

Supplementary Table S3. List of sequences used for the phylogenetic relationships within the genus *Sinanodonta* with respective haplotypes, localities, voucher numbers or specimen codes, and GenBank references. Acronyms for the voucher deposit institutions as follows: CIIMAR – Interdisciplinary Centre of Marine and Environmental Research, Porto, Portugal; MHS – Matsuyama High School, Japan; NCSM – North Carolina Museum of Natural Sciences, U.S.A.; NCU – Nanchang University, China; NNIBR – Nakdonggang National Institute of Biological Resources, South Korea; OMNH – Osaka Museum of Natural History, Japan; RMBH – Russian Museum of Biodiversity Hotspots, Arkhangelsk, Russia.

Reference	Species	Haplotype	Latitude	Longitude	River/Lake	Region	Country	Voucher	Study
INGROUP									
MG463053	<i>Sinanodonta angula</i>	41	-----	-----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU143	Huang et al 2019 [17]
MG463054	<i>Sinanodonta angula</i>	43	-----	-----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU142	Huang et al 2019 [17]
MG463055	<i>Sinanodonta angula</i>	40	-----	-----	Yangtze basin	Hunan	China	NCU 16_XPWU_SU141	Huang et al 2019 [17]
MG463056	<i>Sinanodonta angula</i>	42	-----	-----	Yangtze basin	Hunan	China	NCU 16_XPWU_SU140	Huang et al 2019 [17]
MG463057	<i>Sinanodonta angula</i>	39	-----	-----	Yangtze basin	Hunan	China	NCU 16_XPWU_SU139	Huang et al 201 9 [17]
MT020628	<i>Sinanodonta calipygos</i>	67	40.7035	141.3258	Anemuma Lake	Aomori	Japan	MHS SCAM-01	Lopes-Lima et al 2020 [18]
MT020628	<i>Sinanodonta calipygos</i>	67	40.7035	141.3258	Anemuma Lake	Aomori	Japan	MHS SCAM-02	Lopes-Lima et al 2020 [18]
MT020624	<i>Sinanodonta calipygos</i>	63	34.8225	135.4182	Kanzaki River	Osaka	Japan	MHS SCOS-01	Lopes-Lima et al 2020 [18]
MT020624	<i>Sinanodonta calipygos</i>	63	35.2929	136.2219	Biwa Lake	Shiga	Japan	MHS SCSG-01	Lopes-Lima et al 2020 [18]
MT020624	<i>Sinanodonta calipygos</i>	63	35.2929	136.2219	Biwa Lake	Shiga	Japan	MHS SCSG-02	Lopes-Lima et al 2020 [18]
MT020625	<i>Sinanodonta calipygos</i>	64	35.2929	136.2219	Biwa Lake	Shiga	Japan	MHS SCSG-03	Lopes-Lima et al 2020 [18]
MT020626	<i>Sinanodonta calipygos</i>	65	35.2929	136.2219	Biwa Lake	Shiga	Japan	MHS SCSG-04	Lopes-Lima et al 2020 [18]
MT020626	<i>Sinanodonta calipygos</i>	65	35.2929	136.2219	Biwa Lake	Shiga	Japan	MHS SCSG-05	Lopes-Lima et al 2020 [18]
MT020627	<i>Sinanodonta calipygos</i>	66	35.2929	136.2219	Biwa Lake	Shiga	Japan	MHS SCSG-06	Lopes-Lima et al 202 [18]0
MT020623	<i>Sinanodonta calipygos</i>	62	35.1484	136.0431	Biwa Lake	Shiga	Japan	MHS SC_Shiga_4	Lopes-Lima et al 2020 [18]
KJ434488	<i>Sinanodonta cf. elliptica</i>	29	-----	-----	Yangtze basin	-----	China	NCU 110ANWP2	Uyang et al Unp.
KJ434489	<i>Sinanodonta cf. elliptica</i>	29	-----	-----	Yangtze basin	-----	China	NCU 164ANWP3	Uyang et al Unp.
KJ434490	<i>Sinanodonta cf. elliptica</i>	29	-----	-----	Yangtze basin	-----	China	NCU 176ANWP4	Uyang et al Unp.
