

Supplementary table 2. Characterization of *Monochamus sartor* samples used for molecular studies.

| subspecies | DNA symbol | sample symbol | Locality | year | COI haplotype |
|------------------------------------|------------|---------------|-------------------------------|------|---------------|
| <i>Monochamus sartor urussovii</i> | MU-JAP | MU60JA | Japan, Hokkaido | 2008 | H4 |
| | MU-RUPK1 | MU2RU | Russia, Primorsky Krai | 2008 | H2 |
| | MU-RUPK2 | MU81RU | Russia, Primorsky Krai | 2014 | H7 |
| | MU-RUPK3 | MU90RU | Russia, Primorsky Krai | 2014 | H9 |
| | MU-RUPK4 | MU83RU | Russia, Primorsky Krai | 2014 | H12 |
| | MU-RUPK5 | MU64RU | Russia, Primorsky Krai | 2014 | H13 |
| | MU-RUPK6 | MU78RU | Russia, Primorsky Krai | 2011 | H5 |
| | MU-RUKK1 | MU87RU | Russia, Khabarovsk Krai | 2010 | H8 |
| | MU-RUCK1 | MU91RU | Russia, Chelyabinsk Krai | 2013 | H10 |
| | MU-RUSM1 | MU22RU | Russia, Sayan Mts | 2012 | H1 |
| | MU-RUSM2 | MU49RU | Russia, Sayan Mts | 2012 | H3 |
| | MU-RUUM1 | MU12RU | Russia, Ural Mts | - | |
| | MU-RUUM2 | MU14RU | Russia, Ural Mts | - | |
| | MU-PLPN1 | MU_PL138PPN | Poland, Poleski National Park | 2000 | H14 |
| | MU-PLKF1 | MU_PL259K | Poland, Knyszyn Forest | - | |
| | MU-PLKF2 | MU_PL260K | Poland, Knyszyn Forest | - | |
| | MU-PLKF3 | MU_PL261K | Poland, Knyszyn Forest | - | |
| | MU-PLAF1 | MU_PL145AR | Poland, Augustów Forest | 2014 | H6 |
| | MU-PLAF2 | MU_PL169AO | Poland, Augustów Forest | 2015 | H10 |
| | MU-PLAF3 | MU_PL170AO | Poland, Augustów Forest | 2015 | H11 |
| | MU-PLAF4 | MU_PL180AO | Poland, Augustów Forest | 2015 | H13 |
| | MU-PLAF5 | MU_PL177AD | Poland, Augustów Forest | 2015 | H9 |
| | MU-PLAF6 | MU_PL166AD | Poland, Augustów Forest | 2015 | H2 |
| | MU-PLBF1 | MU_PL140BB | Poland, Białowieża Forest | 2011 | H15 |
| | MU-PLBF2 | MU_PL258BB | Poland, Białowieża Forest | 2011 | H16 |
| | MU-PLBF3 | MU_PL194BB | Poland, Białowieża Forest | 2015 | H7 |
| | MU-PLBF4 | MU_PL127BT | Poland, Białowieża Forest | 2014 | H2 |
| | MU-PLBF5 | MU_PL130BB | Poland, Białowieża Forest | 2014 | H4 |
| | MU-PLBF6 | MU_PL255BZ | Poland, Białowieża Forest | 2016 | H18 |

| subspecies | DNA symbol | sample symbol | Locality | year | COI haplotype |
|---------------------------------|------------|---------------|---------------------------------|------|---------------|
| <i>Monochamus sartor sartor</i> | MS-ITA1 | MS_89IT | Italy, Vallarsa | 2009 | H13 |
| | MS-ITA2 | AY260839 | Italy, Mules | - | H1 |
| | MS-ITA3 | AY260838 | Italy, Cima Gogna | - | H1 |
| | MS-ITA4 | AY260840 | Italy, Lorenzago | - | H15 |
| | MS-UKR1 | MS_99UK | Ukraine, Howerla | 2011 | H1 |
| | MS-UKR2 | MS_101UK | Ukraine, Howerla | 2011 | H1 |
| | MS-SLO1 | MS_171SK | Slovakia | - | H1 |
| | MS-SLO2 | MS_172SK | Slovakia | - | H1 |
| | MS-PLBE1 | MS_PL5BS | Poland, Bieszczady Mts. E | 2002 | H1 |
| | MS-PLBE2 | MS_PL4BS | Poland, Bieszczady Mts. E | 2002 | H4 |
| | MS-PLBE3 | MS_PL3BS | Poland, Bieszczady Mts. E | 2002 | H12 |
| | MS-PLBE4 | MS_PL156BL | Poland, Bieszczady Mts. E | 2016 | H1 |
| | MS-PLBE5 | MS_PL159BL | Poland, Bieszczady Mts. E | 2016 | H1 |
| | MS-PLBE6 | MS_PL162BL | Poland, Bieszczady Mts. E | 2016 | H1 |
| | MS-PLBC1 | MS_PL78BSW | Poland, Bieszczady Mts. central | 2015 | H1 |
| | MS-PLBC2 | MS_PL80BZ | Poland, Bieszczady Mts. central | 2015 | H11 |
| | MS-PLBC3 | MS_PL24BZ | Poland, Bieszczady Mts. central | 2013 | H4 |
| | MS-PLBC4 | MS_PL30BB | Poland, Bieszczady Mts. central | 2013 | H4 |
| | MS-PLBC5 | MS_PL32BB | Poland, Bieszczady Mts. central | 2013 | H4 |
| | MS-PLBC6 | MS_PL68BC | Poland, Bieszczady Mts. central | 2015 | H7 |
| | MS-PLBW1 | MS_PL72BK | Poland, Beskid Niski Mts. | 2015 | H1 |
| | MS-PLBW2 | MS_PL73BK | Poland, Bieszczady Mts. E | 2015 | H1 |
| | MS-PLBW3 | MS_PL74BK | Poland, Bieszczady Mts. E | 2015 | H1 |
| | MS-PLBW4 | MS_PL75BK | Poland, Bieszczady Mts. E | 2015 | H1 |
| | MS-PLBW5 | MS_PL76BK | Poland, Bieszczady Mts. E | 2015 | H1 |
| | MS-PLBW6 | MS_PL71BK | Poland, Bieszczady Mts. E | 2015 | H9 |
| | MS-PLBN1 | MS_PL70BNT | Poland, Bieszczady Mts. E | 2015 | H8 |
| | MS-PLPM1 | MS_PL167PK | Poland, Pieniny Mts. | 2016 | H2 |
| | MS-PLPM2 | MS_PL168PK | Poland, Pieniny Mts. | 2016 | H3 |
| | MS-PLPM3 | MS_PL163PK | Poland, Pieniny Mts. | 2016 | H14 |