

Table S1. List of *Anodonta anatina* (Linnaeus, 1758) COI sequences used in this study.

Voucher/Code	Lineage	Country	Freshwater Basin	Basin	Latitude	Longitude	COI seq. acc. number	Reference
biv156/1	EUR2	Russia	Indiga River	Arctic Basin	67.5012° N	49.3144° E	KY328448	Bolotov et al., 2020
biv156/2	EUR2	Russia	Indiga River		67.5012° N	49.3144° E	KY328449	Bolotov et al., 2020
biv156/3	EUR2	Russia	Indiga River		67.5012° N	49.3144° E	KY328450	Bolotov et al., 2020
biv156/4	EUR2	Russia	Indiga River		67.5012° N	49.3144° E	KY328451	Tomilova et al., 2020a
biv156/5	EUR2	Russia	Indiga River		67.5012° N	49.3144° E	KY328452	Tomilova et al., 2020a
biv157/1	EUR2	Russia	Volga River	Caspian Sea Basin	45.3865° N	47.3427° E	KY328453	Bolotov et al., 2020
biv157/2	EUR2	Russia	Volga River		45.3865° N	47.3427° E	KY328454	Bolotov et al., 2020
biv158/1	EUR2	Russia	Yenisey River	Arctic Basin	55.9550° N	110.7073° E	KY328455	Bolotov et al., 2020
biv158/2	EUR2	Russia	Yenisey River		55.9550° N	110.7073° E	KY328456	Bolotov et al., 2020
biv158/3	EUR2	Russia	Yenisey River		55.9550° N	110.7073° E	KY328457	Bolotov et al., 2020
biv164/1	EUR2	Russia	Onega River	Black Sea Basin	63.8296° N	38.4573° E	KY328459	Bolotov et al., 2020
biv168/1	EUR2	Russia	Northern Dvina River		63.5080° N	41.6216° E	KY328460	Bolotov et al., 2020
biv168/2	EUR2	Russia	Northern Dvina River		63.5080° N	41.6216° E	KY328461	Bolotov et al., 2020
biv168/3	EUR2	Russia	Northern Dvina River		63.5080° N	41.6216° E	KY328462	Bolotov et al., 2020
biv170/1	EUR2	Bulgaria	Kamchia River		43.0584° N	26.9534° E	KY328463	Bolotov et al., 2020
biv170/2	EUR2	Bulgaria	Kamchia River	Arctic Basin	43.0584° N	26.9534° E	KY328464	Bolotov et al., 2020
biv170/3	EUR2	Bulgaria	Kamchia River		43.0584° N	26.9534° E	KY328465	Bolotov et al., 2020
biv173/1	EUR2	Russia	Taz River		63.5768° N	83.8644° E	KY328466	Bolotov et al., 2020
biv173/2	EUR2	Russia	Taz River	Caspian Sea Basin	63.5768° N	83.8644° E	KY328467	Bolotov et al., 2020
biv173/3	EUR2	Russia	Taz River		63.5768° N	83.8644° E	KY328468	Bolotov et al., 2020
biv174/1	EUR2	Russia	Volga River	Caspian Sea Basin	45.7669° N	47.8862° E	KY328469	Bolotov et al., 2020
biv174/2	EUR2	Russia	Volga River		45.7669° N	47.8862° E	KY328470	Bolotov et al., 2020
biv189/1	EUR2	Russia	Keret River	Arctic Basin	66.1592° N	32.6471° E	KY328471	Bolotov et al., 2020
biv189/3	EUR2	Russia	Keret River		66.1592° N	32.6471° E	KY328472	Bolotov et al., 2020
biv189/8	EUR2	Russia	Keret River		66.1592° N	32.6471° E	KY328473	Bolotov et al., 2020
biv190/2	EUR2	Russia	Yenisei River	Arctic Basin	51.2590° N	106.4982° E	KY328474	Bolotov et al., 2020
biv190/3	EUR2	Russia	Yenisei River		51.2590° N	106.4982° E	KY328475	Bolotov et al., 2020
biv190/4	EUR2	Russia	Yenisei River		51.2590° N	106.4982° E	KY328476	Bolotov et al., 2020
biv190/5	EUR2	Russia	Yenisei River		51.2590° N	106.4982° E	KY328477	Tomilova et al., 2020a
biv190/7	EUR2	Russia	Yenisei River		51.2590° N	106.4982° E	KY328478	Tomilova et al., 2020a
biv192/1	AZOV	Russia	Kuban River	Azov Sea Basin	45.2481° N	37.4975° E	KY328479	Bolotov et al., 2020
biv194/4	EUR2	Russia	Volga River	Caspian Sea Basin	55.8650° N	38.0010° E	KY328480	Bolotov et al., 2020
biv194/5	EUR2	Russia	Volga River		55.8650° N	38.0010° E	KY328481	Bolotov et al., 2020
biv194/7	EUR2	Russia	Volga River	Arctic Basin	55.8650° N	38.0010° E	KY328482	Bolotov et al., 2020
biv198/1	EUR2	Russia	Ob River		54.3206° N	84.3938° E	KY328483	Bolotov et al., 2020
biv198/2	EUR2	Russia	Ob River		54.3206° N	84.3938° E	KY328484	Bolotov et al., 2020
biv198/3	EUR2	Russia	Ob River		54.3206° N	84.3938° E	KY328485	Bolotov et al., 2020
biv198/4	EUR2	Russia	Ob River		54.3206° N	84.3938° E	KY328486	Tomilova et al., 2020a
biv198/6	EUR2	Russia	Ob River		54.3206° N	84.3938° E	KY328487	Tomilova et al., 2020a
biv199/1	EUR2	Russia	Lena River	Arctic Basin	62.5689° N	130.8861° E	KY328488	Bolotov et al., 2020
biv199/2	EUR2	Russia	Lena River		62.5689° N	130.8861° E	KY328489	Bolotov et al., 2020
biv199/3	EUR2	Russia	Lena River		62.5689° N	130.8861° E	KY328490	Bolotov et al., 2020

Voucher/Code	Lineage	Country	Freshwater Basin	Basin	Latitude	Longitude	COI seq. acc. number	Reference
biv199/5	EUR2	Russia	Lena River	Arctic Basin	62.5689° N	130.8861° E	KY328491	Tomilova et al., 2020a
biv199/6	EUR2	Russia	Lena River		62.5689° N	130.8861° E	KY328492	Tomilova et al., 2020a
biv206/1	EUR2	Russia	Pechora River		67.0291° N	51.1275° E	KY328493	Bolotov et al., 2020
biv206/2	EUR2	Russia	Pechora River		67.0291° N	51.1275° E	KY328494	Tomilova et al., 2020a
biv208/1	AZOV	Russia	Don River	Azov Sea Basin	49.2421° N	43.9255° E	KY328495	Bolotov et al., 2020
biv208/3	AZOV	Russia	Don River		49.2421° N	43.9255° E	KY328496	Bolotov et al., 2020
biv209	EUR2	Russia	Volga River	Caspian Sea Basin	54.8451° N	37.9849° E	KY328497	Bolotov et al., 2020
biv210/1	EUR2	Russia	Pechora River	Arctic Basin	68.1305° N	53.5269° E	KY328498	Bolotov et al., 2020
biv210/3	EUR2	Russia	Pechora River		68.1305° N	53.5269° E	KY328499	Bolotov et al., 2020
biv210/4	EUR2	Russia	Pechora River		68.1305° N	53.5269° E	KY328500	Tomilova et al., 2020a
biv210/5	EUR2	Russia	Pechora River		68.1305° N	53.5269° E	KY328501	Tomilova et al., 2020a
669/2	EUR2	Russia	Northern Dvina River		64.1414° N	41.7653° E	KY328502	Bolotov et al., 2020
669/12	EUR2	Russia	Northern Dvina River		64.1414° N	41.7653° E	KY328503	Bolotov et al., 2020
669/23	EUR2	Russia	Northern Dvina River		64.1414° N	41.7653° E	KY328504	Bolotov et al., 2020
670/1	EUR2	Russia	Kuloi River		65.0007° N	41.2693° E	KY328505	Bolotov et al., 2020
670/4	EUR2	Russia	Kuloi River		65.0007° N	41.2693° E	KY328506	Bolotov et al., 2020