MG463058	<i>Sinanodonta cf. elliptica</i>	32	-----	-----	Yangtze basin	-----	China	NCU 16_XPWU_SU148	Huang et al 2019 [17]
MG463059	<i>Sinanodonta cf. elliptica</i>	32	-----	-----	Yangtze basin	-----	China	NCU 16_XPWU_SU149	Huang et al 2019 [17]
MG463061	<i>Sinanodonta cf. elliptica</i>	29	-----	-----	Yangtze basin	-----	China	NCU 16_XPWU_SU145	Huang et al 2019 [17]
MG463062	<i>Sinanodonta cf. elliptica</i>	29	-----	-----	Yangtze basin	-----	China	NCU 16_XPWU_SU146	Huang et al 2019 [17]
MG463063	<i>Sinanodonta cf. elliptica</i>	32	-----	-----	Yangtze basin	-----	China	NCU 16_XPWU_SU147	Huang et al 2019 [17]
MG463064	<i>Sinanodonta cf. elliptica</i>	35	-----	-----	Yangtze basin	-----	China	NCU 16_XPWU_SU151	Huang et al 2019 [17]
MG463065	<i>Sinanodonta cf. elliptica</i>	31	-----	-----	Yangtze basin	-----	China	NCU 16_XPWU_SU150	Huang et al 2019 [17]
MG463067	<i>Sinanodonta cf. elliptica</i>	33	-----	-----	Yangtze basin	-----	China	NCU 16_XPWU_SU157	Huang et al 2019 [17]
MG463071	<i>Sinanodonta cf. elliptica</i>	32	-----	-----	Yangtze basin	-----	China	NCU 16_XPWU_SU156	Huang et al 2019 [17]
MG463072	<i>Sinanodonta cf. elliptica</i>	30	-----	-----	Yangtze basin	-----	China	NCU 16_XPWU_SU163	Huang et al 2019 [17]

MG463074	<i>Sinanodonta cf. elliptica</i>	29	----	----	Yangtze basin	----	China	NCU 16_XPWU_SU165	Huang et al 2019 [17]
MG463077	<i>Sinanodonta cf. elliptica</i>	34	----	----	Yangtze basin	----	China	NCU 16_XPWU_SU168	Huang et al 2019 [17]
MG463079	<i>Sinanodonta cf. elliptica</i>	29	----	----	Yangtze basin	----	China	NCU 16_XPWU_SU170	Huang et al 2019 [17]
MG933740	<i>Sinanodonta cf. elliptica</i>	31	----	----	Yangtze basin	----	China	NCU BM 20180254	Wu et al 2018 [96]
MG933741	<i>Sinanodonta cf. elliptica</i>	34	----	----	Yangtze basin	----	China	NCU BM 20180255	Wu et al 2018 [96]
MG933742	<i>Sinanodonta cf. elliptica</i>	29	----	----	Yangtze basin	----	China	NCU BM 20180256	Wu et al 2018 [96]
KX822668	<i>Sinanodonta jourdyi</i>	15	21.8855	106.563	Tu Đồn	Đông Bắc	Vietnam	NCSM 84916.01	Lopes-Lima et al 2017 [90]
SUBMITTED	<i>Sinanodonta jourdyi</i>	15	21.8855	106.563	Tu Đồn	Đông Bắc	Vietnam	NCSM 84916.02	THIS STUDY
SUBMITTED	<i>Sinanodonta jourdyi</i>	16	21.3269	103.9190	Day River	Tây Bắc	Vietnam	NCSM 84948	THIS STUDY
SUBMITTED	<i>Sinanodonta jourdyi</i>	82	18.5314	105.7230	----	Bắc Trung Bộ	Vietnam	NCSM 47207.01	THIS STUDY
SUBMITTED	<i>Sinanodonta jourdyi</i>	82	18.5314	105.7230	----	Bắc Trung Bộ	Vietnam	NCSM 47207.02	THIS STUDY
SUBMITTED	<i>Sinanodonta jourdyi</i>	82	18.5314	105.7230	----	Bắc Trung Bộ	Vietnam	NCSM 47207.03	THIS STUDY
SUBMITTED	<i>Sinanodonta jourdyi</i>	14	21.3269	103.9190	Day River	Tây Bắc	Vietnam	NCSM 84952.02	THIS STUDY
SUBMITTED	<i>Sinanodonta jourdyi</i>	14	21.3269	103.9190	Day River	Tây Bắc	Vietnam	NCSM 84952.03	THIS STUDY
SUBMITTED	<i>Sinanodonta jourdyi</i>	84	21.9333	104.6310	----	Đông Bắc	Vietnam	NCSM 84953	THIS STUDY
SUBMITTED	<i>Sinanodonta jourdyi</i>	83	21.3243	105.4030	----	Đông Bắc	Vietnam	NCSM 84980	THIS STUDY
KY561635	<i>Sinanodonta jourdyi</i>	16	----	----	----	----	Vietnam	RMBH biv_91_1	Bolotov et al 2017 [9]
KY978744	<i>Sinanodonta jourdyi</i>	15	----	----	----	----	Vietnam	RMBH biv_91_2	Bespalaya et al 2018 [96]
KY978745	<i>Sinanodonta jourdyi</i>	14	----	----	----	----	Vietnam	RMBH biv_91_3	Bespalaya et al 2018 [96]
