**Supplement 1: Sampling information.**

**Supplement 1, Table 1: Samples included in this study.** The letters in IDs represent the morphology of samples. National Forest Inventory samples are specified with the abbreviation NFI in Location. The code (x.y) in column Location specify the nest (x) and individual (y). All samples were genotyped. Sequences were obtained from the samples marked with \* on column Seq. Two dense *F. fennica* supercolonies have been intensely sampled for another study (FF\_35-149 from Lammi and Ff\_404-561 from Öby). Of these samples, 3-4 individuals per supercolony were included in the genotyping dataset and two individuals per supercolony in the sequencing dataset (\*\*).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Morph** | **Seq** | **Location** | **Year** | **Coordinates** | | **Identified by** |
| Fe\_1 | *F. exsecta* | *\** | Alkärr1.1 | 2010 | 60.06159 | 23.85701 | Väänänen, S. |
| Fe\_2 | *F. exsecta* |  | Alkärr1.2 | 2010 | 60.06159 | 23.85701 | Väänänen, S. |
| Fe\_3 | *F. exsecta* |  | Alkärr2.1 | 2010 | 60.06159 | 23.85701 | Väänänen, S. |
| Fe\_4 | *F. exsecta* |  | Alkärr2.2 | 2010 | 60.06159 | 23.85701 | Väänänen, S. |
| Fe\_5 | *F. exsecta* |  | Alkärr3.1 | 2010 | 60.06159 | 23.85701 | Väänänen, S. |
| Fe\_6 | *F. exsecta* |  | Alkärr3.2 | 2010 | 60.06159 | 23.85701 | Väänänen, S. |
| Fe\_7 | *F. exsecta* |  | Alkärr4.1 | 2010 | 60.06159 | 23.85701 | Väänänen, S. |
| Fe\_8 | *F. exsecta* |  | Alkärr4.2 | 2010 | 60.06159 | 23.85701 | Väänänen, S. |
| Fe\_9 | *F. exsecta* | *\** | Alkärr5.1 | 2010 | 60.06159 | 23.85701 | Väänänen, S. |
| Fp\_10 | *F. pressilabris* | *\** | Antby1.1 | 2010 | 60.00741 | 23.68798 | Väänänen, S. |
| Fp\_11 | *F. pressilabris* |  | Antby1.2 | 2010 | 60.00741 | 23.68798 | Väänänen, S. |
| Fp\_12 | *F. pressilabris* |  | Antby2.1 | 2010 | 60.00741 | 23.68798 | Väänänen, S. |
| Fp\_13 | *F. pressilabris* |  | Antby2.2 | 2010 | 60.00741 | 23.68798 | Väänänen, S. |
| Fe\_14 | *F. exsecta* |  | Baggön1.1 | 2010 | 59.89272 | 23.51233 | Väänänen, S. |
| Fe\_15 | *F. exsecta* | *\** | Baggön1.2 | 2010 | 59.89272 | 23.51233 | Väänänen, S. |
| Fp\_16 | *F. pressilabris* | *\** | Baggön2.1 | 2010 | 59.89272 | 23.51233 | Väänänen, S. |
| Fp\_17 | *F. pressilabris* |  | Baggön2.2 | 2010 | 59.89272 | 23.51233 | Väänänen, S. |
| Fp\_18 | *F. pressilabris* |  | Baggön3.1 | 2010 | 59.89272 | 23.51233 | Väänänen, S. |
| Fp\_19 | *F. pressilabris* |  | Baggön3.2 | 2010 | 59.89272 | 23.51233 | Väänänen, S. |
| Fp\_20 | *F. pressilabris* |  | Baggön4.1 | 2010 | 59.89272 | 23.51233 | Väänänen, S. |
| Fp\_21 | *F. pressilabris* |  | Baggön4.2 | 2010 | 59.89272 | 23.51233 | Väänänen, S. |
| Fpi\_25 | *F. pisarskii* | *\** | E49.1 | –––––––– Goropashanaya et al. 2012 –––––––– | | | |