670/7	EUR2	Russia	Kuloi River		65.0007° N	41.2693° E	KY328507	Bolotov et al., 2020
670/8	EUR2	Russia	Kuloi River		65.0007° N	41.2693° E	KY328508	Tomilova et al., 2020a
1HH	EUR2	Russia	Northern Dvina River		64.4561° N	40.5813° E	KY328509	Bolotov et al., 2020
2HH	EUR2	Russia	Northern Dvina River		64.4561° N	40.5813° E	KY328510	Bolotov et al., 2020
4HH	EUR2	Russia	Northern Dvina River		64.4561° N	40.5813° E	KY328511	Bolotov et al., 2020
biv277/2	EUR2	Russia	Dnieper River	Black Sea Basin	51.7699° N	36.2186° E	MK574149	Bolotov et al., 2020
biv277/3	EUR2	Russia	Dnieper River		51.7699° N	36.2186° E	MK574150	Bolotov et al., 2020
biv277/4	EUR2	Russia	Dnieper River		51.7699° N	36.2186° E	MK574151	Bolotov et al., 2020
biv277/5	EUR2	Russia	Dnieper River		51.7699° N	36.2186° E	MT027824	Tomilova et al., 2020a
biv282/2	AZOV	Russia	Don River	Azov Sea Basin	51.5630° N	43.1530° E	MK574152	Bolotov et al., 2020
biv282/3	AZOV	Russia	Don River		51.5630° N	43.1530° E	MK574153	Bolotov et al., 2020
biv282/4	AZOV	Russia	Don River		51.5630° N	43.1530° E	MK574154	Bolotov et al., 2020
biv306/2	EUR2	Russia	Volga River	Caspian Sea Basin	48.4244° N	44.9181° E	MK574155	Bolotov et al., 2020
biv307/2	AZOV	Russia	Kagalnik River	Azov Sea Basin	46.8762° N	39.6995° E	MK574156	Bolotov et al., 2020
biv307/3	AZOV	Russia	Kagalnik River		46.8762° N	39.6995° E	MK574157	Bolotov et al., 2020
616S	EUR2	Russia	Northern Dvina River	Arctic Basin	61.2785° N	48.6681° E	MK574158	Bolotov et al., 2020
biv315	EUR1	Turkey	Orontes River	Eastern Mediterranean Basin	36.4650° N	36.3799° E	MT027825	Tomilova et al., 2020a
biv318/1	EUR1	Turkey	Orontes River		36.4298° N	36.3833° E	MT027826	Tomilova et al., 2020a
biv318/2	EUR1	Turkey	Orontes River		36.4298° N	36.3833° E	MT027827	Tomilova et al., 2020a
biv318/4	EUR1	Turkey	Orontes River		36.4298° N	36.3833° E	MT027828	Tomilova et al., 2020a
biv318/5	EUR1	Turkey	Orontes River		36.4298° N	36.3833° E	MT027829	Tomilova et al., 2020a
biv318/6	EUR1	Turkey	Orontes River		36.4298° N	36.3833° E	MT027830	Tomilova et al., 2020a
biv318/9	EUR1	Turkey	Orontes River		36.4298° N	36.3833° E	MT027831	Tomilova et al., 2020a
biv481	EUR2	Georgia: Abkhazia	Bzyb River	Black Sea Basin	43.1980° N°	40.3031° E°	MT027832	Tomilova et al., 2020a
biv552/1	EUR2	Russia	Lopshenga River	Arctic Basin	64.9542° N	37.5186° E	MK574159	Bolotov et al., 2020
biv552/4	EUR2	Russia	Lopshenga River		64.9542° N	37.5186° E	MT027833	Tomilova et al., 2020a

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biv552/5	EUR2	Russia	Lopshenga River	Azov Sea Basin	64.9542° N	37.5186° E	MT027834	Tomilova et al., 2020a
biv553/1	EUR2	Russia	Solenoye Lake		64.8767° N	38.9809° E	MK574160	Bolotov et al., 2020
biv553/2	EUR2	Russia	Solenoye Lake		64.8767° N	38.9809° E	MK574161	Bolotov et al., 2020
biv554/1	AZOV	Russia	Kuban River		44.9497° N	39.3544° E	MK574162	Bolotov et al., 2020
biv554/2	AZOV	Russia	Kuban River		44.9497° N	39.3544° E	MK574163	Bolotov et al., 2020
biv554/3	AZOV	Russia	Kuban River		44.9497° N	39.3544° E	MK574164	Bolotov et al., 2020
biv554/4	AZOV	Russia	Kuban River		44.9497° N	39.3544° E	MT027835	Tomilova et al., 2020a
biv554/5	AZOV	Russia	Kuban River		44.9497° N	39.3544° E	MT027836	Tomilova et al., 2020a
biv554/6	AZOV	Russia	Kuban River		44.9497° N	39.3544° E	MT027837	Tomilova et al., 2020a
biv554/7	AZOV	Russia	Kuban River		44.9497° N	39.3544° E	MT027838	Tomilova et al., 2020a
biv554/8	AZOV	Russia	Kuban River		44.9497° N	39.3544° E	MT027839	Tomilova et al., 2020a
biv554/9	AZOV	Russia	Kuban River		44.9497° N	39.3544° E	MT027840	Tomilova et al., 2020a
biv554/10	AZOV	Russia	Kuban River		44.9497° N	39.3544° E	MT027841	Tomilova et al., 2020a
biv557/1	AZOV	Russia	Kirpili River		45.3539° N	39.8053° E	MK574165	Bolotov et al., 2020
biv557/2	AZOV	Russia	Kirpili River		45.3539° N	39.8053° E	MK574166	Bolotov et al., 2020
biv557/3	AZOV	Russia	Kirpili River		45.3539° N	39.8053° E	MK574167	Bolotov et al., 2020
biv557/4	AZOV	Russia	Kirpili River		45.3539° N	39.8053° E	MT027842	Tomilova et al., 2020a
biv557/5	AZOV	Russia	Kirpili River		45.3539° N	39.8053° E	MT027843	Tomilova et al., 2020a
biv557/6	AZOV	Russia	Kirpili River		45.3539° N	39.8053° E	MT027844	Tomilova et al., 2020a
biv557/7	AZOV	Russia	Kirpili River	Arctic Basin	45.3539° N	39.8053° E	MT027845	Tomilova et al., 2020a
biv557/8	AZOV	Russia	Kirpili River		45.3539° N	39.8053° E	MT027846	Tomilova et al., 2020a
biv557/9	AZOV	Russia	Kirpili River		45.3539° N	39.8053° E	MT027847	Tomilova et al., 2020a
biv557/10	AZOV	Russia	Kirpili River		45.3539° N	39.8053° E	MT027848	Tomilova et al., 2020a
biv558	AZOV	Russia	Kirpili River		45.3539° N	39.8053° E	MK574168	Bolotov et al., 2020
biv560/1	AZOV	Russia	Don River		48.3406° N	40.1096° E	MK574169	Bolotov et al., 2020
biv560/2	AZOV	Russia	Don River		48.3406° N	40.1096° E	MK574170	Bolotov et al., 2020
biv560/3	AZOV	Russia	Don River		48.3406° N	40.1096° E	MK574171	Bolotov et al., 2020
biv563	AZOV	Russia	Don River		47.8438° N	39.9030° E	MK574172	Bolotov et al., 2020
biv565/1	AZOV	Russia	Don River		47.3582° N	40.0632° E	MK574173	Bolotov et al., 2020
biv565/2	AZOV	Russia	Don River	Azov Sea Basin	47.3582° N	40.0632° E	MK574174	Bolotov et al., 2020
biv565/3	AZOV	Russia	Don River		47.3582° N	40.0632° E	MK574175	Bolotov et al., 2020
biv567/1	EUR2	Russia	Onega River		61.3079° N	38.8429° E	MT027849	Tomilova et al., 2020a
biv567/2	EUR2	Russia	Onega River		61.3079° N	38.8429° E	MT027850	Tomilova et al., 2020a
biv567/3	EUR2	Russia	Onega River		61.3079° N	38.8429° E	MT027851	Tomilova et al., 2020a