MT020609	<i>Sinanodonta lauta</i>	46	34.8639	126.9772	Tamjin River	Hwasun-gun	South Korea	NNIBR IV29267	Lopes-Lima et al 2020 [18]
MT020632	<i>Sinanodonta lauta</i>	71	36.5527	129.4187	Song Stream	Yeongdeok-gun	South Korea	NNIBR IV29268	Lopes-Lima et al 2020 [18]
MT020633	<i>Sinanodonta lauta</i>	72	36.3799	128.4406	Nakdong River	Uiseon-gun	South Korea	NNIBR IV29249	Lopes-Lima et al 2020 [18]
MT020634	<i>Sinanodonta lauta</i>	73	35.4232	127.2211	Seomjin River	Sunchang-gun	South Korea	NNIBR IV29239	Lopes-Lima et al 2020 [18]
MT020635	<i>Sinanodonta lauta</i>	74	35.0204	126.8529	Yeongsan River	Naju-si	South Korea	NNIBR IV29269	Lopes-Lima et al 2020 [18]
MT020636	<i>Sinanodonta lauta</i>	75	35.9977	128.9181	Nakdong River	Yeongcheon-si	South Korea	NNIBR IV29270	Lopes-Lima et al 2020 [18]
KY561633	<i>Sinanodonta lauta</i>	37	55.9891	92.8699	Yenisei River	Krasnoyarsk	Russia	RMBH biv_191_1	Bolotov et al 2017 [9]
KY978737	<i>Sinanodonta lauta</i>	37	55.9891	92.8699	Yenisei River	Krasnoyarsk	Russia	RMBH biv_191_4	Bespalaya et al 2018 [96]
KY978739	<i>Sinanodonta lauta</i>	37	55.9891	92.8699	Yenisei River	Krasnoyarsk	Russia	RMBH biv_191_6	Bespalaya et al 2018 [96]
KY978740	<i>Sinanodonta lauta</i>	37	55.9891	92.8699	Yenisei River	Krasnoyarsk	Russia	RMBH biv_191_7	Bespalaya et al 2018 [96]
KY978741	<i>Sinanodonta lauta</i>	37	55.9891	92.8699	Yenisei River	Krasnoyarsk	Russia	RMBH biv_191_9	Bespalaya et al 2018 [96]
KY978742	<i>Sinanodonta lauta</i>	36	42.7065	130.9084	Gladkaya River	Primorye	Russia	RMBH biv_225_1	Bespalaya et al 2018 [96]
KY978743	<i>Sinanodonta lauta</i>	36	42.7065	130.9084	Gladkaya River	Primorye	Russia	RMBH biv_225_2	Bespalaya et al 2018 [96]
MT020606	<i>Sinanodonta lauta</i>	36	42.8293	132.8849	Solenoye Lake	Primorye	Russia	RMBH biv_457_7	Lopes-Lima et al 2020 [18]
AB040832	<i>Sinanodonta lauta</i>	50	----	----	----	----	Japan	----	Okazaki M Unp.
MT020614	<i>Sinanodonta lauta</i>	51	34.7159	133.9835	Asahi River	Okayama	Japan	MHS MSj-okB	Lopes-Lima et al 2020 [18]
MT020613	<i>Sinanodonta lauta</i>	50	34.8023	135.0145	Shijimi River	Hyougo	Japan	MHS Hyougo_7	Lopes-Lima et al 2020 [18]

MT020613	<i>Sinanodonta lauta</i>	50	33.0134	130.6384	Kikuchi River	Kumamoto	Japan	MHS Kumamoto_A	Lopes-Lima et al 2020 [18]
MT020614	<i>Sinanodonta lauta</i>	51	34.7159	133.9835	Asahi River	Okayama	Japan	MHS MSI-okB	Lopes-Lima et al 2020 [18]
MT020640	<i>Sinanodonta lauta</i>	79	36.1264	139.4715	Oshikawa River	Saitama	Japan	MHS MSI-snA	Lopes-Lima et al 2020 [18]
MT020617	<i>Sinanodonta lauta</i>	54	36.1120	139.7740	Tone River	Ibaraki	Japan	MHS S _lauta_Ibaraki	Lopes-Lima et al 2020 [18]
MT020616	<i>Sinanodonta lauta</i>	53	34.8570	137.9463	Ohta River	Shizuoka	Japan	MHS S _lauta_Shizuoka	Lopes-Lima et al 2020 [18]
MT020617	<i>Sinanodonta lauta</i>	54	36.0555	139.8376	Tone River	Chiba	Japan	MHS SLCB-03	Lopes-Lima et al 2020 [18]
MT020630	<i>Sinanodonta lauta</i>	69	33.6583	130.7247	Onga River	Fukuoka	Japan	MHS SLFO-01	Lopes-Lima et al 2020 [18]
MT020630	<i>Sinanodonta lauta</i>	69	33.3931	130.433	Raizan River	Fukuoka	Japan	MHS SLFO-02	Lopes-Lima et al 2020 [18]
MT020631	<i>Sinanodonta lauta</i>	70	33.6373	130.4789	Tatara River	Fukuoka	Japan	MHS SLFO-03	Lopes-Lima et al 2020 [18]