| Fpi\_26 | *F. pisarskii* |  | E49.2 |
| Fm\_27 | *F. manchu* | *\** | E51.1 |
| Fm\_28 | *F. manchu* |  | E51.2 |
| Fm\_29 | *F. manchu* |  | E52.1 |
| Fm\_30 | *F. manchu* |  | E52.2 |
| Fe\_31 | *F. exsecta* | *\** | Furuskär 6.1 | 2013 | 59.83326 | 23.26555 | Sundström, L. |
| Fe\_32 | *F. exsecta* |  | Furuskär 6.2 | 2013 | 59.83326 | 23.26555 | Sundström, L. |
| Fe\_33 | *F. exsecta* |  | Furuskär 145B1 | 2013 | 59.83326 | 23.26555 | Sundström, L. |
| Fe\_34 | *F. exsecta* |  | Furuskär 145B2 | 2013 | 59.83326 | 23.26555 | Sundström, L. |
| Ff\_35-149 | *F. fennica* | *\*\** | Supercolony in Lammi | 2008 | 61.06306 | 25.04979 | Punttila, P. |
| Fp\_150 | *F. pressilabris* | *\** | Finnpada1.1 | 2010 | 60.00881 | 23.87093 | Väänänen, S. |
| Fp\_151 | *F. pressilabris* |  | Finnpada1.2 | 2010 | 60.00881 | 23.87093 | Väänänen, S. |
| Fp\_152 | *F. pressilabris* | *\** | Finnpada2.1 | 2010 | 60.00881 | 23.87093 | Väänänen, S. |
| Fp\_153 | *F. pressilabris* |  | Finnpada2.2 | 2010 | 60.00881 | 23.87093 | Väänänen, S. |
| Fp\_154 | *F. pressilabris* |  | Finnpada3.1 | 2010 | 60.00881 | 23.87093 | Väänänen, S. |
| Fp\_155 | *F. pressilabris* |  | Finnpada3.2 | 2010 | 60.00881 | 23.87093 | Väänänen, S. |
| Fe\_156 | *F. exsecta* | *\** | Kaunissaari15.1 | 2013 | 60.17284 | 25.33687 | Punttila, P. |
| Fe\_157 | *F. exsecta* |  | Kaunissaari15.2 | 2013 | 60.17284 | 25.33687 | Punttila, P. |
| Fe\_158 | *F. exsecta* |  | Kaunissaari2.1 | 2013 | 60.17284 | 25.33687 | Punttila, P. |
| Fe\_159 | *F. exsecta* |  | Kaunissaari2.2 | 2013 | 60.17284 | 25.33687 | Punttila, P. |
| Fe\_160 | *F. exsecta* | *\** | Kaunissaari31.1 | 2013 | 60.17284 | 25.33687 | Punttila, P. |
| Fe\_161 | *F. exsecta* |  | Kaunissaari 31.2 | 2013 | 60.17284 | 25.33687 | Punttila, P. |
| Ff\_178 | *F. fennica* | *\** | Iisalmi1.1 | 2010 | 63.45991 | 27.18835 | Sorvari, J. |
| Ff\_179 | *F. fennica* |  | Iisalmi1.2 | 2010 | 63.45991 | 27.18835 | Sorvari, J. |
| Ff\_180 | *F. fennica* | *\** | Iisalmi2.1 | 2010 | 63.45991 | 27.18835 | Sorvari, J. |
| Ff\_181 | *F. fennica* |  | Iisalmi2.2 | 2010 | 63.45991 | 27.18835 | Sorvari, J. |
| Fe\_192 | *F. exsecta* |  | Joskar 73.1 | 2013 | 59.84587 | 23.25544 | Sundström, L. |
| Fe\_193 | *F. exsecta* |  | Joskar 73.2 | 2013 | 59.84587 | 23.25544 | Sundström, L. |
| Fe\_194 | *F. exsecta* | *\** | Orjansaari1.1 | 2013 | 61.22333 | 21.53373 | Sorvari, J. |
| Fe\_195 | *F. exsecta* |  | Orjansaari1.2 | 2013 | 61.22333 | 21.53373 | Sorvari, J. |
| Fe\_196 | *F. exsecta* | *\** | Lakkasuo10.1 | 2015 | 61.78565 | 24.30634 | Sorvari, J. |
| Fe\_197 | *F. exsecta* |  | Lakkasuo10.2 | 2015 | 61.78565 | 24.30634 | Sorvari, J. |
| Fe\_198 | *F. exsecta* | *\** | Ropinsalmi11.1 | 2010 | 68.68854 | 21.46448 | Sorvari, J. |