biv569/2	AZOV	Russia	Kuban River		45.2655° N	37.3708° E	MK574177	Bolotov et al., 2020
biv569/3	AZOV	Russia	Kuban River		45.2655° N	37.3708° E	MK574178	Bolotov et al., 2020
biv569/4	AZOV	Russia	Kuban River		45.2655° N	37.3708° E	MT027852	Tomilova et al., 2020a
biv569/5	AZOV	Russia	Kuban River		45.2655° N	37.3708° E	MT027853	Tomilova et al., 2020a
biv569/6	AZOV	Russia	Kuban River		45.2655° N	37.3708° E	MT027854	Tomilova et al., 2020a
biv569/7	AZOV	Russia	Kuban River	Caspian Sea	45.2655° N	37.3708° E	MT027855	Tomilova et al., 2020a
biv569/8	AZOV	Russia	Kuban River		45.2655° N	37.3708° E	MT027856	Tomilova et al., 2020a
biv569/9	AZOV	Russia	Kuban River		45.2655° N	37.3708° E	MT027857	Tomilova et al., 2020a
biv569/10	AZOV	Russia	Kuban River		45.2655° N	37.3708° E	MT027858	Tomilova et al., 2020a
biv571/1	EUR2	Russia	Volga River		54.6603° N	39.8371° E	MK574179	Bolotov et al., 2020

Voucher/Code	Lineage	Country	Freshwater Basin	Basin	Latitude	Longitude	COI seq. acc. number	Reference
biv571/2	EUR2	Russia	Volga River	Basin	54.6603° N	39.8371° E	MT027859	Tomilova et al., 2020a
biv572/3	EUR2	Russia	Volga River		54.6603° N	39.8371° E	MK574180	Bolotov et al., 2020
biv573/4	EUR2	Russia	Volga River		54.6603° N	39.8371° E	MK574181	Bolotov et al., 2020
biv575/6	EUR2	Russia	Volga River		54.9798° N	41.7753° E	MT027860	Tomilova et al., 2020a
biv585/1	EUR2	Russia	Volga River		54.8958° N	55.8891° E	MT027861	Tomilova et al., 2020a
biv585/2	EUR2	Russia	Volga River		54.8958° N	55.8891° E	MT027862	Tomilova et al., 2020a
biv585/3	EUR2	Russia	Volga River		54.8958° N	55.8891° E	MT027863	Tomilova et al., 2020a
biv585/4	EUR2	Russia	Volga River		54.8958° N	55.8891° E	MT027864	Tomilova et al., 2020a
biv591/1	EUR2	Russia	Volga River		47.2531° N	47.0418° E	MT027865	Tomilova et al., 2020a
biv591/2	EUR2	Russia	Volga River		47.2531° N	47.0418° E	MT027866	Tomilova et al., 2020a
biv591/5	EUR2	Russia	Volga River		47.2531° N	47.0418° E	MT027867	Tomilova et al., 2020a
biv593/1	EUR2	Kazakhstan	Ural River		50.7131° N	51.3808 ° E	MK603925	Bolotov et al., 2020
biv593/2	EUR2	Kazakhstan	Ural River		50.7131° N	51.3808 ° E	MK603926	Bolotov et al., 2020
biv593/3	EUR2	Kazakhstan	Ural River		50.7131° N	51.3808 ° E	MK603927	Bolotov et al., 2020
biv593/4	EUR2	Kazakhstan	Ural River		50.7131° N	51.3808 ° E	MK603928	Bolotov et al., 2020
biv593/5	EUR2	Kazakhstan	Ural River		50.7131° N	51.3808 ° E	MK603929	Bolotov et al., 2020
biv596/3	EUR2	Russia	Volga River	Baltic Sea Basin	55.7012° N	36.7209° E	MT027868	Tomilova et al., 2020a
biv596/5	EUR2	Russia	Volga River		55.7012° N	36.7209° E	MT027869	Tomilova et al., 2020a
biv597/1	EUR2	Russia	Velikaya River	Arctic Basin	56.4631° N	29.1139° E	MT027870	Tomilova et al., 2020a
biv622/1	EUR2	Kazakhstan	Ob River		49.8012° N	82.6261° E	MT027871	Tomilova et al., 2020a
biv622/2	EUR2	Kazakhstan	Ob River		49.8012° N	82.6261° E	MT027872	Tomilova et al., 2020a
biv622/3	EUR2	Kazakhstan	Ob River		49.8012° N	82.6261° E	MT027873	Tomilova et al., 2020a
biv622/4	EUR2	Kazakhstan	Ob River	Caspian Sea Basin	49.8012° N	82.6261° E	MT027874	Tomilova et al., 2020a
biv723/1	EUR2	Russia	Ak-Gel Lake		42.9604° N	47.5423° E	MT027875	Tomilova et al., 2020a
biv723/2	EUR2	Russia	Ak-Gel Lake	Azov Sea Basin	42.9604° N	47.5423° E	MT027876	Tomilova et al., 2020a
biv724/1	AZOV	Russia	Beisug River		45.8427° N	39.0525° E	MT027877	Tomilova et al., 2020a
biv724/2	AZOV	Russia	Beisug River		45.8427° N	39.0525° E	MT027878	Tomilova et al., 2020a
biv724/3	AZOV	Russia	Beisug River		45.8427° N	39.0525° E	MT027879	Tomilova et al., 2020a
biv726/1	AZOV	Russia	Chelbas River		46.0837° N	38.9769° E	MT027880	Tomilova et al., 2020a
biv726/3	AZOV	Russia	Chelbas River		46.0837° N	38.9769° E	MT027881	Tomilova et al., 2020a
biv726/6	AZOV	Russia	Chelbas River		46.0837° N	38.9769° E	MT027882	Tomilova et al., 2020a
biv727/3	AZOV	Russia	Kuban River		44.8929° N	38.8456° E	MT027883	Tomilova et al., 2020a
biv727/4	AZOV	Russia	Kuban River		44.8929° N	38.8456° E	MT027884	Tomilova et al., 2020a
biv727/7	AZOV	Russia	Kuban River		44.8929° N	38.8456° E	MT027885	Tomilova et al., 2020a
biv731	AZOV	Russia	Yeya River		46.5481° N	39.0661° E	MT027886	Tomilova et al., 2020a
biv732/2	AZOV	Russia	Yeya River		46.5732° N	39.6331° E	MT027887	Tomilova et al., 2020a
biv732/4	AZOV	Russia	Yeya River		46.5732° N	39.6331° E	MT027888	Tomilova et al., 2020a
biv732/5	AZOV	Russia	Yeya River		46.5732° N	39.6331° E	MT027889	Tomilova et al., 2020a
AA5T	EUR1	Turkey	Orontes River	Eastern Mediterranean Basin	36.4962° N	36.4807° E	MT328818	Tomilova et al., 2020b
AA10T	EUR1	Turkey	Orontes River		36.4962° N	36.4807° E	MT328819	Tomilova et al., 2020b
AA12T	EUR1	Turkey	Orontes River		36.4962° N	36.4807° E	MT328820	Tomilova et al., 2020b
AA14T	EUR1	Turkey	Orontes River		36.4962° N	36.4807° E	MT328821	Tomilova et al., 2020b
AA21T	EUR1	Turkey	Orontes River		36.4962° N	36.4807° E	MT328822	Tomilova et al., 2020b
biv746/1	EUR2	Belarus	Dnieper River	Black Sea Basin	52.3148° N	30.9532° E	OQ121688	Present study
biv746/2	EUR2	Belarus	Dnieper River		52.3148° N	30.9532° E	OQ121689	Present study

Voucher/Code	Lineage	Country	Freshwater Basin	Basin	Latitude	Longitude	COI seq. acc. number	Reference
biv769/3	AZOV2	Russia	Don River	Azov Sea Basin	50.8387° N	39.0757° E	OQ121690	Present study
biv777/1	EUR1	Moldova	Danube River	Black Sea Basin	47.8700° N	27.2552° E	OQ121691	Present study
biv777/2	EUR1	Moldova	Danube River		47.8700° N	27.2552° E	OQ121692	Present study
biv777/3	EUR1	Moldova	Danube River		47.8700° N	27.2552° E	OQ121693	Present study
biv777/4	EUR1	Moldova	Danube River		47.8700° N	27.2552° E	OQ121694	Present study