MT020613	<i>Sinanodonta lauta</i>	50	33.6373	130.4789	Tatara River	Fukuoka	Japan	MHS SLFO-04	Lopes-Lima et al 2020 [18]
MT020613	<i>Sinanodonta lauta</i>	50	33.6884	130.9593	Imagawa River	Fukuoka	Japan	MHS SLFO-05	Lopes-Lima et al 2020 [18]
MT020608	<i>Sinanodonta lauta</i>	45	33.6583	130.7247	Onga River	Fukuoka	Japan	MHS SLFO-06	Lopes-Lima et al 2020 [18]
MT020638	<i>Sinanodonta lauta</i>	77	43.0129	144.4240	Kushiro River	Hokkaido	Japan	MHS SLHK-01	Lopes-Lima et al 2020 [18]
MT020637	<i>Sinanodonta lauta</i>	76	42.5680	141.3260	Shiraoi River	Hokkaido	Japan	MHS SLHK-02	Lopes-Lima et al 2020 [18]
MT020617	<i>Sinanodonta lauta</i>	54	35.8872	140.1412	Tone River	Ibaraki	Japan	MHS SLIB-01	Lopes-Lima et al 2020 [18]
MT020639	<i>Sinanodonta lauta</i>	78	36.5435	136.6694	Saigawa River	Ishikawa	Japan	MHS SLIK-01	Lopes-Lima et al 2020 [18]
MT020613	<i>Sinanodonta lauta</i>	50	32.7572	130.7288	Midori River	Kumamoto	Japan	MHS SLKM-01	Lopes-Lima et al 2020 [18]
MT020613	<i>Sinanodonta lauta</i>	50	32.0635	130.3469	Kometsu River	Kagoshima	Japan	OMNH-Mo-39123-1	Lopes-Lima et al 2020 [18]
MT020613	<i>Sinanodonta lauta</i>	50	32.0635	130.3469	Kometsu River	Kagoshima	Japan	OMNH-Mo-39123-2	Lopes-Lima et al 2020 [18]
MT020613	<i>Sinanodonta lauta</i>	50	32.0635	130.3469	Kometsu River	Kagoshima	Japan	OMNH-Mo-39123-3	Lopes-Lima et al 2020 [18]
MT020613	<i>Sinanodonta lauta</i>	50	32.0635	130.3469	Kometsu River	Kagoshima	Japan	MHS SLKS-04	Lopes-Lima et al 2020 [18]
MT020614	<i>Sinanodonta lauta</i>	51	34.7141	133.9771	Asahi River	Okayama	Japan	MHS SLOY-01	Lopes-Lima et al 2020 [18]
MT020642	<i>Sinanodonta lauta</i>	81	34.7141	133.9771	Asahi River	Okayama	Japan	MHS SLOY-02	Lopes-Lima et al 2020 [18]
MT020629	<i>Sinanodonta lauta</i>	68	35.2929	136.2219	Biwa Lake	Shiga	Japan	MHS SLSG-01	Lopes-Lima et al 2020 [18]
MT020630	<i>Sinanodonta lauta</i>	69	35.2929	136.2219	Biwa Lake	Shiga	Japan	MHS SLSG-02	Lopes-Lima et al 2020 [18]
MT020641	<i>Sinanodonta lauta</i>	80	35.2929	136.2219	Biwa Lake	Shiga	Japan	MHS SLSG-03	Lopes-Lima et al 2020 [18]
KX822667	<i>Sinanodonta lucida</i>	44	-----	-----	Yangtze basin	-----	China	-----	Lopes-Lima et al 2017 [90]
MG463066	<i>Sinanodonta lucida</i>	44	-----	-----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU152	Huang et al 2019 [17]
MG933735	<i>Sinanodonta lucida</i>	44	-----	-----	Yangtze basin	-----	China	NCU BM 20180249	Wu et al 2018 [96]
NC_026673	<i>Sinanodonta lucida</i>	44	-----	-----	Yangtze basin	-----	China	-----	Song et al 2016 [97]
MT020618	<i>Sinanodonta schrenkii</i>	55	36.0219	127.7467	Han River	Wonju-si	South Korea	NNIBR IV29271	Lopes-Lima et al 2020 [18]
MT020619	<i>Sinanodonta schrenkii</i>	56	36.1899	127.1710	Geum River	Nonsan-si	South Korea	NNIBR B048	Lopes-Lima et al 2020 [18]
MT020620	<i>Sinanodonta schrenkii</i>	57	35.4224	127.2228	Seomjin River	Sunchang-gun	South Korea	NNIBR IV29234	Lopes-Lima et al 2020 [18]
MT020620	<i>Sinanodonta schrenkii</i>	57	35.9143	126.7076	Mangyeong River	Gunsan-si	South Korea	NNIBR IV29272	Lopes-Lima et al 2020 [18]
MT020621	<i>Sinanodonta schrenkii</i>	59	36.2461	126.6296	Ungcheon Stream	Boryeong-si	South Korea	NNIBR IV29245	Lopes-Lima et al 2020 [18]
GQ451867	<i>Sinanodonta schrenkii</i>	58	-----	-----	-----	-----	South Korea	-----	Park et al Unp.

