

## Supplementary Material

### **Cryptic diversity down under: defining species in the subterranean amphipod genus *Nedsia* Barnard and Williams (Hadzioidea: Eriopisidae) from the Pilbara, Western Australia**

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**Table S1. Sequenced material used in the analysis**

GenBank accession numbers and Australian Biological Tissue Collection (ABTC), at the SA Museum, voucher numbers included. Sources: TF, Terrie Finston; WAM, Western Australian Museum; Biota, Biota Environmental Sciences Pty Ltd; KS, Kathy Saint, SA Museum; RL, Remko Leijs, SA Museum; SE, Subterranean Ecology Pty Ltd; EFJ, Erinn Fagan-Jeffries, University of Adelaide; Bennelongia, Bennelongia Environmental Consultants

Sequence ID	Source	Bore code	Latitude	Longitude	GenBank number (COI)	GenBank number (28S)	ABTC voucher number	Haplotype name	Molecular clade	Identification
wc17	TF	wc17	-21.9391	114.1078	OK170025			wc17	A1	<i>Nedsia douglasi</i>
wc30	TF	wc30	-21.9612	114.103	OK170026			wc30	A1	<i>Nedsia douglasi</i>
16543_1	WAM/EFJ	wc30	-21.9626	114.103	OK169946	OK256976	157335	16543_1	A1	<i>Nedsia douglasi</i> <sup>A</sup>
16543_2	WAM/EFJ	wc30	-21.9626	114.103	OK169947		157336	16543_2	A1	<i>Nedsia douglasi</i> <sup>A</sup>
BF21	TF	X62P2-2011-01	-20.7337	115.4221	OK169950			BF21	A2	<i>Nedsia hurlberti</i>
BF39	TF	S2P2	-20.7758	115.448				BF21	A2	<i>Nedsia hurlberti</i>
BF40	TF	S7P2	-20.808	115.4161				BF21	A2	<i>Nedsia hurlberti</i>
BL16	TF	MW32-0511-01	-20.7697	115.4693				BF21	A2	<i>Nedsia hurlberti</i>
BL18	TF	GW01	-20.7869	115.4598				MW13	A2	<i>Nedsia hurlberti</i>
BL57	TF	MW03	-20.7713	115.4632	OK169955			BL57	A2	<i>Nedsia hurlberti</i>
BU10	TF	MW28P2	-20.7831	115.4648				MW13	A2	<i>Nedsia hurlberti</i>
BU52	TF	MW25P2	-20.7783	115.4682				BF21	A2	<i>Nedsia hurlberti</i>
L12	TF	A4	-20.7688	115.418				BF21	A2	<i>Nedsia hurlberti</i>
L42	TF	S2	-20.7758	115.448				BF21	A2	<i>Nedsia hurlberti</i>
L65	TF	S3	-20.7766	115.4572	OK169980			L65_D	A2	<i>Nedsia hurlberti</i>
L7_LCOI	TF	GW03	-20.7908	115.4575				MW13	A2	<i>Nedsia hurlberti</i>
L99	TF	S7	-20.808	115.4161				BF21	A2	<i>Nedsia hurlberti</i>
L100	TF	S7	-20.808	115.4161				BF21	A2	<i>Nedsia hurlberti</i>
L117	TF	x62m	-20.7336	115.4219				BF21	A2	<i>Nedsia hurlberti</i>
MW13	TF	MW13	-20.7808	115.4669	OK169954	OK256996	157379	MW13	A2	<i>Nedsia hurlberti</i>
N1_mw13_102a	TF	MW13	-20.7808	115.4669				MW13	A2	<i>Nedsia hurlberti</i>
N1t_B4_20_1	TF	B4	-20.7867	115.4576				BF21	A2	<i>Nedsia hurlberti</i>
BII_1	Biota/EFJ	MW13	-20.8841	115.3839				BF21	A2	<i>Nedsia hurlberti</i> <sup>A</sup>
BII_2	Biota/EFJ	MW13	-20.8841	115.3839				BF21	A2	<i>Nedsia hurlberti</i> <sup>A</sup>
BII_3	Biota/EFJ	MW13	-20.8841	115.3839				BF21	A2	<i>Nedsia hurlberti</i> <sup>A</sup>
N1c	TF	MW7	-20.8103	115.3844	OK169983			N1c	A2	<i>Nedsia hurlberti</i>
MW7	TF	MW7	-20.8103	115.3844				N1c	A2	<i>Nedsia hurlberti</i>
BF13_X62P2_2011_01	TF	X62m	-20.7336	115.4219	OK169949			BF13	A2	<i>Nedsia hurlberti</i>
cob12	TF	cob12	-23.3255	117.7406	OK169960			cob12	A3	<i>Nedsia wyloo</i>
cob12_2	TF	cob12	-23.3255	117.7406	OK169961			cob12_2	A3	<i>Nedsia wyloo</i>
pf010	TF	pf010	-23.3713	117.8482				pf010	A3	<i>Nedsia wyloo</i>
pf09	TF	pf09	-23.3684	117.9598	OK169995			pf09	A3	<i>Nedsia wyloo</i> <sup>A</sup>
12936_1	WAM/EFJ	Stone tank well bore	-24.0268	116.1242	OK169942	OK256989	157331	12936	A4	<i>Nedsia wanna</i> <sup>A</sup>
pt03	TF	pt03	-23.1881	117.6774	OK169997			pt03	A5	Not described
pt03_2	TF	pt03	-23.1881	117.6774	OK169998			pt03_2	A5	Not described
No_19	KS	NWSLK58	-22.4646	116.0363	OK169988	OK256982	157346	No_19	A6	<i>Nedsia nanutarra</i>
No_20	KS	NWSLK58	-22.4646	116.0363		OK256984	157374	No_19	A6	<i>Nedsia nanutarra</i>
No_21	KS	NWSLK58	-22.4646	116.0363				No_19	A6	<i>Nedsia nanutarra</i>
ST1417	RL	snake well	-22.4355	115.7219	OK170024	OK256977	157370	ST1417	A6	<i>Nedsia nanutarra</i> <sup>A</sup>
G398_Tabba	TF	Tabba tabba	-20.3706	118.9494	OK169970			SE117_1	A7	<i>Nedsia shawensis</i>
G399_UNK1	TF	UNK1	-20.2902	119.1037	OK169971			G399	A7	<i>Nedsia shawensis</i>