| Fe\_199 | *F. exsecta* |  | Ropinsalmi11.2 | 2010 | 68.68854 | 21.46448 | Sorvari, J. |
| Fe\_200 | *F. exsecta* | *\** | Lippumäki12.1 | 2014 | 62.84179 | 27.64978 | Sorvari, J. |
| Fe\_201 | *F. exsecta* |  | Lippumäki12.1 | 2014 | 62.84179 | 27.64978 | Sorvari, J. |
| Fe\_202 | *F. exsecta* | *\** | Finnilä2.1 | 2013 | 63.86572 | 23.24371 | Sorvari, J. |
| Fe\_203 | *F. exsecta* |  | Finnilä2.2 | 2013 | 63.86572 | 23.24371 | Sorvari, J. |
| Fe\_204 | *F. exsecta* | *\** | Pahamaailma3.1 | 2011 | 65.43667 | 29.67361 | Sorvari, J. |
| Fe\_205 | *F. exsecta* |  | Pahamaailma3.2 | 2011 | 65.43667 | 29.67361 | Sorvari, J. |
| Fe\_206 | *F. exsecta* | *\** | Sievari4.1 | 2012 | 61.31356 | 22.10003 | Sorvari, J. |
| Fe\_207 | *F. exsecta* |  | Sievari4.2 | 2012 | 61.31356 | 22.10003 | Sorvari, J. |
| Fe\_208 | *F. exsecta* | *\** | Ruka5.1 | 2008 | 66.11887 | 29.11368 | Sorvari, J. |
| Fe\_209 | *F. exsecta* |  | Ruka5.2 | 2008 | 66.11887 | 29.11368 | Sorvari, J. |
| Fe\_210 | *F. exsecta* | *\** | Kevo6.2 | 2008 | 69.74142 | 27.00087 | Sorvari, J. |
| Fe\_211 | *F. exsecta* |  | Kevo6.2 | 2008 | 69.74142 | 27.00087 | Sorvari, J. |
| Fe\_212 | *F. exsecta* | *\** | Olostunturi7.1 | 2008 | 67.92681 | 23.80951 | Sorvari, J. |
| Fe\_213 | *F. exsecta* |  | Olostunturi7.2 | 2008 | 67.92681 | 23.80951 | Sorvari, J. |
| Fe\_214 | *F. exsecta* | *\** | Sukeva8.1 | 2011 | 63.84628 | 27.44708 | Sorvari, J. |
| Fe\_215 | *F. exsecta* |  | Sukeva8.2 | 2011 | 63.84628 | 27.44708 | Sorvari, J. |
| Fe\_216 | *F. exsecta* | *\** | Äkäskerontie9.1 | 2010 | 67.81971 | 24.06988 | Sorvari, J. |
| Fe\_217 | *F. exsecta* |  | Äkäskerontie9.2 | 2010 | 67.81971 | 24.06988 | Sorvari, J. |
| Fe\_218 | *F. exsecta* | *\** | Kopparöfladan1.1 | 2010 | 59.90997 | 23.51818 | Väänänen, S. |
| Fe\_219 | *F. exsecta* |  | Kopparöfladan1.2 | 2010 | 59.90997 | 23.51818 | Väänänen, S. |
| Fp\_220 | *F. pressilabris* | *\** | Kämpbacka1.1 | 2010 | 60.09954 | 24.18760 | Väänänen, S. |
| Fp\_221 | *F. pressilabris* |  | Kämpbacka1.2 | 2010 | 60.09954 | 24.18760 | Väänänen, S. |
| Fp\_222 | *F. pressilabris* |  | Kämpbacka2.1 | 2010 | 60.09954 | 24.18760 | Väänänen, S. |
| Fp\_223 | *F. pressilabris* |  | Kämpbacka2.2 | 2010 | 60.09954 | 24.18760 | Väänänen, S. |
| Fe\_224 | *F. exsecta* | *\** | Kämpbacka3.1 | 2010 | 60.09954 | 24.18760 | Väänänen, S. |
| Fe\_225 | *F. exsecta* |  | Kämpbacka3.2 | 2010 | 60.09954 | 24.18760 | Väänänen, S. |
| Ff\_226 | *F. fennica* | *\** | Iitto1.1 | 2010 | 68.72866 | 21.42183 | Sorvari, J. |
| Ff\_227 | *F. fennica* |  | Iitto1.2 | 2010 | 68.72866 | 21.42183 | Sorvari, J. |
| Fe\_228 | *F. exsecta* | *\** | Längstrand1.1 | 2010 | 59.94770 | 23.17142 | Väänänen, S. |
| Fe\_229 | *F. exsecta* |  | Längstrand1.2 | 2010 | 59.94770 | 23.17142 | Väänänen, S. |