GQ451868	<i>Sinanodonta schrenkii</i>	60	----	----	----	----	South Korea	----	Park et al Unp.
MK574238	<i>Sinanodonta schrenkii</i>	38	----	----	Ilistaya River	Primorye	Russia	CIIMAR BIV1528	Bolotov et al 2020 [15]
KU853266	<i>Sinanodonta schrenkii</i>	38	43.5481	131.8931	Razdolnaya River	Primorye	Russia	348	Sayenko et al 2017 [98]
KU853267	<i>Sinanodonta schrenkii</i>	38	----	----	Arkharu River	Amur	Russia	349	Sayenko et al 2017 [98]
KU853268	<i>Sinanodonta schrenkii</i>	38	44.7136	132.6502	Khanka Lake	Primorye	Russia	384	Sayenko et al 2017 [98]
KU853269	<i>Sinanodonta schrenkii</i>	38	----	----	Khanka Lake	Primorye	Russia	395	Sayenko et al 2017 [98]
MT020607	<i>Sinanodonta schrenkii</i>	38	45.8212	133.5731	Arsenievka River	Primorye	Russia	RMBH biv_451_1	Lopes-Lima et al 2020 [18]
MT020607	<i>Sinanodonta schrenkii</i>	38	44.9189	131.9613	Khanka Lake basin	Primorye	Russia	RMBH biv_452_2	Lopes-Lima et al 2020 [18]
MT020607	<i>Sinanodonta schrenkii</i>	38	44.9189	131.9613	Khanka Lake basin	Primorye	Russia	RMBH biv_452_3	Lopes-Lima et al 202 [18]0
MT020611	<i>Sinanodonta schrenkii</i>	48	44.9189	131.9613	Khanka Lake basin	Primorye	Russia	RMBH biv_458_1	Lopes-Lima et al 2020 [18]
MT020612	<i>Sinanodonta schrenkii</i>	49	45.8212	133.5731	Arsenievka River	Primorye	Russia	RMBH biv_451_2	Lopes-Lima et al 2020 [18]
MT020612	<i>Sinanodonta schrenkii</i>	49	45.8212	133.5731	Arsenievka River	Primorye	Russia	RMBH biv_451_3	Lopes-Lima et al 2020 [18]
MT020622	<i>Sinanodonta tumens</i>	61	34.8718	135.6754	Yodo River	Osaka	Japan	MHS afk156	Lopes-Lima et al 2020 [18]
MT020622	<i>Sinanodonta tumens</i>	61	35.2929	136.2219	Biwa lake	Shiga	Japan	MHS Og11_02_CFRH	Lopes-Lima et al 2020 [18]
MT020615	<i>Sinanodonta cf. woodiana</i> 1	52	35.3778	136.9302	Kiso River	Aichi	Japan	MHS SLAC-01	Lopes-Lima et al 2020 [18]
MT020605	<i>Sinanodonta cf. woodiana</i> 1	17	36.0555	139.8376	Tone River	Chiba	Japan	MHS SLCB-01	Lopes-Lima et al 2020 [18]
MT020605	<i>Sinanodonta cf. woodiana</i> 1	17	36.0555	139.8376	Tone River	Chiba	Japan	MHS SLCB-02	Lopes-Lima et al 2020 [18]
MT020605	<i>Sinanodonta cf. woodiana</i> 1	17	35.9185	139.536	Arakawa River	Saitama	Japan	MHS SLST-01	Lopes-Lima et al 2020 [18]
MT020610	<i>Sinanodonta cf. woodiana</i> 1	47	36.0302	140.3067	Kasumigaura Lake	Ibaraki	Japan	MHS SLIB-02	Lopes-Lima et al 2020 [18]
MT020610	<i>Sinanodonta cf. woodiana</i> 1	47	35.8560	140.0353	Teganuma Lake	Ibaraki	Japan	MHS SLIB-03	Lopes-Lima et al 2020 [18]
KU318377	<i>Sinanodonta cf. woodiana</i> 1	17	----	----	----	----	Singapore	ASW1	Ng et al 2016 [99]
KX424967	<i>Sinanodonta cf. woodiana</i> 1	17	----	----	----	----	Phillipines	HL_UN1	Fornillos et al Unp.
KX424968	<i>Sinanodonta cf. woodiana</i> 1	17	----	----	----	----	Phillipines	SH_UN2	Fornillos et al Unp.
KX424969	<i>Sinanodonta cf. woodiana</i> 1	17	----	----	----	----	Phillipines	SH_UN4	Fornillos et al Unp.
KX424970	<i>Sinanodonta cf. woodiana</i> 1	17	----	----	----	----	Phillipines	SH_UN5	Fornillos et al Unp.
KX424971	<i>Sinanodonta cf. woodiana</i> 1	24	----	----	----	----	Phillipines	HL_SW3	Fornillos et al Unp.