biv777/5	EUR2	Moldova	Danube River		47.8700° N	27.2552° E	OQ121695	Present study
biv778/1	EUR2	Moldova	Dniester River		47.2847° N	29.1252° E	OQ121696	Present study
biv778/2	EUR2	Moldova	Dniester River		47.2847° N	29.1252° E	OQ121697	Present study
biv778/3	EUR2	Moldova	Dniester River		47.2847° N	29.1252° E	OQ121698	Present study
biv778/4	EUR2	Moldova	Dniester River		47.2847° N	29.1252° E	OQ121699	Present study
biv778/5	EUR2	Moldova	Dniester River		47.2847° N	29.1252° E	OQ121700	Present study
biv787/5	EUR2	Russia	Volga River	Caspian Sea Basin	46.6859° N	48.0747° E	OQ121701	Present study
biv797/2	EUR2	France	Garonne River	Atlantic Basin	43.3919° N	1.6915° E	OQ121702	Present study
biv797/5	EUR2	France	Garonne River		43.3919° N	1.6915° E	OQ121703	Present study
biv797/6	EUR1	France	Garonne River		43.3919° N	1.6915° E	OQ121704	Present study
biv1121/1	EUR2	Russia	Neva River	Baltic Sea Basin	61.1110° N	32.5514° E	OQ121705	Present study
biv1135/1	AZOV	Russia	Don River	Azov Sea Basin	47.4646° N	40.4793° E	OQ121706	Present study
biv1135/2	AZOV	Russia	Don River		47.4646° N	40.4793° E	OQ121707	Present study
biv1135/3	AZOV	Russia	Don River		47.4646° N	40.4793° E	OQ121708	Present study
biv1137/1	EUR2	Russia	Volga River	Caspian Sea Basin	48.0994° N	46.0826° E	OQ121709	Present study
biv1137/3	EUR2	Russia	Volga River		48.0994° N	46.0826° E	OQ121711	Present study
biv1143/1	EUR2	Russia	Volga River		53.1362° N	48.2646° E	OQ121712	Present study
biv1143/2	EUR2	Russia	Volga River		53.1362° N	48.2646° E	OQ121713	Present study
biv1143/3	EUR2	Russia	Volga River		53.1362° N	48.2646° E	OQ121714	Present study
biv1151/1	EUR2	Russia	Volga River		51.7089° N	46.7015° E	OQ121715	Present study
biv1151/2	EUR2	Russia	Volga River		51.7089° N	46.7015° E	OQ121716	Present study
biv1151/3	EUR2	Russia	Volga River		51.7089° N	46.7015° E	OQ121717	Present study
biv1161/1	EUR2	Russia	Volga River		53.2206° N	50.4691° E	OQ121718	Present study
biv1161/2	EUR2	Russia	Volga River		53.2206° N	50.4691° E	OQ121719	Present study
biv1161/3	EUR2	Russia	Volga River		53.2206° N	50.4691° E	OQ121720	Present study
biv1234/4	EUR2	Belarus	Neman River	Baltic Sea Basin	53.7409° N	24.2122° E	OQ121721	Present study
biv1234/5	EUR2	Belarus	Neman River		53.7409° N	24.2122° E	OQ121722	Present study
biv1236/1	EUR2	Belarus	Neman River		53.5230° N	24.1952° E	OQ121723	Present study
biv1236/2	EUR2	Belarus	Neman River		53.5230° N	24.1952° E	OQ121724	Present study
biv1236/3	EUR2	Belarus	Neman River		53.5230° N	24.1952° E	OQ121725	Present study
biv1236/4	EUR2	Belarus	Neman River		53.5230° N	24.1952° E	OQ121726	Present study
biv1236/5	EUR2	Belarus	Neman River		53.5230° N	24.1952° E	OQ121727	Present study
biv1241/1	EUR2	Belarus	Neman River		54.8865° N	26.9015° E	OQ121728	Present study
biv1241/2	EUR2	Belarus	Neman River	Caspian Sea Basin	54.8865° N	26.9015° E	OQ121729	Present study
biv1384/10	EUR2	Russia	Volga River		55.5932° N	39.5758° E	OQ121730	Present study
biv1406/2	EUR2	Russia	Dnieper River	Black Sea Basin	54.7708° N	31.2857° E	OQ121731	Present study
biv1406/4	EUR2	Russia	Dnieper River		54.7708° N	31.2857° E	OQ121732	Present study
biv1406/15	EUR2	Russia	Dnieper River		54.7708° N	31.2857° E	OQ121733	Present study
biv1412/1	EUR2	Russia	Ob River	Arctic Basin	53.3957° N	83.7952° E	OQ121734	Present study

Voucher/Code	Lineage	Country	Freshwater Basin	Basin	Latitude	Longitude	COI seq. acc. number	Reference
biv1412/2	EUR2	Russia	Ob River	Caspian Sea Basin	53.3957° N	83.7952° E	OQ121735	Present study
biv1412/3	EUR2	Russia	Ob River		53.3957° N	83.7952° E	OQ121736	Present study
biv1415/1	EUR2	Russia	Ob River		52.4996° N	85.1734° E	OQ121737	Present study
biv1415/2	EUR2	Russia	Ob River		52.4996° N	85.1734° E	OQ121738	Present study
biv1415/3	EUR2	Russia	Ob River		52.4996° N	85.1734° E	OQ121739	Present study
biv1416/1	EUR2	Russia	Ob River		51.9716° N	85.7618° E	OQ121740	Present study
biv1416/2	EUR2	Russia	Ob River		51.9716° N	85.7618° E	OQ121741	Present study
biv1416/3	EUR2	Russia	Ob River		51.9716° N	85.7618° E	OQ121742	Present study
biv1417/1	EUR2	Russia	Volga River		56.8834° N	59.0467° E	OQ121743	Present study
biv1417/2	EUR2	Russia	Volga River		56.8834° N	59.0467° E	OQ121744	Present study
biv1417/3	EUR2	Russia	Volga River		56.8834° N	59.0467° E	OQ121745	Present study
biv1420/1	EUR2	Russia	Volga River		57.3551° N	56.9098° E	OQ121746	Present study
biv1425/1	EUR2	Russia	Volga River		60.3818° N	56.5051° E	OQ121747	Present study
biv1425/2	EUR2	Russia	Volga River		60.3818° N	56.5051° E	OQ121748	Present study
biv1425/3	EUR2	Russia	Volga River		60.3818° N	56.5051° E	OQ121749	Present study
biv1427/1	EUR2	Russia	Volga River		57.2376° N	59.3228° E	OQ121750	Present study
biv1427/2	EUR2	Russia	Volga River		57.2376° N	59.3228° E	OQ121751	Present study
biv1427/3	EUR2	Russia	Volga River		57.2376° N	59.3228° E	OQ121752	Present study
biv1434/1	EUR2	Russia	Volga River		56.1352° N	48.3343° E	OQ121753	Present study
biv1434/2	EUR2	Russia	Volga River		56.1352° N	48.3343° E	OQ121754	Present study
biv1434/3	EUR2	Russia	Volga River		56.1352° N	48.3343° E	OQ121755	Present study
biv1451/1	AZOV	Russia	Dagomys River	Black Sea Basin	43.6980° N	39.6852° E	OQ121756	Present study
biv1451/2	AZOV	Russia	Dagomys River		43.6980° N	39.6852° E	OQ121757	Present study
biv1451/3	AZOV	Russia	Dagomys River		43.6980° N	39.6852° E	OQ121758	Present study
biv1662/1	EUR2	Russia	Mamonovka River	Baltic Sea Basin	54.4591° N	20.1353° E	OQ121759	Present study
biv1662/2	EUR2	Russia	Mamonovka River		54.4591° N	20.1353° E	OQ121760	Present study
biv1662/3	EUR2	Russia	Mamonovka River		54.4591° N	20.1353° E	OQ121761	Present study
