

**Supplementary Table S1.** Specimens used for genetic analyses, their collection locality and GenBank accession number.

Taxon	Location name (Crosby area)	GenBank
		Accessions
		16S
Arcitalitridae		
Kanikania longicornis (Stephensen, 1938)	Papatowai (Southland)	PP407053
Kanikania motuensis Duncan, 1994	Rakeahua (Stewart Island)	PP407050
Kanikania sp. nov. 1	Tin Range (Stewart Island)	PP407048
Genus A sp. nov. 1	Kohuroa, Te Paki Ecological District (Northland)	PQ154944
Genus A sp. nov. 2	Unuwhao, Te Paki Ecological District (Northland)	PQ154943
Genus A sp. nov. 3	Great Island (Three Kings Islands)	PQ154915
Genus A sp. nov. 4	North Cape (Northland)	PQ154916
Genus A sp. nov. 5	Bushy Park (Whanganui)	PQ154914
Genus L sp. nov. 1	Scott’s Beach, Kahurangi (Nelson)	PQ154939
Talitridae		
Bellorchestia quoyana (Milne-Edwards, 1840)	Waipū (Northland)	PQ154945
Dallwitzia simularis (Hurley, 1957)	North East Island (Snares Islands)	PQ154940
Genus N sp. nov. 1	North East Island (Three Kings Islands)	PQ154917
Subantarctorchestia aucklandiae (Spence Bate, 1862)	Stack Bay (Antipodes Island)	PQ154942
Tatahipeke tumida (Stebbing, 1887)	Kaimaumau (Northland)	PQ154946
Makawidae		
Dana hauturu (Duncan, 1994)	Little Barrier Island (Coromandel)	PP407063
Dana sylvicola (Dana, 1852)	Warawara Forest (Northland)	PP407059
Dana taranaki (Duncan, 1994)	Dawson Falls, Mt Taranaki (Taranaki)	PP407062
Deshurleyella kohuroa (Ball, Webber & Shepherd, 2017)	Unuwhao, Te Paki Ecological District (Northland)	KU896874
Deshurleyella reinga (Duncan, 1994)	Kohuroa, Te Paki Ecological District (Northland)	KU896868
Deshurleyella rereke (Ball, Webber & Shepherd, 2017)	Unuwhao, Te Paki Ecological District (Northland)	KU896875
Deshurleyella ringanohinohi (Ball, Webber & Shepherd, 2017)	Radar Bush, Te Paki Ecological District (Northland)	PQ154947
Deshurleyella sp. nov. 1	Broadwood (Northland)	PQ154935
Kohuroa kaitaia (Duncan, 1994)	Bream Head, Whangārei (Northland)	KU896879
Kohuroa muriwhenua (Duncan, 1994)	Radar Bush, Te Paki Ecological District (Northland)	KU896867