| Fe\_230 | *F. exsecta* |  | Mjölkholmen1.1 | 2010 | 60.03576 | 24.11302 | Väänänen, S. |
| Fe\_231 | *F. exsecta* |  | Mjölkholmen1.2 | 2010 | 60.03576 | 24.11302 | Väänänen, S. |
| Fe\_232 | *F. exsecta* | *\** | Mjölkholmen2.1 | 2010 | 60.03576 | 24.11302 | Väänänen, S. |
| Fe\_233 | *F. exsecta* |  | Mjölkholmen2.2 | 2010 | 60.03576 | 24.11302 | Väänänen, S. |
| Fe\_234 | *F. exsecta* | *\** | Prästkullantie1.1 | 2010 | 59.97957 | 23.35127 | Väänänen, S. |
| Fe\_235 | *F. exsecta* |  | Prästkullantie1.2 | 2010 | 59.97957 | 23.35127 | Väänänen, S. |
| Fe\_236 | *F. exsecta* |  | Prästkullantie2.1 | 2010 | 59.97957 | 23.35127 | Väänänen, S. |
| Fe\_237 | *F. exsecta* |  | Prästkullantie2.2 | 2010 | 59.97957 | 23.35127 | Väänänen, S. |
| Fe\_238 | *F. exsecta* |  | Prästkullantie3.1 | 2010 | 59.97957 | 23.35127 | Väänänen, S. |
| Fe\_239 | *F. exsecta* |  | Prästkullantie3.2 | 2010 | 59.97957 | 23.35127 | Väänänen, S. |
| Fe\_240 | *F. exsecta* |  | Prästkullantie4.1 | 2010 | 59.97957 | 23.35127 | Väänänen, S. |
| Fe\_241 | *F. exsecta* |  | Prästkullantie4.2 | 2010 | 59.97957 | 23.35127 | Väänänen, S. |
| Fp\_252 | *F. pressilabris* |  | Skaspåker1.1 | 2010 | 59.95213 | 23.66792 | Väänänen, S. |
| Fp\_253 | *F. pressilabris* |  | Skaspåker1.2 | 2010 | 59.95213 | 23.66792 | Väänänen, S. |
| Fp\_254 | *F. pressilabris* |  | Skaspåker2.1 | 2010 | 59.95213 | 23.66792 | Väänänen, S. |
| Fp\_255 | *F. pressilabris* |  | Skaspåker2.2 | 2010 | 59.95213 | 23.66792 | Väänänen, S. |
| Fe\_256 | *F. exsecta* |  | Skaspåker3.1 | 2010 | 59.95213 | 23.66792 | Väänänen, S. |
| Fe\_257 | *F. exsecta* |  | Skaspåker3.2 | 2010 | 59.95213 | 23.66792 | Väänänen, S. |
| Fp\_258 | *F. pressilabris* |  | Skaspåker4.1 | 2010 | 59.95213 | 23.66792 | Väänänen, S. |
| Fp\_259 | *F. pressilabris* |  | Skaspåker4.2 | 2010 | 59.95213 | 23.66792 | Väänänen, S. |
| Fe\_260 | *F. exsecta* |  | Skåldö1.1 | 2010 | 59.90116 | 23.47587 | Väänänen, S. |
| Fe\_261 | *F. exsecta* | *\** | Skåldö1.2 | 2010 | 59.90116 | 23.47587 | Väänänen, S. |
| Fe\_262 | *F. exsecta* | *\** | Skåldö2.1 | 2010 | 59.90116 | 23.47587 | Väänänen, S. |
| Fe\_263 | *F. exsecta* |  | Skåldö2.2 | 2010 | 59.90116 | 23.47587 | Väänänen, S. |
| Fp\_264 | *F. pressilabris* | *\** | Storsand1.1 | 2010 | 59.94688 | 23.68753 | Väänänen, S. |
| Fp\_265 | *F. pressilabris* |  | Storsand1.2 | 2010 | 59.94688 | 23.68753 | Väänänen, S. |
| Fp\_266 | *F. pressilabris* |  | Storsand2.1 | 2010 | 59.94688 | 23.68754 | Väänänen, S. |
| Fp\_267 | *F. pressilabris* |  | Storsand2.2 | 2010 | 59.94688 | 23.68754 | Väänänen, S. |
| Fp\_268 | *F. pressilabris* |  | Storsand3.1 | 2010 | 59.94689 | 23.68754 | Väänänen, S. |
| Fp\_269 | *F. pressilabris* |  | Storsand3.2 | 2010 | 59.94689 | 23.68754 | Väänänen, S. |