KX424972	<i>Sinanodonta cf. woodiana</i> 1	24	----	----	----	----	Phillipines	HL_SW4A	Fornillos et al Unp.
KX424973	<i>Sinanodonta cf. woodiana</i> 1	24	----	----	----	----	Phillipines	HL_SW5B	Fornillos et al Unp.
KX424974	<i>Sinanodonta cf. woodiana</i> 1	17	----	----	----	----	Phillipines	HL_SW7A	Fornillos et al Unp.
KX424975	<i>Sinanodonta cf. woodiana</i> 1	17	----	----	----	----	Phillipines	HL_SW8B	Fornillos et al Unp.
KX424976	<i>Sinanodonta cf. woodiana</i> 1	17	----	----	----	----	Phillipines	HL_UN6	Fornillos et al Unp.
KX424977	<i>Sinanodonta cf. woodiana</i> 1	17	----	----	----	----	Phillipines	HL_UN8	Fornillos et al Unp.
KX424978	<i>Sinanodonta cf. woodiana</i> 1	24	----	----	----	----	Phillipines	HL_UN10	Fornillos et al Unp.
KX424979	<i>Sinanodonta cf. woodiana</i> 1	24	----	----	----	----	Phillipines	HL_UN12	Fornillos et al Unp.
MH319867	<i>Sinanodonta cf. woodiana</i> 1	17	----	----	----	----	Phillipines	UGSB 19577	Stelbrink et al 2019 [101]
MH319868	<i>Sinanodonta cf. woodiana</i> 1	17	----	----	----	----	Phillipines	UGSB 19578	Stelbrink et al 2019 [101]

KX051315	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	21	----	----	----	----	Malaysia	X149	Zieritz et al 2016 [100]
KX051316	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	19	----	----	----	----	Malaysia	X205	Zieritz et al 2016 [100]
KX051317	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	20	----	----	----	----	Malaysia	X224	Zieritz et al 2016 [100]
KX051318	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	17	----	----	----	----	Malaysia	CIIMAR BIV1778	Zieritz et al 2016 [100]
KX051319	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	20	----	----	----	----	Malaysia	CIIMAR BIV1605	Zieritz et al 2016 [100]
KX051320	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	17	----	----	----	----	Malaysia	CIIMAR BIV1691	Zieritz et al 2016 [100]
KX051321	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	17	----	----	----	----	Malaysia	CIIMAR BIV1793	Zieritz et al 2016 [100]
KX051322	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	20	----	----	----	----	Malaysia	X130	Zieritz et al 2016 [100]
KX051323	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	20	----	----	----	----	Malaysia	X117	Zieritz et al 2016 [100]
KX051324	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	19	----	----	----	----	Malaysia	X227	Zieritz et al 2016 [100]
KX051325	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	18	----	----	----	----	Malaysia	X134	Zieritz et al 2016 [100]
KX051326	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	17	----	----	----	----	Malaysia	X128	Zieritz et al 2016 [100]
KX051327	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	17	----	----	----	----	Malaysia	X98	Zieritz et al 2016 [100]
KX051328	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	22	----	----	----	----	Malaysia	S003	Zieritz et al 2016 [100]
MG591509	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	19	----	----	----	----	Malaysia	x372	Zieritz et al 2016 [100]
MG591510	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	19	----	----	----	----	Malaysia	x354	Zieritz et al 2016 [100]
MG591511	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	19	----	----	----	----	Malaysia	x363	Zieritz et al 2016 [100]
MG591512	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	23	----	----	----	----	Malaysia	x306	Zieritz et al 2016 [100]
MG591513	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	23	----	----	----	----	Malaysia	CIIMAR BIV2669	Zieritz et al 2016 [100]
MG591514	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	23	----	----	----	----	Malaysia	x304	Zieritz et al 2016 [100]
MG591515	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	20	----	----	----	----	Malaysia	x297	Zieritz et al 2016 [100]
MG591516	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	19	----	----	----	----	Malaysia	x284	Zieritz et al 2016 [100]
MG591517	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	19	----	----	----	----	Malaysia	x289	Zieritz et al 2016 [100]
MG591518	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	23	----	----	----	----	Malaysia	x301	Zieritz et al 2016 [100]
MG591519	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	19	----	----	----	----	Malaysia	x294	Zieritz et al 2016 [100]
MT020605	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	17	----	----	----	----	Indonesia	MHS Indonesia	Lopes-Lima et al 2020 [18]
KU891641	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	17	----	----	----	----	Indonesia	RMBH wood1	Bolotov et al 2016 [52]
KU891642	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	17	----	----	----	----	Indonesia	RMBH wood2	Bolotov et al 2016 [52]
KJ434487	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	25	----	----	----	----	China	NCU 107ANWP1	Uyang et al Unp.