biv1666	EUR2	Russia	Pregolya River		54.5229° N	22.0748° E	OQ121762	Present study
biv1673/1	EUR2	Russia	Pregolya River	Arctic Basin	54.4959° N	21.1935° E	OQ121763	Present study
biv1682/2	EUR2	Russia	Ob River		56.9702° N	60.7366° E	OQ121765	Present study
biv1682/3	EUR2	Russia	Ob River		56.9702° N	60.7366° E	OQ121766	Present study
biv1682/4	EUR2	Russia	Ob River		56.9702° N	60.7366° E	OQ121767	Present study
biv1682/5	EUR2	Russia	Ob River		56.9702° N	60.7366° E	OQ121768	Present study
BIV0199	EUR2	Ukraine	Dnieper River	Black Sea Basin	-	-	MH062759	Klishko et al., 2018
BIV0201	EUR2	Ukraine	Dniester River		-	-	MH062760	Klishko et al., 2018
BIV0202	EUR2	Ukraine	Dniester River		-	-	MH062761	Klishko et al., 2018
BIV0205	EUR1	Ukraine	Southern Bug River		-	-	MH062763	Klishko et al., 2018
BIV0206	EUR2	Ukraine	Dnieper River	Arctic Basin	-	-	MH062764	Klishko et al., 2018
BIV0256	EUR2	Russia	Lena River		52.2921° N	113.0898° E	MH062765	Klishko et al., 2018
BIV3374	EUR2	Russia	Yenisei River		52.2897° N	106.4839° E	MH062766	Klishko et al., 2018
BIV3375	EUR2	Russia	Yenisei River		52.2897° N	106.4839° E	MH062767	Klishko et al., 2018
BIV3377	EUR2	Russia	Yenisei River		51.4176° N	106.5433° E	MH062768	Klishko et al., 2018
BIV3378	EUR2	Russia	Yenisei River		51.4176° N	106.5433° E	MH062769	Klishko et al., 2018
BIV3379	EUR2	Russia	Yenisei River		51.4176° N	106.5433° E	MH062770	Klishko et al., 2018

Voucher/Code	Lineage	Country	Freshwater Basin	Basin	Latitude	Longitude	COI seq. acc. number	Reference
BIV3381	EUR2	Russia	Yenisei River	Western Mediterranean Basin	51.4176° N	106.5433° E	MH062771	Klishko et al., 2018
BIV3382	EUR2	Russia	Yenisei River		51.5600° N	107.0090° E	MH062772	Klishko et al., 2018
BIV3383	EUR2	Russia	Yenisei River		51.5600° N	107.0090° E	MH062773	Klishko et al., 2018
BIV3384	EUR2	Russia	Yenisei River		51.5600° N	107.0090° E	MH062774	Klishko et al., 2018
BIV3385	EUR2	Russia	Yenisei River		51.5600° N	107.0090° E	MH062775	Klishko et al., 2018
BIV3387	EUR2	Russia	Yenisei River		51.8473° N	107.5583° E	MH062776	Klishko et al., 2018
BIV3388	EUR2	Russia	Yenisei River		51.8473° N	107.5583° E	MH062777	Klishko et al., 2018
BIV3392	EUR2	Russia	Lena River		52.5972° N	111.5001° E	MH062778	Klishko et al., 2018
BIV3393	EUR2	Russia	Lena River		52.5972° N	111.5001° E	MH062779	Klishko et al., 2018
BIV3394	EUR2	Russia	Lena River		52.5972° N	111.5001° E	MH062780	Klishko et al., 2018
BIV3395	EUR2	Russia	Lena River		52.5972° N	111.5001° E	MH062781	Klishko et al., 2018
BIV3397	EUR2	Russia	Lena River		52.5972° N	111.5001° E	MH062782	Klishko et al., 2018
BIV3399	EUR2	Russia	Lena River		52.5972° N	111.5001° E	MH062783	Klishko et al., 2018
BIV3401	EUR2	Russia	Yenisei River		52.1555° N	106.2637° E	MH062784	Klishko et al., 2018
BIV3402	EUR2	Russia	Yenisei River		52.1555° N	106.2637° E	MH062785	Klishko et al., 2018
BIV3405	EUR2	Russia	Yenisei River		52.1555° N	106.2637° E	MH062786	Klishko et al., 2018
BIV3406	EUR2	Russia	Yenisei River		52.1555° N	106.2637° E	MH062787	Klishko et al., 2018
BIV3408	EUR2	Russia	Yenisei River		52.1555° N	106.2637° E	MH062788	Klishko et al., 2018
BIV849	ITAL	Spain	Jucar River	Baltic Sea Basin	39.3176° N	0.3962° W	MF414228	Froufe et al., 2017
BIV965	ITAL	Spain	Jucar River		39.3114° N	0.3205° W	MF414229	Froufe et al., 2017
BIV1075	ITAL	Spain	Ter River		42.0096° N	3.1249° E	MF414226	Froufe et al., 2017
BIV1076	ITAL	Spain	Ter River		42.0096° N	3.1249° E	MF414227	Froufe et al., 2017
73 F	EUR2	Poland	Vistula River	Adriatic Basin	-	-	AF494102	Soroka et al., 2008
AA387	ITAL	Italy	Po River		45.9803° N	8.6443° E	KC583512	Froufe et al., 2014
AA389	ITAL	Italy	Po River		45.9803° N	8.6443° E	KC583514	Froufe et al., 2014
AA390	ITAL	Italy	Po River		45.9803° N	8.6443° E	KC583515	Froufe et al., 2014
AA391	ITAL	Italy	Po River		45.9803° N	8.6443° E	KC583516	Froufe et al., 2014
AA392	ITAL	Italy	Po River		45.9803° N	8.6443° E	KC583517	Froufe et al., 2014
AA393	ITAL	Italy	Po River		45.9803° N	8.6443° E	KC583518	Froufe et al., 2014
AA394	ITAL	Italy	Po River		45.9803° N	8.6443° E	KC583519	Froufe et al., 2014
Ai1	IBER	Portugal	Mondego River	Atlantic Basin	-	-	KC583503	Froufe et al., 2014
Ai12	IBER	Portugal	Mondego River		-	-	KC583504	Froufe et al., 2014
Ai13	IBER	Portugal	Mondego River		-	-	KC583505	Froufe et al., 2014
Ai15	IBER	Portugal	Mondego River		-	-	KC583506	Froufe et al., 2014
Ai20	IBER	Portugal	Mondego River		-	-	KC583507	Froufe et al., 2014
Ai21	IBER	Portugal	Mondego River		-	-	KC583508	Froufe et al., 2014
ACGOM1	EUR1	Hungary	Danube River	Black Sea Basin	47.6852° N	19.1279° E	KC583500	Froufe et al., 2014
ACGOM2	EUR1	Hungary	Danube River		47.6852° N	19.1279° E	KC583501	Froufe et al., 2014
ACGOM3	EUR1	Hungary	Danube River		47.6852° N	19.1279° E	KC583502	Froufe et al., 2014
AA70	EUR1	Hungary	Danube River		47.6852° N	19.1279° E	KC583489	Froufe et al., 2014
AA71	EUR1	Hungary	Danube River		47.6852° N	19.1279° E	KC583490	Froufe et al., 2014
AA72	EUR1	Hungary	Danube River		47.6852° N	19.1279° E	KC583491	Froufe et al., 2014
AA73	EUR1	Czech Republic	Elbe River	North Sea Basin	50.2283° N	14.6138° E	KC583492	Froufe et al., 2014
AA74	EUR2	Czech Republic	Elbe River		50.2283° N	14.6138° E	KC583493	Froufe et al., 2014

Voucher/Code	Lineage	Country	Freshwater Basin	Basin	Latitude	Longitude	COI seq. acc. number	Reference
AA75	EUR2	Czech Republic	Elbe River	Atlantic Basin	50.2283° N	14.6138° E	KC583494	Froufe et al., 2014
AA76	EUR1	Czech Republic	Elbe River		50.2283° N	14.6138° E	KC583495	Froufe et al., 2014
AC77	EUR1	Czech Republic	Elbe River		50.2283° N	14.6138° E	KC583498	Froufe et al., 2014