| Fp\_270 | *F. pressilabris* |  | Särkkilen1.1 | 2010 | 59.95195 | 23.70879 | Väänänen, S. |
| Fp\_271 | *F. pressilabris* | *\** | Särkkilen1.2 | 2010 | 59.95195 | 23.70879 | Väänänen, S. |
| Fp\_272 | *F. pressilabris* |  | Särkkilen2.1 | 2010 | 59.95195 | 23.70879 | Väänänen, S. |
| Fp\_273 | *F. pressilabris* |  | Särkkilen2.2 | 2010 | 59.95195 | 23.70879 | Väänänen, S. |
| Fp\_274 | *F. pressilabris* |  | Särkkilen3.1 | 2010 | 59.95195 | 23.70879 | Väänänen, S. |
| Fp\_275 | *F. pressilabris* |  | Särkkilen3.2 | 2010 | 59.95195 | 23.70879 | Väänänen, S. |
| Fp\_276 | *F. pressilabris* |  | Särkkilen4.1 | 2010 | 59.95195 | 23.70879 | Väänänen, S. |
| Fp\_277 | *F. pressilabris* |  | Särkkilen4.2 | 2010 | 59.95195 | 23.70879 | Väänänen, S. |
| Fe\_278 | *F. exsecta* | *\** | NFIfe1.1 | 2005 | 63.50213 | 27.17526 | Punttila, P.; Sorvari, J. |
| Fe\_279 | *F. exsecta* |  | NFIfe1.2 | 2005 | 63.50213 | 27.17526 | Punttila, P.; Sorvari, J. |
| Fe\_280 | *F. exsecta* | *\** | NFIfe10.1 | 2005 | 64.78043 | 26.86391 | Punttila, P.; Sorvari, J. |
| Fe\_281 | *F. exsecta* |  | NFIfe10.2 | 2005 | 64.78043 | 26.86391 | Punttila, P.; Sorvari, J. |
| Ff\_282 | *F. fennica* |  | NFIff11.1 | 2006 | 66.47080 | 29.06975 | Punttila, P. |
| Ff\_283 | *F. fennica* |  | NFIff11.2 | 2006 | 66.47080 | 29.06975 | Punttila, P. |
| Ff\_284 | *F. fennica* |  | NFIff12.1 | 2006 | 65.53854 | 25.36492 | Punttila, P. |
| Ff\_285 | *F. fennica* |  | NFIff12.2 | 2006 | 65.53854 | 25.36492 | Punttila, P. |
| Ff\_286 | *F. fennica* |  | NFIff13.1 | 2006 | 66.44964 | 23.69921 | Punttila, P. |
| Ff\_287 | *F. fennica* | *\** | NFIff13.2 | 2006 | 66.44964 | 23.69921 | Punttila, P. |
| Ff\_288 | *F. fennica* | *\** | NFIff14.1 | 2006 | 67.74515 | 26.84455 | Punttila, P. |
| Ff\_289 | *F. fennica* |  | NFIff14.2 | 2006 | 67.74515 | 26.84455 | Punttila, P. |
| Ff\_290 | *F. fennica* | *\** | NFIff15.1 | 2006 | 68.09450 | 25.85298 | Punttila, P. |
| Ff\_291 | *F. fennica* |  | NFIff15.2 | 2006 | 68.09450 | 25.85298 | Punttila, P. |
| Ff\_292 | *F. fennica* |  | NFIff16.1 | 2006 | 64.27232 | 28.31113 | Punttila, P. |
| Ff\_293 | *F. fennica* | *\** | NFIff16.2 | 2006 | 64.27232 | 28.31113 | Punttila, P. |
| Ff\_294 | *F. fennica* | *\** | NFIff17.1 | 2007 | 64.41666 | 26.59394 | Punttila, P. |
| Ff\_295 | *F. fennica* |  | NFIff17.2 | 2007 | 64.41666 | 26.59394 | Punttila, P. |
| Ff\_296 | *F. fennica* | *\** | NFIff18.1 | 2007 | 67.18054 | 24.07570 | Punttila, P. |
| Ff\_297 | *F. fennica* |  | NFIff18.2 | 2007 | 67.18054 | 24.07570 | Punttila, P. |
| Ff\_298 | *F. fennica* |  | NFIff19.1 | 2007 | 68.26434 | 24.88393 | Punttila, P. |
| Ff\_299 | *F. fennica* |  | NFIff19.2 | 2007 | 68.26434 | 24.88393 | Punttila, P. |
| Ff\_300 | *F. fennica* | *\** | NFIff2.1 | 2005 | 68.27666 | 25.87288 | Punttila, P.; Sorvari, J. |