<i>Makawe hurleyi</i> (Duncan, 1968)	Riccarton Bush, Christchurch (Mid Canterbury)	PQ154896
<i>Oamaru otamatuakeke</i> (Duncan, 1994)	Oamaru (Dunedin)	PQ154930
<i>Omaiorchestia rubroannulata</i> (Hurley, 1957)	Limestone Island, Whangārei (Northland)	PP407071
<i>Omaiorchestia unuwahao</i> (Duncan, 1994)	Radar Bush, Te Pahi Ecological District (Northland)	PP407074
<i>Omaiorchestia</i> sp. nov. 1	North East Island (Three Kings Islands)	PP407073
<i>Omaiorchestia</i> sp. nov. 2	Kamo, Whangārei (Northland)	PP407070
<i>Parorchestia ihurawao</i> Duncan, 1994	Hampden (Dunedin)	PQ154899
<i>Parorchestia tenuis</i> (Dana, 1852)	Limestone Island, Whangārei (Northland)	KU896865
<i>Parorchestia</i> sp. nov. 1	Kaituna (Nelson)	PQ154890
<i>Parorchestia</i> sp. nov. 2	Takaka Hill (Nelson)	PQ154922
<i>Parorchestia</i> sp. nov. 3	Teal Valley (Nelson)	PQ154891
<i>Parorchestia</i> sp. nov. 4	Scott's Beach, Kahurangi (Nelson)	PQ154936
<i>Parorchestia</i> sp. nov. 5	Heaphy Hut East, Kahurangi (Nelson)	PQ154912
<i>Parorchestia</i> sp. nov. 6	Town Belt, Dunedin city (Dunedin)	PQ154931
<i>Parorchestia</i> sp. nov. 7	Lake Roe (Fiordland)	PQ154902
<i>Parorchestia</i> sp. nov. 8	Rakeahua (Stewart Island)	PQ154924
<i>Parorchestia</i> sp. nov. 9	Deadman's Track (Fiordland)	PQ154941
<i>Parorchestia</i> sp. nov. 10	Borland (Fiordland)	PQ154903
<i>Parorchestia</i> sp. nov. 11	Signal Hill, Dunedin city (Dunedin)	PQ154932
<i>Puhuruhuru aotearoa</i> Duncan, 1994	Broadwood (Northland)	PQ154934
<i>Puhuruhuru</i> sp. nov. 1	Wangapeka Valley (Nelson)	PQ154920
<i>Puhuruhuru</i> sp. nov. 2	Kaituna (Nelson)	PQ154907
<i>Puhuruhuru</i> sp. nov. 3	Maitai Valley (Nelson)	PQ154921
<i>Puhuruhuru</i> sp. nov. 4	Scott's Beach, Kahurangi (Nelson)	PQ154936
<i>Sinbadorchestia sinbadensis</i> (Hurley, 1957)	Homer Cirque (Fiordland)	PQ154901
<i>Snaresorchestia patersoni</i> (Stephensen, 1938)	Oamaru (Dunedin)	PQ154900
<i>Waematau manawatahi</i> Duncan, 1994	Great Island (Three Kings Islands)	KU896882
Genus B sp. nov. 1	Dawson Falls, Mt Taranaki (Taranaki)	PQ154892
Genus B sp. nov. 2	Maitai Valley (Nelson)	PQ154894
Genus C sp. nov. 1	Scott's Beach, Kahurangi (Nelson)	PQ154909
Genus D sp. nov. 1	Heaphy Hut East, Kahurangi (Nelson)	PQ154910
Genus D sp. nov. 2	Teal Valley (Nelson)	PQ154923
Genus D sp. nov. 3	Heaphy Hut East, Kahurangi (Nelson)	PQ154908

Genus E sp. nov. 1	Secretary Island (Fiordland)	PQ154911
Genus F sp. nov. 1	Rakeahua (Stewart Island)	PQ154895
Genus F sp. nov. 2	Rakeahua (Stewart Island)	PQ154925
Genus G sp. nov. 1	Aorangi Forest (Wairarapa)	PQ154897
Genus H sp. nov. 1	Mt Cargill (Dunedin)	PQ154928
Genus H sp. nov. 2	Grebe Valley (Fiordland)	PQ154933
Genus J sp. nov. 1	Mt Cargill (Dunedin)	PQ154926
Genus J sp. nov. 2	Mt Cargill (Dunedin)	PQ154929
Genus J sp. nov. 3	Rakeahua (Stewart Island)	PQ154898
Genus J sp. nov. 4	Mt Cargill (Dunedin)	PQ154927
Genus K sp. nov. 1	Secretary Island (Fiordland)	PQ154906
Genus K sp. nov. 2	Shy Lake (Fiordland)	PQ154905
Genus K sp. nov. 3	Dawson Falls, Mt Taranaki (Taranaki)	PQ154893
Genus K sp. nov. 4	Resolution Island (Fiordland)	PQ154904
<b>Exotic species (all Arcitalitridae)</b>		
<i>Arcitalitrus dorrieni</i> (Hunt, 1925)	Maungakaramea, Whangārei (Northland)	PQ154913
<i>Arcitalitrus sylvaticus</i> (Haswell, 1879)	Maitai Valley (Nelson)	PQ154918
<i>Arcitalitrus</i> sp. 24	Mission Bay (Auckland)	OQ515321
<b>Hyalidae (used as outgroup)</b>		
<i>Apohyale papanuiensis</i> Kilgallen, 2011	Waipū (Northland)	PQ154938