AC79	EUR2	Czech Republic	Elbe River		50.2283° N	14.6138° E	KC583499	Froufe et al., 2014
AA83	IBER	Portugal	Vouga River		-	-	KC583496	Froufe et al., 2014
AA87	IBER	Portugal	Vouga River		-	-	KC583497	Froufe et al., 2014
V1	IBER	Portugal	Vouga River		-	-	KC583511	Froufe et al., 2014
AA229	IBER	Portugal	Tejo River		-	-	KC583468	Froufe et al., 2014
AA233	IBER	Portugal	Tejo River		-	-	KC583469	Froufe et al., 2014
AA234	IBER	Portugal	Tejo River	Western Mediterranean Basin	-	-	KC583470	Froufe et al., 2014
AA237	IBER	Portugal	Tejo River		-	-	KC583471	Froufe et al., 2014
AA242	IBER	Portugal	Tejo River		-	-	KC583472	Froufe et al., 2014
AA257	ITAL	Spain	Ebro River		41.8534° N	1.2316 ° W	KC583473	Froufe et al., 2014
AA258	ITAL	Spain	Ebro River		41.8534° N	1.2316 ° W	KC583474	Froufe et al., 2014
AA259	ITAL	Spain	Ebro River		41.8534° N	1.2316 ° W	KC583475	Froufe et al., 2014
AA260	ITAL	Spain	Ebro River		41.8534° N	1.2316 ° W	MF414223	Froufe et al., 2014
AA261	ITAL	Spain	Ebro River		41.8534° N	1.2316 ° W	MF414224	Froufe et al., 2014
AA263	ITAL	Spain	Ebro River		41.8534° N	1.2316 ° W	KJ402053	Froufe et al., 2014
AA264	ITAL	Spain	Ebro River		41.8534° N	1.2316 ° W	MF414225	Froufe et al., 2014
AA287	IBER	Spain	Guadalquivir River	Atlantic Basin	-	-	KC583476	Froufe et al., 2014
AA288	IBER	Spain	Guadalquivir River		-	-	KC583477	Froufe et al., 2014
AA289	IBER	Spain	Guadalquivir River		-	-	KC583478	Froufe et al., 2014
AA339	IBER	Spain	Guadalquivir River		-	-	KC583479	Froufe et al., 2014
AA341	IBER	Spain	Barbate River		-	-	KC583480	Froufe et al., 2014
AA342	IBER	Spain	Barbate River		-	-	KC583481	Froufe et al., 2014
AA369	EUR1	Hungary	Danube River	Black Sea Basin	46.7605° N	17.2553° E	KC583482	Froufe et al., 2014
AA370	EUR1	Hungary	Danube River		46.7605° N	17.2553° E	KC583483	Froufe et al., 2014
AA371	EUR1	Hungary	Danube River		46.7605° N	17.2553° E	KC583484	Froufe et al., 2014
AA372	EUR1	Hungary	Danube River		46.7605° N	17.2553° E	KC583485	Froufe et al., 2014
AA375	EUR1	Hungary	Danube River		46.7605° N	17.2553° E	KC583486	Froufe et al., 2014
AA19	IBER	Portugal	Guadiana River	Atlantic Basin	38.6656° N	7.0847° W	KC583467	Froufe et al., 2014
AA173	IBER	Portugal	Sado River		-	-	KC583464	Froufe et al., 2014
AA176	IBER	Portugal	Sado River		-	-	KC583465	Froufe et al., 2014
AA179	IBER	Portugal	Sado River		-	-	KC583466	Froufe et al., 2014
AA294	IBER	Spain	Guadalquivir River		-	-	KJ402054	Froufe et al., 2014
AC1	IBER	Portugal	Vouga River		40.5761° N	8.5269° W	KC583461	Hinzmann et al., 2013
AC3	IBER	Portugal	Vouga River		40.5761° N	8.5269° W	KC583462	Hinzmann et al., 2013
AC9	IBER	Portugal	Vouga River		40.5761° N	8.5269° W	KC583463	Hinzmann et al., 2013
AA1	IBER	Portugal	Douro River		41.5417° N	7.7875° W	KC583446	Hinzmann et al., 2013
AA3	IBER	Portugal	Douro River		41.5417° N	7.7875° W	KC583454	Hinzmann et al., 2013
AA11	IBER	Portugal	Douro River		-	-	KC583447	Hinzmann et al., 2013
AA12	IBER	Portugal	Douro River		-	-	KC583448	Hinzmann et al., 2013
AA13	IBER	Portugal	Douro River		-	-	KC583449	Hinzmann et al., 2013

Voucher/Code	Lineage	Country	Freshwater Basin	Basin	Latitude	Longitude	COI seq. acc. number	Reference
AA14	IBER	Portugal	Guadiana River		38.6656° N	7.0847° W	KC583450	Hinzmann et al., 2013
AA15	IBER	Portugal	Guadiana River		38.6656° N	7.0847° W	KC583451	Hinzmann et al., 2013
AA16	IBER	Portugal	Guadiana River		38.6656° N	7.0847° W	KC583452	Hinzmann et al., 2013
AA17	IBER	Portugal	Guadiana River		38.6656° N	7.0847° W	KC583453	Hinzmann et al., 2013
AA31	IBER	Portugal	Douro River		41.5653° N	6.8808° W	KC583455	Hinzmann et al., 2013
AA32	IBER	Portugal	Douro River		41.5653° N	6.8808° W	KC583456	Hinzmann et al., 2013
AA33	IBER	Portugal	Douro River		41.5653° N	6.8808° W	KC583457	Hinzmann et al., 2013
AA42	IBER	Portugal	Minho River		42.0511 °N	8.5611° W	KC583458	Hinzmann et al., 2013
AA51	IBER	Portugal	Minho River		42.0511 °N	8.5611° W	KC583459	Hinzmann et al., 2013
AA61	IBER	Portugal	Minho River		42.0511 °N	8.5611° W	KC583460	Hinzmann et al., 2013
319	EUR2	Poland	Vistula River	Baltic Sea Basin	-	-	GU230745	Froufe et al., 2014
246N	EUR2	Poland	Oder River		-	-	GU230742	Froufe et al., 2014
AanatAGA1.1	IBER	Portugal	Douro River	Atlantic Basin	-	-	EF571387	Reis et al., 2013
AanatAGA2.1	IBER	Portugal	Douro River		-	-	EF571388	Reis et al., 2013
AanatBAG1.2	IBER	Portugal	Douro River		-	-	EF571389	Reis et al., 2013
AanatBAG2.2	IBER	Portugal	Douro River		-	-	EF571390	Reis et al., 2013
AanatMOB1.4	IBER	Portugal	Mondego River		-	-	EF571391	Reis et al., 2013
AanatMOB2.4	IBER	Portugal	Mondego River		-	-	EF571392	Reis et al., 2013
AanatSDA1.5	IBER	Portugal	Sado River		-	-	EF571393	Reis et al., 2013
AanatTAE1.7	IBER	Portugal	Tejo River		-	-	EF571394	Reis et al., 2013
AanatTAE2.7	IBER	Portugal	Tejo River		-	-	EF571395	Reis et al., 2013
AanatXA1.3	IBER	Portugal	Guadiana River		-	-	EF571396	Reis et al., 2013
AanatXA2.3	IBER	Portugal	Guadiana River		-	-	EF571397	Reis et al., 2013
PB12	EUR2	Russia: Crimea	Salgir River	Black Sea Basin	45.4589° N	34.7617° E	JQ253883	Mezhzherin et al., 2014
PB13	EUR2	Ukraine	Dniester River		46.4119° N	30.2731° E	JQ253884	Mezhzherin et al., 2014
BIV1859	EUR1	France	Vidourle River	Mediterranean Basin	43.7365° N	4.1428° E	MF414213	Froufe et al., 2017
BIV1862	EUR1	France	Vidourle River		43.7365° N	4.1428° E	MF414214	Froufe et al., 2017
BIV163	EUR1	Croatia	Danube River	Black Sea Basin	45.7697° N	18.0661° E	MF414222	Froufe et al., 2017
NRM 42794-M056	EUR2	Sweden	Indalsälven River	Baltic Sea Basin	-	-	DQ060168	Källersjö et al., 2005
IT21	ITAL	Italy	Reno River	Adriatic Basin	44.1845° N	11.2759° E	MF414231	Froufe et al., 2017