| Ff\_301 | *F. fennica* |  | NFIff2.2 | 2005 | 68.27666 | 25.87288 | Punttila, P.; Sorvari, J. |
| Ff\_302 | *F. fennica* | *\** | NFIff20.1 | 2007 | 67.55174 | 28.68745 | Punttila, P. |
| Ff\_303 | *F. fennica* |  | NFIff20.2 | 2007 | 67.55174 | 28.68745 | Punttila, P. |
| Ff\_304 | *F. fennica* | *\** | NFIff21.1 | 2007 | 65.03158 | 26.86900 | Punttila, P. |
| Ff\_305 | *F. fennica* |  | NFIff21.2 | 2007 | 65.03158 | 26.86900 | Punttila, P. |
| Ff\_306 | *F. fennica* |  | NFIff22.1 | 2008 | 66.83580 | 25.47023 | Punttila, P. |
| Ff\_307 | *F. fennica* |  | NFIff22.2 | 2008 | 66.83580 | 25.47023 | Punttila, P. |
| Ff\_308 | *F. fennica* | *\** | NFIff23.1 | 2008 | 65.93811 | 28.60021 | Punttila, P. |
| Ff\_309 | *F. fennica* |  | NFIff23.2 | 2008 | 65.93811 | 28.60021 | Punttila, P. |
| Ff\_310 | *F. fennica* | *\** | NFIff24.1 | 2008 | 67.54590 | 29.17738 | Punttila, P. |
| Ff\_311 | *F. fennica* |  | NFIff24.2 | 2008 | 67.54590 | 29.17738 | Punttila, P. |
| Ff\_312 | *F. fennica* | *\** | NFIff25.1 | 2008 | 67.56025 | 27.29397 | Punttila, P. |
| Ff\_313 | *F. fennica* |  | NFIff25.2 | 2008 | 67.56025 | 27.29397 | Punttila, P. |
| Ff\_314 | *F. fennica* |  | NFIff26.1 | 2008 | 64.15088 | 26.29167 | Punttila, P. |
| Ff\_315 | *F. fennica* |  | NFIff26.2 | 2008 | 64.15088 | 26.29167 | Punttila, P. |
| Ff\_316 | *F. fennica* |  | NFIff27.1 | 2008 | 64.15088 | 26.29167 | Punttila, P. |
| Ff\_317 | *F. fennica* |  | NFIff27.2 | 2008 | 64.15088 | 26.29167 | Punttila, P. |
| Ff\_318 | *F. fennica* | *\** | NFIff3.1 | 2005 | 66.12218 | 25.94274 | Punttila, P.; Sorvari, J. |
| Ff\_319 | *F. fennica* |  | NFIff3.2 | 2005 | 66.12218 | 25.94274 | Punttila, P.; Sorvari, J. |
| Ff\_320 | *F. fennica* | *\** | NFIff4.1 | 2005 | 65.76697 | 26.82381 | Punttila, P.; Sorvari, J. |
| Ff\_321 | *F. fennica* |  | NFIff4.2 | 2005 | 65.76697 | 26.82381 | Punttila, P.; Sorvari, J. |
| Ff\_322 | *F. fennica* | *\** | NFIff6.1 | 2005 | 66.48443 | 26.85243 | Punttila, P.; Sorvari, J. |
| Ff\_323 | *F. fennica* |  | NFIff6.2 | 2005 | 66.48443 | 26.85243 | Punttila, P.; Sorvari, J. |
| Ff\_324 | *F. fennica* | *\** | NFIff7.1 | 2005 | 63.12761 | 26.04516 | Punttila, P.; Sorvari, J. |
| Ff\_325 | *F. fennica* |  | NFIff7.2 | 2005 | 63.12761 | 26.04516 | Punttila, P.; Sorvari, J. |
| Ff\_326 | *F. fennica* | *\** | NFIff9.1 | 2005 | 65.76697 | 26.82381 | Punttila, P.; Sorvari, J. |
| Ff\_327 | *F. fennica* |  | NFIff9.2 | 2005 | 65.76697 | 26.82381 | Punttila, P.; Sorvari, J. |
| Ffo\_328 | *F. forsslundi* |  | NFIffo1.1 | 2005 | 64.65573 | 28.93459 | Punttila, P. |
| Ffo\_329 | *F. forsslundi* | *\** | NFIffo1.2 | 2005 | 64.65573 | 28.93459 | Punttila, P. |
| Ffo\_330 | *F. forsslundi* | *\** | NFIffo10.1 | 2008 | 63.62599 | 27.72862 | Punttila, P. |