Sequence ID	Source	Bore code	Latitude	Longitude	GenBank number (COI)	GenBank number (28S)	ABTC voucher number	Haplotype name	Molecular clade	Identification
G405_PDRC2467	TF	PDRC2467	-20.2471	119.1122	OK169974			G405	A7	<i>Nedsia shawensis</i>
SE117_1	SE/EFJ	MBSLK376W	-20.3706	118.9494		OK256992	157376	SE117_1	A7	<i>Nedsia shawensis</i> <sup>A</sup>
SE117_2	SE/EFJ	MBSLK376W	-20.3706	118.9494		OK256993	157377	SE117_1	A7	<i>Nedsia shawensis</i> <sup>A</sup>
SE117_3	SE/EFJ	MBSLK376W	-20.3706	118.9494		OK256994	157378	SE117_1	A7	<i>Nedsia shawensis</i> <sup>A</sup>
SELN047_1	SE/EFJ	MBSLK376E	-20.7094	119.3374	OK170018	OK256995	157367	SELN047_1	A7	<i>Nedsia shawensis</i> <sup>A</sup>
SELN047_3	SE/EFJ	MBSLK376E	-20.7094	119.3374				SELN047_1	A7	<i>Nedsia shawensis</i> <sup>A</sup>
SELN117_1	SE/EFJ	MBSLK376W	-20.7094	119.3369				SELN047_1	A7	<i>Nedsia shawensis</i> <sup>A</sup>
SELN117_2	SE/EFJ	MBSLK376W	-20.7094	119.3369				SELN047_1	A7	<i>Nedsia shawensis</i> <sup>A</sup>
SELN117_3	SE/EFJ	MBSLK376W	-20.7094	119.3369				SELN047_1	A7	<i>Nedsia shawensis</i> <sup>A</sup>
G396_PDRC2460	TF	PDRC2460	-20.2472	119.1133	OK169968			G396	A8	<i>Nedsia shawensis</i>
G406_PDRC2474	TF	PDRC2474	-20.2472	119.1133				G396	A8	<i>Nedsia shawensis</i>
G397_Shed Well	TF	Shed Well	-20.4392	118.9893	OK169969			G_397_Shed	A9	<i>Nedsia shawensis</i>
MBSLK376W	TF	MBSLK376W	-20.7096	119.3372	OK169981			MBSLK376W	A9	<i>Nedsia shawensis</i> <sup>A</sup>
MBSLK388W	TF	MBSLK388W	-20.68	119.2452	OK169982			MBSLK388W	A9	<i>Nedsia shawensis</i>
SE1175b_1	SE/EFJ	Coppings Bore	-21.0767	118.8879	OK170010		157359	SE1175b_1	A9	<i>Nedsia shawensis</i> <sup>A</sup>
SE1175b_2	SE/EFJ	Coppings Bore	-21.0767	118.8879	OK170011	OK256990	157360	SE1175b_2	A9	<i>Nedsia shawensis</i> <sup>A</sup>
SE1175b_3	SE/EFJ	Coppings Bore	-21.0767	118.8879	OK170012	OK256991	157361	SE1175b_3	A9	<i>Nedsia shawensis</i> <sup>A</sup>
12925_2	WAM/EFJ	Quobba Station well	-24.0154	113.4799	OK169940		157329	12925_2	B1	<i>Nedsia quobba</i> <sup>A</sup>
12925_3	WAM/EFJ	Quobba station well	-24.0154	113.4799	OK169941	OK256988	157330	12925_3	B1	<i>Nedsia quobba</i> <sup>A</sup>
No_22	KS	NWSLK58	-22.4646	116.0363	OK169989		157347	No_22	B10	<i>Nedsia erinnae</i>
No_24	KS	NWSLK58	-22.4646	116.0363	OK169990		157348	No_24	B10	<i>Nedsia erinnae</i>
No_25	KS	NWSLK58	-22.4646	116.0363	OK169991	OK256985	157350	No_25	B10	<i>Nedsia erinnae</i>
No_26	KS	NWSLK58	-22.4646	116.0363				No_22	B10	<i>Nedsia erinnae</i>
No_27	KS	NWSLK58	-22.4646	116.0363	OK169992	OK256986	157350	No_27	B10	<i>Nedsia erinnae</i>
sge1m4	TF	sge1m4	-22.2967	117.3177	OK170019			sge1m4	B11	Not described
