
	Lhoc19	0.654	0.491	0.1140	0.0003
	Lhoc23		Monomorphic		
	Lhoc25		Monomorphic		

Supplementary Table 2. Supertype membership of *Leiopelma hochstetteri* MHC class II-DAB alleles

Supertype	<i>LehoDAB</i> allele	Supertype	<i>LehoDAB</i> allele
1	<i>LehoDAB</i> *03	3	<i>LehoDAB</i> *42
	<i>LehoDAB</i> *04		<i>LehoDAB</i> *44
	<i>LehoDAB</i> *09		<i>LehoDAB</i> *45
	<i>LehoDAB</i> *11		<i>LehoDAB</i> *46
	<i>LehoDAB</i> *12		<i>LehoDAB</i> *48
	<i>LehoDAB</i> *13		<i>LehoDAB</i> *52
	<i>LehoDAB</i> *20		<i>LehoDAB</i> *53
	<i>LehoDAB</i> *49		<i>LehoDAB</i> *56
	<i>LehoDAB</i> *57		<i>LehoDAB</i> *58
	<i>LehoDAB</i> *68		<i>LehoDAB</i> *59
<i>LehoDAB</i> *69	<i>LehoDAB</i> *61		
2	<i>LehoDAB</i> *08	<i>LehoDAB</i> *63	
	<i>LehoDAB</i> *14	<i>LehoDAB</i> *66	
	<i>LehoDAB</i> *16	<i>LehoDAB</i> *67	
	<i>LehoDAB</i> *22	<i>LehoDAB</i> *71	
	<i>LehoDAB</i> *27	<i>LehoDAB</i> *72	
	<i>LehoDAB</i> *40	<i>LehoDAB</i> *74	
	<i>LehoDAB</i> *41	<i>LehoDAB</i> *01	
	<i>LehoDAB</i> *43	<i>LehoDAB</i> *02	
	<i>LehoDAB</i> *60	<i>LehoDAB</i> *05	
	<i>LehoDAB</i> *65	<i>LehoDAB</i> *06	
3	<i>LehoDAB</i> *07	4	<i>LehoDAB</i> *23
	<i>LehoDAB</i> *10		<i>LehoDAB</i> *25
	<i>LehoDAB</i> *15		<i>LehoDAB</i> *29
	<i>LehoDAB</i> *17		<i>LehoDAB</i> *30
	<i>LehoDAB</i> *18		<i>LehoDAB</i> *32
	<i>LehoDAB</i> *19		<i>LehoDAB</i> *34
	<i>LehoDAB</i> *21		<i>LehoDAB</i> *39
	<i>LehoDAB</i> *24		<i>LehoDAB</i> *47
	<i>LehoDAB</i> *26		<i>LehoDAB</i> *50
	<i>LehoDAB</i> *28		<i>LehoDAB</i> *51
	<i>LehoDAB</i> *31		<i>LehoDAB</i> *54
	<i>LehoDAB</i> *33		<i>LehoDAB</i> *55
	<i>LehoDAB</i> *35		<i>LehoDAB</i> *62
	<i>LehoDAB</i> *36		<i>LehoDAB</i> *64
<i>LehoDAB</i> *37	<i>LehoDAB</i> *70		
<i>LehoDAB</i> *38	<i>LehoDAB</i> *73		

Supplementary Table 3. Summary of Mantel test results of isolation by distance at microsatellite markers, the MHC class II-DAB gene and the DAB supertypes

Marker type	R ²	<i>P</i> -value
Microsatellites	0.224	0.329
DAB	0.356	0.199
DAB supertypes	0.445	0.107

Supplementary Table 4. Population differentiation across 5 ESUs at MHC class II-DAB supertypes generated from cluster analysis based on positively selected sites predicted only from Mixed Effect Model of Evolution (MEME)

	Brynderwyn Range	Northern Coromandel	Central Coromandel	Southern Coromandel	Otawa
Brynderwyn Range		0.175	0.026	0.327	0.808
Northern Coromandel	0.077		0.029	0.011	0.313
Central Coromandel	0.013	0.011		0.127	0.544
Southern Coromandel	0.129	0.004	0.045		0.190
Otawa	0.513	0.234	0.357	0.149	

D_{EST} above diagonal (Jost 2008); G'_{ST} below diagonal (Hedrick 2005)