| Ffo\_331 | *F. forsslundi* |  | NFIffo10.2 | 2008 | 63.62599 | 27.72862 | Punttila, P. |
| Ffo\_332 | *F. forsslundi* |  | NFIffo11.1 | 2008 | 64.38766 | 29.17486 | Punttila, P. |
| Ffo\_333 | *F. forsslundi* |  | NFIffo11.2 | 2008 | 64.38766 | 29.17486 | Punttila, P. |
| Ffo\_334 | *F. forsslundi* |  | NFIffo12.1 | 2008 | 64.38766 | 29.17486 | Punttila, P. |
| Ffo\_335 | *F. forsslundi* |  | NFIffo12.2 | 2008 | 64.38766 | 29.17486 | Punttila, P. |
| Ffo\_336 | *F. forsslundi* | *\** | NFIffo13.1 | 2008 | 64.38766 | 29.17486 | Punttila, P. |
| Ffo\_337 | *F. forsslundi* |  | NFIffo13.2 | 2008 | 64.38766 | 29.17486 | Punttila, P. |
| Ffo\_338 | *F. forsslundi* | *\** | NFIffo2.1 | 2005 | 65.16470 | 26.58253 | Punttila, P. |
| Ffo\_339 | *F. forsslundi* |  | NFIffo2.2 | 2005 | 65.16470 | 26.58253 | Punttila, P. |
| Ffo\_340 | *F. forsslundi* | *\** | NFIffo3.1 | 2005 | 65.03094 | 27.45685 | Punttila, P. |
| Ffo\_341 | *F. forsslundi* |  | NFIffo3.2 | 2005 | 65.03094 | 27.45685 | Punttila, P. |
| Ffo\_342 | *F. forsslundi* | *\** | NFIffo4.1 | 2005 | 62.87317 | 24.97645 | Punttila, P. |
| Ffo\_343 | *F. forsslundi* |  | NFIffo4.2 | 2005 | 62.87317 | 24.97645 | Punttila, P. |
| Ffo\_344 | *F. forsslundi* |  | NFIffo5.1 | 2005 | 62.87317 | 24.97645 | Punttila, P. |
| Ffo\_345 | *F. forsslundi* |  | NFIffo5.2 | 2005 | 62.87317 | 24.97645 | Punttila, P. |
| Ffo\_346 | *F. forsslundi* | *\** | NFIffo6.1 | 2006 | 63.33328 | 22.97419 | Punttila, P. |
| Ffo\_347 | *F. forsslundi* |  | NFIffo6.2 | 2006 | 63.33328 | 22.97419 | Punttila, P. |
| Ffo\_348 | *F. forsslundi* |  | NFIffo7.1 | 2006 | 63.77532 | 28.30627 | Punttila, P. |
| Ffo\_349 | *F. forsslundi* | *\** | NFIffo7.2 | 2006 | 63.77532 | 28.30627 | Punttila, P. |
| Ffo\_350 | *F. forsslundi* | *\** | NFIffo8.1 | 2007 | 64.38381 | 24.27300 | Punttila, P. |
| Ffo\_351 | *F. forsslundi* |  | NFIffo8.2 | 2007 | 64.38381 | 24.27300 | Punttila, P. |
| Ffo\_352 | *F. forsslundi* | *\** | NFIffo9.1 | 2008 | 64.77992 | 26.58849 | Punttila, P. |
| Ffo\_353 | *F. forsslundi* |  | NFIffo9.2 | 2008 | 64.77992 | 26.58849 | Punttila, P. |
| Fp\_354 | *F. pressilabris* | *\** | NFIfp1.1 | 2005 | 61.68646 | 28.47034 | Punttila, P. |
| Fp\_355 | *F. pressilabris* |  | NFIfp1.2 | 2005 | 61.68646 | 28.47034 | Punttila, P. |
| Fp\_356 | *F. pressilabris* | *\** | NFIfp10.1 | 2006 | 60.83189 | 25.56280 | Punttila, P. |
| Fp\_357 | *F. pressilabris* |  | NFIfp10.2 | 2006 | 60.83189 | 25.56280 | Punttila, P. |
| Fp\_358 | *F. pressilabris* | *\** | NFIfp11.1 | 2006 | 63.13099 | 25.50182 | Punttila, P. |
| Fp\_359 | *F. pressilabris* |  | NFIfp11.2 | 2006 | 63.13099 | 25.50182 | Punttila, P. |
| Fp\_360 | *F. pressilabris* |  | NFIfp12.1 | 2007 | 62.86247 | 28.82155 | Punttila, P. |