EU304458	Genbank	sge1m4_2	-22.2967	117.3177	EU304458			EU304458	B11	Not described
SE0095_3	SE/EFJ	Spring in Weelumurra Creek	-22.1388	117.7252	OK170028	OK256987	157371	SE0095_3	B12	<i>Nedsia weelumurra</i> <sup>A</sup>
SE7807_3	SE/EFJ	SM0345, Kangeenarina Creek	-22.1244	117.8683	OK170014	OK257005	157363	SE7807_3	B12	<i>Nedsia weelumurra</i> <sup>A</sup>
G105_107879b	TF	107879b	-22.1587	117.8641	OK169964			G105	B13	<i>Nedsia weelumurra</i>
G106_108034d	TF	108034d	-22.1459	117.803	OK169965			G106	B13	<i>Nedsia weelumurra</i>
G190_100095a	TF	100095a, Weelumurra Creek	-22.1388	117.7252				SE0095_2	B13	<i>Nedsia weelumurra</i> <sup>A</sup>
G451	TF	G451_11:0351	-22.1388	117.7249				SE0095_2	B13	<i>Nedsia weelumurra</i> <sup>A</sup>
SE0095_1	TF	Spring in Weelumurra Creek	-22.1388	117.7252		OK256999	157381	SE0095_1	B13	<i>Nedsia weelumurra</i> <sup>A</sup>
SE0095_2	SE/EFJ	Spring in Weelumurra Creek	-22.1388	117.7252	OK169967	OK257000	157341	SE0095_2	B13	<i>Nedsia weelumurra</i> <sup>A</sup>
SE0882_3	SE/EFJ	Spring in Weelumurra Creek	-22.1388	117.7249	OK170005		157354	SE0882_3	B13	<i>Nedsia weelumurra</i> <sup>A</sup>
SE0882_1	SE/EFJ	Spring in Weelumurra Creek	-22.1388	117.7249	OK170007		157356	SE0882_1	B13	<i>Nedsia weelumurra</i> <sup>A</sup>
SE1105_2	SE/EFJ	Spring in Weelumurra Creek	-22.1388	117.7249	OK170009	OK257001	157358	SE1105_2	B13	<i>Nedsia weelumurra</i> <sup>A</sup>
SE1105_3	SE/EFJ	Spring in Weelumurra Creek	-22.1388	117.7249		OK257003	157382	SE1105_3	B13	<i>Nedsia weelumurra</i> <sup>A</sup>
SE1105_1	SE/EFJ	Spring in Weelumurra Creek	-22.1388	117.7249	OK170008	OK257002	157357	SE1105_1	B13	<i>Nedsia weelumurra</i> <sup>A</sup>
SE7807_1	SE/EFJ	SM0345, Kangeenarina Creek	-22.1244	117.8683	OK170013	OK257004	157362	SE7807_1	B13	<i>Nedsia weelumurra</i> <sup>A</sup>
SE7807_2	SE/EFJ	SM0345, Kangeenarina Creek	-22.1244	117.8683		OK257006		SE7807_2	B13	<i>Nedsia weelumurra</i> <sup>A</sup>
bun0731	TF	bun0731	-21.88	116.4585	OK169958			bun0731	B2	Not described
bun0731_2	TF	bun0731	-21.88	116.4585	OK169957			bun0731_2	B2	Not described
bun0863	TF	bun0863	-21.88	116.4585				bun0731	B2	Not described
bun0863_2	TF	bun0863	-21.88	116.4585				bun0731_2	B2	Not described
rr3a	TF	rr3a-2b	-21.5497	115.8639	OK170001			rr3a	B3	<i>Nedsia robensis</i>
rr3a_2	TF	rr3a-2b	-21.5497	115.8639	OK170002			rr3a_2	B3	<i>Nedsia robensis</i>
rr4a	TF	rr4a	-21.5684	115.8454	OK170003			rr4a	B3	<i>Nedsia robensis</i>
16186_1	WAM/EFJ	na	-21.8186	116.707	OK169945	OK256997	157334	16186_1	B3	<i>Nedsia robensis</i> <sup>A</sup>
16186_2	WAM/EFJ	na	-21.8186	116.707				16186_1	B3	<i>Nedsia robensis</i> <sup>A</sup>