MG463048	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	28	----	----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU158	Huang et al 2019 [17]
MG463049	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	26	----	----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU159	Huang et al 2019 [17]
MG463050	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	27	----	----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU160	Huang et al 2019 [17]
MG463051	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	26	----	----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU161	Huang et al 2019 [17]
MG463052	<i>Sinanodonta</i> cf. <i>woodiana</i> 1	25	----	----	Poyang Lake	Jiangxi	China	NCU 16_XPWU_SU162	Huang et al 2019 [17]
MG581711	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	3	----	----	Amu Darya River	Xorazm	Uzbekistan	RMBH biv_279_1	Kondakov et al 2018 [55]
MG581712	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	3	----	----	Amu Darya River	Xorazm	Uzbekistan	RMBH biv_279_2	Kondakov et al 2018 [55]

JQ253893	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	----	----	Ukraine	PB22	Yanovich et al Unp.
JQ253894	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	----	----	Ukraine	PB23	Yanovich et al Unp.
LC310750	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	----	----	Spain	----	Clusa et al 2017 [101]
LC310751	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	----	----	Spain	----	Clusa et al 2017 [101]
KY978735	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Yenisei River	Krasnoyarsk	Russia	RMBH biv_191_2	Bespalaya et al 2018 [96]
KY978736	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Yenisei River	Krasnoyarsk	Russia	RMBH biv_191_3	Bespalaya et al 2018 [96]
KY978738	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Yenisei River	Krasnoyarsk	Russia	RMBH biv_191_5	Bespalaya et al 2018 [96]
MG515741	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Danube River	Svinita	Romania	ROSV 21	Konečný et al 2018 [102]
MG515742	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Prut River	Vadeni	Romania	ROVA 11	Konečný et al 2018 [102]
AF468683	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	----	----	Poland	----	Soroka 2005 [104]
EF440349	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	----	----	Poland	----	Soroka 2010 [105]
HQ283344	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Odra River	West. Pomerania	Poland	AW19	Soroka & Burzynski Unp.
HQ283345	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Odra River	West. Pomerania	Poland	AW22	Soroka 2010 [105]
HQ283346	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Konin Lake	Wielkopolska	Poland	AW124	Soroka 2010 [105]
HQ283347	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Konin Lake	Wielkopolska	Poland	AW123	Soroka & Burzynski Unp.
HQ283348	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Konin Lake	Wielkopolska	Poland	AW125	Soroka & Burzynski Unp.
KJ125078	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Polna River	----	Poland	354	Soroka et al 2014 [106]
KJ125079	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Danube River	----	Hungary	375	Vikhrev et al 2017 [107]
MG515740	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Konin Lake	Wielkopolska	Poland	PLKO 19	Konečný et al 2018 [102]
MF497807	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Irrawaddy River	Bamo	Myanmar	RMBH biv_269_15	Vikhrev et al 2017 [107]
MF497808	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Irrawaddy River	Bamo	Myanmar	RMBH biv_269_16	Vikhrev et al 2017 [107]
MF497809	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Irrawaddy River	Bamo	Myanmar	RMBH biv_269_17	Vikhrev et al 2017 [107]
KF731775	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Maggiore Lake	Piemonte	Italy	M21	Guarneri et al 2014 [108]
KF731776	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Po River	----	Italy	P15	Guarneri et al 2014 [108]
KF731777	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Po River	----	Italy	P32	Guarneri et al 2014 [108]
MF414328	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.0895	12.1532	Trasimeno Lake	----	Italy	CIIMAR IT111	Froufe et al 2017 [109]
MF414329	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.0895	12.1532	Trasimeno Lake	----	Italy	CIIMAR IT112	Froufe et al 2017 [109]
MF414330	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.0875	11.929	Montepulciano Lake	----	Italy	CIIMAR IT131	Froufe et al 2017 [109]
MF414331	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.0875	11.929	Montepulciano Lake	----	Italy	CIIMAR IT132	Froufe et al 2017 [109]
MF414332	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.0875	11.929	Montepulciano Lake	----	Italy	CIIMAR IT133	Froufe et al 2017 [109]
MF414333	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.0875	11.929	Montepulciano Lake	----	Italy	CIIMAR IT134	Froufe et al 2017 [109]
MF414334	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.0875	11.929	Montepulciano Lake	----	Italy	CIIMAR IT135	Froufe et al 2017 [109]
MF414335	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.0875	11.929	Montepulciano Lake	----	Italy	CIIMAR IT136	Froufe et al 2017 [109]
MF414336	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	41.1865	14.4636	Volturno River	----	Italy	CIIMAR IT203	Froufe et al 2017 [109]
MF414337	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	41.1865	14.4636	Volturno River	----	Italy	CIIMAR IT204	Froufe et al 2017 [109]
MF414338	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	10	43.8223	11.1336	Bisenzio River	----	Italy	CIIMAR IT216	Froufe et al 2017 [109]

MF414339	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.8223	11.1336	Bisenzio River	----	Italy	CIIMAR IT217	Froufe et al 2017 [109]
