

Table S2. Genbank accessible *coxI* sequences used in this study.

Species	Mitotype	Reference	Accession
<i>Alasmidonta marginata</i>	F	[13]	HM849059
<i>Alasmidonta undulata</i>	F	[13]	HM849061
<i>Anodonta anatina</i>	F	[54]	EF440347
	M	[59]	KF030963
<i>Anodonta cygnea</i>	H	This study	
<i>Cumberlandia monodonta</i>	F	[13]	HM849068
	M	[12]	KU873124
<i>Cyclonaias tuberculata</i>	H	[81]	HM230410
<i>Echyridella menziesii</i>	F	[13]	HM849074
	M	[12]	KU873122
<i>Ellipsaria lineolata</i>	F	[13]	HM849071
<i>Fusconaia flava</i>	F	[81]	HM230370
<i>Lampsilis powellii</i>	F	Unpublished; Robicheau et al.	MF326971
	M	Unpublished; Robicheau et al.	MF326972
<i>Lampsilis siliquoidea</i>	F	Unpublished; Robicheau et al.	MF326973
	M	Unpublished; Robicheau et al.	MF326974
<i>Lasmigona complanata</i>	F	[13]	HM849078
<i>Lasmigona compressa</i>	H	[13]	HM849085
<i>Lasmigona costata</i>	F	[13]	HM849089
<i>Lasmigona subviridis</i>	H	[13]	HM849092
<i>Lemiox rimosus</i>	F	[81]	HM230406
<i>Margaritifera falcata</i>	H	[13]	HM849094
<i>Margaritifera margaritifera</i>	F	[13]	HM849098
<i>Margaritifera marrianae</i>	F	[13]	HM849094
<i>Megaloniais nervosa</i>	F	[82]	AY655007
<i>Potamilus alatus</i>	M	[60]	KU559010
<i>Potamilus metnecktayi</i>	F	[13]	HM849099
<i>Pyganodon grandis</i>	F	[13]	HM849107
<i>Pyganodon lacustris</i>	F	[13]	HM849114
<i>Quadrula houstonesis</i>	F	[83]	KT285649
<i>Reginaia ebena</i>	F	[13]	HM849072
<i>Sinoanodonta woodiana</i>	F	Soroka and Burzyński, unpublished	HQ283347
<i>Solenia carinata</i>	M	[61]	KC848655
<i>Strophitus undulatus</i>	F	[13]	HM849122
<i>Toxolasma glans</i>	F	[13]	HM849128
<i>Toxolasma lividus</i>	F	[81]	JF326436
<i>Toxolasma parvum</i>	H	[13]	HM849154
<i>Toxolasma paulus</i>	F	[13]	HM849164
<i>Toxolasma texasiensis</i>	F	[82]	AY655023
<i>Truncilla macrodon</i>	F	[83]	KT285658
<i>Unio delphinus</i>	F	[76]	KP217927
	M	[79]	KT326918
<i>Unio tumidus</i>	F	[62]	AY074807
	M	[80]	KY021075
<i>Utterbackia imbecillis</i>	H	[13]	HM849174
<i>Utterbackia peggyae</i>	F	[13]	HM849191
<i>Utterbackia peninsularis</i>	F	[13]	HM849198
	M	[13]	HM856635
<i>Venustaconcha ellipsiformis</i>	F	[85]	KC537304
<i>Villosa iris</i>	F	[13]	HM849201