Sequence ID	Source	Bore code	Latitude	Longitude	GenBank number ( <i>COI</i> )	GenBank number (28S)	ABTC voucher number	Haplotype name	Molecular clade	Identification
16186_4	WAM/EFJ	na	-21.8186	116.707		OK256998	157380	16186_4	B3	<i>Nedsia robenis</i> <sup>A</sup>
BL12	TF	GW05-0511-03	-20.7725	115.4617	OK169953			BL12	B4	<i>Nedsia mcraeae</i>
BL9	TF	GW05-0511-03	-20.7725	115.4617	OK169956			BL9	B4	<i>Nedsia mcraeae</i>
nr5miwelld	TF	nr5miwell	-21.6044	115.923	OK169994			nr5miwelld	B4	<i>Nedsia mcraeae</i>
Rrcp1a	TF	rrcp1a	-21.5754	115.8826	OK170004			rrcp1a	B4	<i>Nedsia mcraeae</i>
sherylbore	TF	sherylbore	-21.5406	115.8327	OK170020			sherylbore	B4	<i>Nedsia mcraeae</i>
amw18	TF	amw18	-20.8707	115.4063	OK169948			amw18	B5	<i>Nedsia macrosculptilis</i> <sup>A</sup>
BF30	TF	L8	-20.8191	115.3919	OK169951			BF30	B5	<i>Nedsia macrosculptilis</i>
BF7	TF	S8P2	-20.8131	115.4259				L90	B5	<i>Nedsia macrosculptilis</i>
BF9	TF	M52P2	-20.8077	115.4081				L90	B5	<i>Nedsia macrosculptilis</i>
L102	TF	S5	-20.7981	115.4348	OK169977			L102	B5	<i>Nedsia macrosculptilis</i>
L109	TF	L8	-20.8191	115.3919	OK169978			L109	B5	<i>Nedsia macrosculptilis</i>
L15	TF	S8	-20.8131	115.4259				L90	B5	<i>Nedsia macrosculptilis</i>
L36	TF	S8	-20.8131	115.4259	OK169979			L36	B5	<i>Nedsia macrosculptilis</i>
L38	TF	S6	-20.8012	115.44555				L102	B5	<i>Nedsia macrosculptilis</i>
L50	TF	L8	-20.8191	115.3919				BF30	B5	<i>Nedsia macrosculptilis</i>
L56	TF	L8	-20.8191	115.3919				L109	B5	<i>Nedsia macrosculptilis</i>
L60	TF	L8	-20.8191	115.3919		OK257007	157383	L90	B5	<i>Nedsia macrosculptilis</i>
L61	TF	L8	-20.8191	115.3919				L90	B5	<i>Nedsia macrosculptilis</i>
L8	TF	GW03	-20.7755	115.4639				BF30	B5	<i>Nedsia macrosculptilis</i>
L81	TF	S6	-20.8012	115.4455				L102	B5	<i>Nedsia macrosculptilis</i>
L86	TF	L35j	-20.8085	115.3875				L90	B5	<i>Nedsia macrosculptilis</i>
L90	TF	S8	-20.8131	115.4259	OK169952	OK257009	157337	L90	B5	<i>Nedsia macrosculptilis</i>
L4nr	TF	L4nr	-20.8173	115.3951				L90	B5	<i>Nedsia macrosculptilis</i>
N2_amw18_101	TF	amw18	-20.8707	115.4063				amw18	B5	<i>Nedsia macrosculptilis</i>
N2_L4nr	TF	L4nr	-20.8173	115.3951				L90	B5	<i>Nedsia macrosculptilis</i>
N2_L8_107a	TF	L8	-20.8191	115.3919				BF30	B5	<i>Nedsia macrosculptilis</i>
N2_L8_107b	TF	L8	-20.8191	115.3919	OK169984			N2_L8_107b	B5	<i>Nedsia macrosculptilis</i>
No_10	KS	NWSLK176	-22.9755	116.9687	OK169986	OK256980	157344	No_10	B6	<i>Nedsia cheela</i>
No_11	KS	NWSLK176	-22.9755	116.9687				No_10	B6	<i>Nedsia cheela</i>
No_13	KS	NWSLK176	-22.9755	116.9687				No_10	B6	<i>Nedsia cheela</i>
No_14	KS	NWSLK176	-22.9755	116.9687				No_10	B6	<i>Nedsia cheela</i>
No_15	KS	NWSLK176	-22.9755	116.9687	OK169987	OK256981	157345	No_15	B6	<i>Nedsia cheela</i>
No_16	KS	NWSLK176	-22.9755	116.9687				No_10	B6	<i>Nedsia cheela</i>
No_17	KS	NWSLK176	-22.9755	116.9687				No_10	B6	<i>Nedsia cheela</i>
No_18	KS	NWSLK176	-22.9755	116.9687				No_10	B6	<i>Nedsia cheela</i>
No_1	KS	Pannasl24	-21.6638	116.1373	OK169985	OK256979	157343	No_1	B7	<i>Nedsia yarraloola</i>
No_2	KS	Pannasl24	-21.6638	116.1373	OK169993	OK256983	157351	No_2	B7	<i>Nedsia yarraloola</i>
No_3	KS	Pannasl24	-21.6638	116.1373				No_2	B7	<i>Nedsia yarraloola</i>
No_5	KS	Pannasl24	-21.6638	116.1373				No_2	B7	<i>Nedsia yarraloola</i>
No_6	KS	Pannasl24	-21.6638	116.1373				No_2	B7	<i>Nedsia yarraloola</i>
No_7	KS	Pannasl24	-21.6638	116.1373				No_2	B7	<i>Nedsia yarraloola</i>
No_8	KS	Pannasl24	-21.6638	116.1373				No_2	B7	<i>Nedsia yarraloola</i>
No_9	KS	Pannasl24	-21.6638	116.1373				No_2	B7	<i>Nedsia yarraloola</i>
KB1-1_2	Biota/EFJ	KB1-1	-22.0364	116.165	OK169976		157342	KB1_1_2	B8	<i>Nedsia pannawonica</i> <sup>A</sup>
KB1-1_3	Biota/EFJ	KB1-3	-22.0364	116.165		OK256978	157375	KB1_1_2	B8	<i>Nedsia pannawonica</i> <sup>A</sup>
RHN1	Biota/EFJ	RHN1	-21.9064	116.1286	OK170000		157353	RHN1_3	B8	<i>Nedsia pannawonica</i> <sup>A</sup>
CBWB2	Biota/EFJ	CBWB002	-22.2236	116.2533	OK169959	OK257007	157338	CBWB2_3	B9	<i>Nedsia canensis</i> <sup>A</sup>
EXR1611R	TF	EXR1611R	-22.1041	118.9956	OK169962			EXR1611R	Gen. nov.	Eriopisidae gen. undet.
G104	SE/EFJ	Bore in Zion deposit, Solomon mine	-22.1626	117.8943	OK169963		157339	G104	Gen. nov.	Eriopisidae gen. undet.