MF414340	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.8223	11.1336	Bisenzio River	----	Italy	CIIMAR IT218	Froufe et al 2017 [109]
MF414341	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.8223	11.1336	Bisenzio River	----	Italy	CIIMAR IT219	Froufe et al 2017 [109]
MF414342	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	43.8223	11.1336	Bisenzio River	----	Italy	CIIMAR IT220	Froufe et al 2017 [109]
MF414343	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Po River		Italy	CIIMAR SW1	Froufe et al 2017 [109]
MF414344	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Po River		Italy	CIIMAR SW2	Froufe et al 2017 [109]
MF414345	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Marcova River		Italy	CIIMAR SW24	Froufe et al 2017 [109]
MF414346	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Marcova River		Italy	CIIMAR SW26	Froufe et al 2017 [109]
MF414347	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Pusiano Lake	----	Italy	CIIMAR SW28	Froufe et al 2017 [109]
MF414348	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Pusiano Lake	----	Italy	CIIMAR SW29	Froufe et al 2017 [109]
MF414349	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Pusiano Lake	----	Italy	CIIMAR SW30	Froufe et al 2017 [109]
MF414350	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Pusiano Lake	----	Italy	CIIMAR SW31	Froufe et al 2017 [109]
MF414351	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Marcova River		Italy	CIIMAR SW32	Froufe et al 2017 [109]
MF414352	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Marcova River		Italy	CIIMAR SW33	Froufe et al 2017 [109]
MG515739	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	----		France	FR 1	Konečný et al 2018 [102]
MG515737	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Kyjovka River	----	Czech Rep.	CZKY 1	Konečný et al 2018 [102]
MG515738	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	----	Trebonsko	Czech Rep.	CZTR 2	Konečný et al 2018 [102]
KJ434482	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Yangtze basin	----	China	NCU 117ANWE1	Uyang et al Unp.
KJ434483	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	6	----	----	Yangtze basin	----	China	NCU 119ANWE2	Uyang et al Unp.
KJ434484	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Yangtze basin	----	China	NCU 121ANWE3	Uyang et al Unp.
KJ434485	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Yangtze basin	----	China	NCU 177ANWE4	Uyang et al Unp.
KJ434486	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	9	----	----	Yangtze basin	----	China	NCU 179ANWE5	Uyang et al Unp.
MG463060	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU144	Huang et al 2019 [17]
MG463068	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	7	----	----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU154	Huang et al 2019 [17]
MG463069	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	6	----	----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU153	Huang et al 2019 [17]
MG463070	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Yangtze basin	Hubei	China	NCU 16_XPWU_SU155	Huang et al 2019 [17]
MG463073	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	8	----	----	Yangtze basin	Hubei	China	NCU 16_XPWU_SU164	Huang et al 2019 [17]
MG463075	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	9	----	----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU166	Huang et al 2019 [17]
MG463076	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	5	----	----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU167	Huang et al 2019 [17]
MG463078	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Yangtze basin	Jiangxi	China	NCU 16_XPWU_SU169	Huang et al 2019 [17]
MG463080	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	4	----	----	Yangtze basin	----	China	NCU 16_XPWU_SU171	Huang et al 2019 [17]
MG515732	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	13	----	----	Baoan Lake	----	China	CNBA 25	Konečný et al 2018 [102]
MG515733	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	12	----	----	Baoan Lake	----	China	CNBA 26	Konečný et al 2018 [102]
MG515734	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Baoan Lake	----	China	CNBA 27	Konečný et al 2018 [102]
MG515735	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Yangtze basin	Nanchang	China	CNNA 1	Konečný et al 2018 [102]
MG515736	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	11	----	----	Yangtze basin	Nanchang	China	CNNA 14	Konečný et al 2018 [102]

MG933736	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	8	----	----	Yangtze basin	----	China	NCU BM 20180250	Wu et al 2018 [96]
MG933737	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	5	----	----	Yangtze basin	----	China	NCU BM 20180251	Wu et al 2018 [96]
MG933738	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Yangtze basin	----	China	NCU BM 20180252	Wu et al 2018 [96]
MG933739	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	4	----	----	Yangtze basin	----	China	NCU BM 20180253	Wu et al 2018 [96]
NC_024943	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	2	----	----	Yangtze basin	----	China	----	Zhang et al 2016 [110]
MG515731	<i>Sinanodonta</i> cf. <i>woodiana</i> 2	1	----	----	Iskar River	----	Bulgaria	BGIS 1	Konečný et al 2018 [102]
OUTGROUP									
SUBMITTED	<i>Cristaria truncata</i>	----	22.5522	106.3966	Bằng River	Đông Bắc	Vietnam	IEBR FM CT02?	THIS STUDY
SUBMITTED	<i>Pletholophus honglinhensis</i>	----	18.5314	105.7234	Hong Lin	Bắc Trung Bộ	Vietnam	NCSM 47211.1	THIS STUDY
MH293546	<i>Gibbosula crassa</i>	----	44.9143	142.5843	Bằng River	Đông Bắc	Vietnam	IEBR FM GC01	Lopes-Lima et al 2020 [18]