IT22	ITAL	Italy	Reno River		44.1845° N	11.2759° E	MF414233	Froufe et al., 2017
IT23	ITAL	Italy	Reno River		44.1845° N	11.2759° E	MF414234	Froufe et al., 2017
IT24	ITAL	Italy	Reno River		44.1845° N	11.2759° E	MF414238	Froufe et al., 2017
IT25	ITAL	Italy	Reno River		44.1845° N	11.2759° E	MF414239	Froufe et al., 2017
IT26	ITAL	Italy	Reno River		44.1845° N	11.2759° E	MF414240	Froufe et al., 2017
IT27	ITAL	Italy	Reno River		44.1845° N	11.2759° E	MF414241	Froufe et al., 2017
IT28	ITAL	Italy	Reno River		44.1845° N	11.2759° E	MF414242	Froufe et al., 2017
IT29	ITAL	Italy	Reno River		44.1845° N	11.2759° E	MF414243	Froufe et al., 2017
IT32	ITAL	Italy	Reno River		44.1845° N	11.2759° E	MF414244	Froufe et al., 2017
IT33	ITAL	Italy	Reno River		44.1845° N	11.2759° E	MF414245	Froufe et al., 2017
IT35	ITAL	Italy	Reno River		44.1845° N	11.2759° E	MF414245	Froufe et al., 2017
IT361	ITAL	Italy	Po River		45.9803° N	8.6443° E	MF414247	Froufe et al., 2017
IT489	ITAL	Italy	Po River		45.9803° N	8.6443° E	MF414248	Froufe et al., 2017
IT493	ITAL	Italy	Po River		45.9803° N	8.6443° E	MF414249	Froufe et al., 2017

Voucher/Code	Lineage	Country	Freshwater Basin	Basin	Latitude	Longitude	COI seq. acc. number	Reference
IT557	ITAL	Italy	Brenta River	Western Mediterranean Basin	46.0140° N	11.2862° E	MF414250	Froufe et al., 2017
IT558	ITAL	Italy	Brenta River		46.0140° N	11.2862° E	MF414251	Froufe et al., 2017
IT581	ITAL	Italy	Po River		45.9803° N	8.6443° E	MF414252	Froufe et al., 2017
IT82	ITAL	Italy	Tiber River		43.0895° N	12.1532° E	MF414232	Froufe et al., 2017
IT85	ITAL	Italy	Tiber River		43.0895° N	12.1532° E	MF414235	Froufe et al., 2017
IT97	ITAL	Italy	Tiber River		43.0895° N	12.1532° E	MF414236	Froufe et al., 2017
IT104	ITAL	Italy	Tiber River		43.0895° N	12.1532° E	MF414230	Froufe et al., 2017
MNCN:N1122	IBER	Portugal	Mira River	Atlantic Basin	-	-	KX399859	Araujo et al., 2018
MNCN N500	IBER	Spain	Guadiana River		-	-	KP217914	Araujo et al., 2017
BIV2000	IBER	Morocco	Oum Er-Rbia River		-	-	MK733420	Gomes-dos-Santos et al., 2019
BIV2001	IBER	Morocco	Oum Er-Rbia River		-	-	MK733421	Gomes-dos-Santos et al., 2019
BIV2002	IBER	Morocco	Oum Er-Rbia River		-	-	MK733422	Gomes-dos-Santos et al., 2019
BIV2003	IBER	Morocco	Oum Er-Rbia River		-	-	MK733423	Gomes-dos-Santos et al., 2019
BIV2004	IBER	Morocco	Oum Er-Rbia River		-	-	MK733424	Gomes-dos-Santos et al., 2019
BIV2006	IBER	Morocco	Oum Er-Rbia River		-	-	MK733425	Gomes-dos-Santos et al., 2019
BIV2580	IBER	Morocco	Loukos River		-	-	MK733426	Gomes-dos-Santos et al., 2019
BIV2581	IBER	Morocco	Loukos River		-	-	MK733427	Gomes-dos-Santos et al., 2019
BIV2582	IBER	Morocco	Loukos River		-	-	MK733428	Gomes-dos-Santos et al., 2019
BIV2583	IBER	Morocco	Loukos River		-	-	MK733429	Gomes-dos-Santos et al., 2019
BIV2584	IBER	Morocco	Loukos River		-	-	MK733430	Gomes-dos-Santos et al., 2019
BIV2585	IBER	Morocco	Loukos River		-	-	MK733431	Gomes-dos-Santos et al., 2019
NMBE 559869	EUR2	Switzerland	Rhine River	North Sea Basin	46.9377° N	7.1244° E	OK050190	Pfarrer et al., 2022
NMBE 559870	EUR1	Switzerland	Rhine River		46.9053° N	7.0559° E	OK050192	Pfarrer et al., 2022
NMBE 559871	EUR2	Switzerland	Rhine River		46.9053° N	7.0559° E	OK050192	Pfarrer et al., 2022
NMBE 559876	EUR2	Switzerland	Rhine River		47.0109° N	6.9806° E	OK050195	Pfarrer et al., 2022
NMBE 559877	EUR1	Switzerland	Rhine River		46.8053° N	6.7456° E	OK050196	Pfarrer et al., 2022
NMBE 559881	EUR2	Switzerland	Rhine River		47.2040° N	8.7169° E	OK050200	Pfarrer et al., 2022
NMBE 559882	EUR1	Switzerland	Rhine River		47.2040° N	8.7169° E	OK050201	Pfarrer et al., 2022
NMBE 559883	EUR1	Switzerland	Rhine River		47.2040° N	8.7169° E	OK050202	Pfarrer et al., 2022
NMBE 559884	EUR1	Switzerland	Rhine River		47.3669° N	8.6708° E	OK050203	Pfarrer et al., 2022
NMBE 559885	EUR1	Switzerland	Rhine River		47.3669° N	8.6708° E	OK050204	Pfarrer et al., 2022
NMBE 559887	EUR1	Switzerland	Rhine River		47.5730° N	8.5720° E	OK050206	Pfarrer et al., 2022
NMBE 559888	EUR1	Switzerland	Rhine River		47.5730° N	8.5720° E	OK050207	Pfarrer et al., 2022
NMBE 559889	EUR1	Switzerland	Rhine River		47.5730° N	8.5720° E	OK050208	Pfarrer et al., 2022
NMBE 565030	EUR1	Switzerland	Rhine River		47.1471° N	7.3709° E	OK050211	Pfarrer et al., 2022
NMBE 565031	EUR1	Switzerland	Rhine River		47.1471° N	7.3709° E	OK050212	Pfarrer et al., 2022
NMBE 565046	EUR2	Switzerland	Rhine River		46.9377° N	7.1244° E	OK050222	Pfarrer et al., 2022
NMBE 565051	EUR2	Switzerland	Rhine River		46.5619° N	6.1692° E	OK050227	Pfarrer et al., 2022
NMBE 565052	EUR2	Switzerland	Rhine River		47.1340° N	8.1895° E	OK050228	Pfarrer et al., 2022
NMBE 565053	EUR2	Switzerland	Rhine River		47.1340° N	8.1895° E	OK050229	Pfarrer et al., 2022
NMBE 565054	EUR2	Switzerland	Rhine River		47.1340° N	8.1895° E	OK050230	Pfarrer et al., 2022
NMBE 565055	ITAL	Switzerland	Po River	Adriatic Basin	46.1473° N	8.7788° E	OK050231	Pfarrer et al., 2022

Voucher/Code	Lineage	Country	Freshwater Basin	Basin	Latitude	Longitude	COI seq. acc. number	Reference
NMBE 565056	ITAL	Switzerland	Po River		46.1473° N	8.7788° E	OK050232	Pfarrer et al., 2022
NMBE 565057	ITAL	Switzerland	Po River		46.1473° N	8.7788° E	OK050233	Pfarrer et al., 2022
NMBE 565062	ITAL	Switzerland	Po River		46.1473° N	8.7788° E	OK050238	Pfarrer et al., 2022
NMBE 565063	ITAL	Switzerland	Po River		46.1473° N	8.7788° E	OK050239	Pfarrer et al., 2022
NMBE 565064	ITAL	Switzerland	Po River		46.1473° N	8.7788° E	OK050240	Pfarrer et al., 2022
NMBE 565065	EUR1	Switzerland	Po River	North Sea Basin	46.1473° N	8.7788° E	OK050241	Pfarrer et al., 2022