Sequence ID	Source	Bore code	Latitude	Longitude	GenBank number (COI)	GenBank number (28S)	ABTC voucher number	Haplotype name	Molecular clade	Identification
G185_100087	SE/EFJ	Cappers Well, Kangeenarina Creek	-22.0624	117.9994	OK169966		157340	G185	Gen. nov.	Eriopisidae gen. undet.
G401_PDPIEZ21s	TF	PDPIEZ21s	-20.2417	119.1194	OK169972			G401	Gen. nov.	Eriopisidae gen. undet.
G402	TF	Pardoo Mine, PDRC1088	-20.2778	119.0996	OK169973			G402	Gen. nov.	Eriopisidae gen. undet.
G497	TF	FMG	-21.2075	119.0897	OK169975			G497	Gen. nov.	Eriopisidae gen. undet.
Pm01a	TF	PM01A	-23.2309	117.5897	OK169996			PM01A	Gen. nov.	Eriopisidae gen. undet.
SSWB40	TF	SSWB40, near Sulphur Springs	-21.1022	119.1901	OK170021			SSWB40	Gen. nov.	Eriopisidae gen. undet.
YOB1	TF	YOB1	-20.6113	120.2661	OK170027			YOB1	Gen. nov.	Eriopisidae gen. undet.
RBM6	Bennelongia/EFJ	RBM6	-20.8306	117.847	OK169999		157352	RBM6	Gen. nov.	Eriopisidae gen. undet. <sup>A</sup>
SE0087_R	SE/EFJ	Cappers Well, Kangeenarina Creek	-22.0624	117.9994	OK170006	OK257012	157355	SE0087	Gen. nov.	Eriopisidae gen. undet. <sup>A</sup>
SE7951	SE/EFJ	Bore in Zion deposit, Solomon mine	-22.1626	117.8943	OK170015	OK257013	157364	SE7951	Gen. nov.	Eriopisidae gen. undet. <sup>A</sup>
SELN041_1	SE/EFJ	SSWB40, near Sulphur Springs	-21.1022	119.19	OK170016		157365	SELN041_1	Gen. nov.	Eriopisidae gen. undet. <sup>A</sup>
SELN041_2	SE/EFJ	SSWB40, near Sulphur Springs	-21.1022	119.19	OK170017		157366	SELN041_2	Gen. nov.	Eriopisidae gen. undet. <sup>A</sup>
ST1415cons	RL	Cork Tree Well, Cane River CP	-22.3561	115.50984	OK170023		157368	ST1415	Gen. nov.	Eriopisidae gen. undet. <sup>A</sup>
ST1414cons	RL	Cork Tree Well, Cane River CP	-22.3561	115.50984	OK170022		157369	ST1414	Gen. nov.	Eriopisidae gen. undet. <sup>A</sup>
<i>Norcapensis</i> sp.	TF	na	na	na	JQ608487			<i>Norcapensis</i>	<i>Norcapensis</i>	<i>Norcapensis mandibulis</i>
13412_1	WAM/EFJ	Cape Range	-22.1508	114.0039	OK169943	OK257010	157332	13412_1	<i>Norcapensis</i>	<i>Norcapensis mandibulis</i> <sup>A</sup>
13412_2	WAM/EFJ	Cape Range	-22.1508	114.0039	OK169944	OK257011	157333	13412_2	<i>Norcapensis</i>	<i>Norcapensis mandibulis</i> <sup>A</sup>
13412_3	WAM/EFJ	Cape Range	-22.1508	114.0039				13412_3	<i>Norcapensis</i>	<i>Norcapensis mandibulis</i> <sup>A</sup>
<i>Nurina poulteri</i>	RL	Nurina Cave, Nullarbor	-32.0333	127.0167	OK170030		157373	Nurina_ST387	outgroup	<i>Nurina poulteri</i>
<i>Brachina invasa</i>	RL	Lubra Water, Flinders Ranges	-31.3359	138.6013	OK170029		157372	Brachina_ST1039	outgroup	<i>Brachina invasa</i> <sup>A</sup>

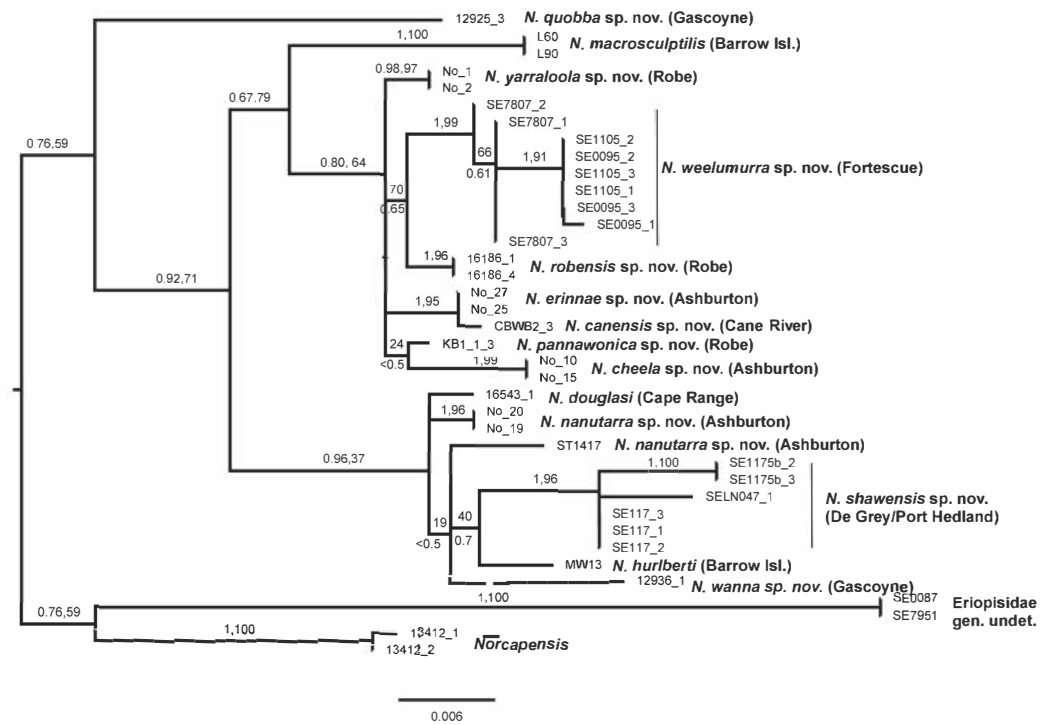
<sup>A</sup>Specimens examined for morphology.