NMBE 565077	EUR1	Switzerland	Rhine River		47.1135° N	9.4982° E	OK050248	Pfarrer et al., 2022
NMBE 565078	EUR2	Switzerland	Rhine River		47.1280° N	9.3010° E	OK050249	Pfarrer et al., 2022
NMBE 565079	EUR1	Switzerland	Rhine River	Adriatic Basin	47.1280° N	9.3010° E	OK050250	Pfarrer et al., 2022
NMBE 565819	ITAL	Switzerland	Po River		46.1473° N	8.7788° E	OK050253	Pfarrer et al., 2022
NMBE 566614	EUR1	Switzerland	Rhine River	North Sea Basin	47.5829° N	8.2343° E	OK050254	Pfarrer et al., 2022
NMBE 566615	EUR1	Switzerland	Rhine River		47.5829° N	8.2343° E	OK050255	Pfarrer et al., 2022
NMBE 566616	EUR1	Switzerland	Rhine River		47.5829° N	8.2343° E	OK050256	Pfarrer et al., 2022
NMBE566619	EUR2	Switzerland	Rhine River		47.1737° N	8.1254° E	OK050258	Pfarrer et al., 2022
NMBE566620	EUR2	Switzerland	Rhine River		47.0236° N	8.4638° E	OK050259	Pfarrer et al., 2022
NMBE566621	EUR2	Switzerland	Rhine River		47.0236° N	8.4638° E	OK050260	Pfarrer et al., 2022
NMBE566622	EUR2	Switzerland	Rhine River		47.0236° N	8.4638° E	OK050261	Pfarrer et al., 2022
NMBE566623	EUR1	Switzerland	Rhine River		47.0236° N	8.4638° E	OK050262	Pfarrer et al., 2022
NMBE566625	EUR1	Switzerland	Rhine River		47.0236° N	8.4638° E	OK050263	Pfarrer et al., 2022
NMBE566626	EUR1	Switzerland	Rhine River		47.3738° N	8.3169° E	OK050265	Pfarrer et al., 2022
NMBE566627	EUR2	Switzerland	Rhine River		47.3738° N	8.3169° E	OK050266	Pfarrer et al., 2022
NMBE566628	EUR2	Switzerland	Rhine River		47.1024° N	8.6308° E	OK050267	Pfarrer et al., 2022
NMBE566629	EUR2	Switzerland	Rhine River		47.1024° N	8.6308° E	OK050268	Pfarrer et al., 2022
NMBE566630	EUR2	Switzerland	Rhine River		47.0109° N	6.9806° E	OK050269	Pfarrer et al., 2022
SMF 354469	EUR2	Germany	Rhine River		50.3291° N	8.8710° E	OK050299	Pfarrer et al., 2022
A1IRAN	AZOV	Iran	Sefid River	Caspian Sea Basin	37.4159° N	49.4385° E	MZ510931	Lopes-Lima et al., 2021
A2IRAN	AZOV	Iran	Sefid River		37.4159° N	49.4385° E	MZ510932	Lopes-Lima et al., 2021
A3IRAN	AZOV	Iran	Sefid River		37.4159° N	49.4385° E	MZ510933	Lopes-Lima et al., 2021
A4IRAN	AZOV	Iran	Sefid River		37.4159° N	49.4385° E	MZ510934	Lopes-Lima et al., 2021
A6IRAN	AZOV	Iran	Sefid River		37.4159° N	49.4385° E	MZ510935	Lopes-Lima et al., 2021
ACIRAN	AZOV	Iran	Qarasu River		36.8365° N	54.0009° E	MZ510941	Lopes-Lima et al., 2021
ADIRAN	AZOV	Iran	Qarasu River		36.8365° N	54.0009° E	MZ510942	Lopes-Lima et al., 2021
AEIRAN	AZOV	Iran	Qarasu River		36.8365° N	54.0009° E	MZ510943	Lopes-Lima et al., 2021
BIV1884	AZOV	Turkey	Kura River	Eastern Mediterranean Basin	39.9707° N	41.8891° E	MZ510944	Lopes-Lima et al., 2021
BIV1896	AZOV	Turkey	Kura River		39.9707° N	41.8891° E	MZ510945	Lopes-Lima et al., 2021
BIV2094	EUR1	Turkey	Tersakan River		36.7374° N	28.8087° E	MZ510946	Lopes-Lima et al., 2021
BIV2095	EUR1	Turkey	Tersakan River		36.7374° N	28.8087° E	MZ510947	Lopes-Lima et al., 2021
BIV2096	EUR1	Turkey	Tersakan River		36.7374° N	28.8087° E	MZ510948	Lopes-Lima et al., 2021
BIV2097	EUR1	Turkey	Tersakan River		36.7374° N	28.8087° E	MZ510949	Lopes-Lima et al., 2021
BIV2098	EUR1	Turkey	Tersakan River		36.7374° N	28.8087° E	MZ510950	Lopes-Lima et al., 2021
BIV2238	EUR2	Turkey	Susurluk River		40.2252° N	28.0528° E	MZ510951	Lopes-Lima et al., 2021
BIV2239	EUR2	Turkey	Susurluk River		40.2252° N	28.0528° E	MZ510952	Lopes-Lima et al., 2021
BIV2240	EUR2	Turkey	Susurluk River		40.2252° N	28.0528° E	MZ510953	Lopes-Lima et al., 2021
BIV2241	EUR2	Turkey	Susurluk River		40.2252° N	28.0528° E	MZ510954	Lopes-Lima et al., 2021
BIV2242	EUR2	Turkey	Susurluk River		40.2252° N	28.0528° E	MZ510955	Lopes-Lima et al., 2021

Voucher/Code	Lineage	Country	Freshwater Basin	Basin	Latitude	Longitude	COI seq. acc. number	Reference
BIV2278	EUR2	Turkey	Susurluk River	Caspian Sea Basin	40.1363° N	28.6744° E	MZ510956	Lopes-Lima et al., 2021
BIV2279	EUR2	Turkey	Susurluk River		40.1363° N	28.6744° E	MZ510957	Lopes-Lima et al., 2021
BIV2280	EUR2	Turkey	Susurluk River		40.1363° N	28.6744° E	MZ510958	Lopes-Lima et al., 2021
BIV2281	EUR2	Turkey	Susurluk River		40.1363° N	28.6744° E	MZ510959	Lopes-Lima et al., 2021
BIV2282	EUR2	Turkey	Susurluk River		40.1363° N	28.6744° E	MZ510960	Lopes-Lima et al., 2021
BIV2342	EUR2	Turkey	Sapanca Lake		40.7128° N	30.1753° E	MZ510961	Lopes-Lima et al., 2021
BIV2343	EUR2	Turkey	Sapanca Lake		40.7128° N	30.1753° E	MZ510962	Lopes-Lima et al., 2021
BIV2344	EUR2	Turkey	Sapanca Lake		40.7128° N	30.1753° E	MZ510963	Lopes-Lima et al., 2021
BIV2345	EUR2	Turkey	Sapanca Lake		40.7128° N	30.1753° E	MZ510964	Lopes-Lima et al., 2021
BIV3950	EUR2	Turkey	Susurluk River		39.4166° N	28.1007° E	MZ510970	Lopes-Lima et al., 2021
BIV3952	EUR2	Turkey	Susurluk River		39.4166° N	28.1007° E	MZ510971	Lopes-Lima et al., 2021
BIV3971	EUR2	Turkey	Susurluk River		40.1299° N	27.9395° E	MZ510972	Lopes-Lima et al., 2021
BIV4117	EUR1	Turkey	Maritsa River		41.4281° N	27.0989° E	MZ510978	Lopes-Lima et al., 2021
BIV4160	EUR1	Turkey	Maritsa River		40.7687° N	26.5147° E	MZ510981	Lopes-Lima et al., 2021
BIV4161	EUR1	Turkey	Maritsa River		40.7687° N	26.5147° E	MZ510982	Lopes-Lima et al., 2021
BIV4163	EUR1	Turkey	Maritsa River		41.2097° N	27.1168° E	MZ510983	Lopes-Lima et al., 2021
BIV5396	AZOV	Turkey	Kura River		40.5658° N	43.0602° E	MZ510984	Lopes-Lima et al., 2021
BIV5397	AZOV	Turkey	Kura River		40.5658° N	43.0602° E	MZ510985	Lopes-Lima et al., 2021
BIV5398	AZOV	Turkey	Kura River		40.5658° N	43.0602° E	MZ510986	Lopes-Lima et al., 2021
BIV5399	AZOV	Turkey	Kura River		40.5658° N	43.0602° E	MZ510987	Lopes-Lima et al., 2021
BIV5400	AZOV	Turkey	Kura River		40.5658° N	43.0602° E	MZ510988	Lopes-Lima et al., 2021