**Table S2. Synapomorphic (among *Nedsia* taxa) sites for *COI* and *28S* data for *Nedsia* species identified using PAUP\***  
in, insertion; -, no synapomorphic sites identified relative to other *Nedsia* lineages

Lineage	28S (790-bp alignment, 38 taxa)	COI (473-bp alignment, 90 taxa)
A1 ( <i>N. douglasi</i> )	-	-
A2 ( <i>N. hurlberti</i> )	-	210(G)
A3	-	415(C)
A4	-	81(T) 153(G)
A5	-	-
A6	-	471(T) 229(T)
A7/A8	-	-
A9	-	-
A10	27(C) 571(T)	315(G) 405(T)
B1	634(C) 610(C)	159(T) 182(C) 256(T) 360(T) 395(C) 426(T)
B2	-	-
B3	210(G)	426(G)
B4	-	-
B5 ( <i>N. macrosculptilis</i> )	233(T) 281(AT in) 299(A) 341(A) 718(T)	-
B6	-	432(T)
B7	194(G)	261(G) 408(C)
B8	171(T)	255(G) 351(C) 352(C) 360(G) 367(A) 447(C)
B9	-	234(C)
B10	-	234(T)
B11	-	362(G) 393(C) 467(G)
B13	722(G) 736(C)	-
B9/B10	610(A) 635(C)	135(T)



**Fig.S1.** Bayesian inference phylogeny of *Nedsia* species based on *COI* data derived using MrBayes (separate partitions, GTR+I+G model). Numbers on branches represent posterior probabilities.



**Fig. S2.** Bayesian inference phylogeny of *Nedsia* based on 28S data, derived using MrBayes, with separate partitions for each codon position. Numbers on branches represent posterior probabilities from Bayesian Inference (left hand side) and ML bootstrap values as a percentage (right hand side).