| Fp\_361 | *F. pressilabris* |  | NFIfp12.2 | 2007 | 62.86247 | 28.82155 | Punttila, P. |
| Fp\_362 | *F. pressilabris* |  | NFIfp13.1 | 2007 | 63.52470 | 25.76260 | Punttila, P. |
| Fp\_363 | *F. pressilabris* |  | NFIfp13.2 | 2007 | 63.52470 | 25.76260 | Punttila, P. |
| Fp\_364 | *F. pressilabris* |  | NFIfp14.1 | 2007 | 62.32426 | 30.93358 | Punttila, P. |
| Fp\_365 | *F. pressilabris* |  | NFIfp14.2 | 2007 | 62.32426 | 30.93358 | Punttila, P. |
| Fp\_366 | *F. pressilabris* | *\** | NFIfp15.1 | 2007 | 62.01957 | 26.88216 | Punttila, P. |
| Fp\_367 | *F. pressilabris* |  | NFIfp15.2 | 2007 | 62.01957 | 26.88216 | Punttila, P. |
| Fp\_368 | *F. pressilabris* |  | NFIfp16.1 | 2007 | 61.05156 | 26.44150 | Punttila, P. |
| Fp\_369 | *F. pressilabris* |  | NFIfp16.2 | 2007 | 61.05156 | 26.44150 | Punttila, P. |
| Fp\_370 | *F. pressilabris* |  | NFIfp17.1 | 2007 | 61.16261 | 27.10830 | Punttila, P. |
| Fp\_371 | *F. pressilabris* |  | NFIfp17.2 | 2007 | 61.16261 | 27.10830 | Punttila, P. |
| Fp\_372 | *F. pressilabris* | *\** | NFIfp18.1 | 2008 | 61.03170 | 24.88759 | Punttila, P. |
| Fp\_373 | *F. pressilabris* |  | NFIfp18.2 | 2008 | 61.03170 | 24.88759 | Punttila, P. |
| Fp\_374 | *F. pressilabris* |  | NFIfp19.1 | 2008 | 60.73372 | 27.33138 | Punttila, P. |
| Fp\_375 | *F. pressilabris* |  | NFIfp19.2 | 2008 | 60.73372 | 27.33138 | Punttila, P. |
| Fp\_376 | *F. pressilabris* |  | NFIfp2.1 | 2005 | 62.63580 | 27.43718 | Punttila, P. |
| Fp\_377 | *F. pressilabris* |  | NFIfp2.2 | 2005 | 62.63580 | 27.43718 | Punttila, P. |
| Fp\_378 | *F. pressilabris* | *\** | NFIfp20.1 | 2008 | 61.85143 | 29.80821 | Punttila, P. |
| Fp\_379 | *F. pressilabris* |  | NFIfp20.2 | 2008 | 61.85143 | 29.80821 | Punttila, P. |
| Fp\_380 | *F. pressilabris* | *\** | NFIfp21.1 | 2008 | 64.01113 | 24.85152 | Punttila, P. |
| Fp\_381 | *F. pressilabris* |  | NFIfp21.2 | 2008 | 64.01113 | 24.85152 | Punttila, P. |
| Fp\_382 | *F. pressilabris* |  | NFIfp22.1 | 2008 | 64.77855 | 27.75953 | Punttila, P. |
| Fp\_383 | *F. pressilabris* |  | NFIfp22.2 | 2008 | 64.77855 | 27.75953 | Punttila, P. |
| Fp\_384 | *F. pressilabris* | *\** | NFIfp3.1 | 2005 | 63.75267 | 27.46649 | Punttila, P. |
| Fp\_385 | *F. pressilabris* |  | NFIfp3.2 | 2005 | 63.75267 | 27.46649 | Punttila, P. |
| Fp\_386 | *F. pressilabris* |  | NFIfp4.1 | 2005 | 63.24237 | 24.64805 | Punttila, P. |
| Fp\_387 | *F. pressilabris* | *\** | NFIfp4.2 | 2005 | 63.24237 | 24.64805 | Punttila, P. |
| Fp\_388 | *F. pressilabris* |  | NFIfp5.1 | 2005 | 61.48430 | 26.00207 | Punttila, P. |
| Fp\_389 | *F. pressilabris* |  | NFIfp5.2 | 2005 | 61.48430 | 26.00207 | Punttila, P. |
| Fp\_390 | *F. pressilabris* | *\** | NFIfp6.1 | 2005 | 61.57547 | 28.91695 | Punttila, P. |
| Fp\_391 | *F. pressilabris* |  | NFIfp6.2 | 2005 | 61.57547 | 28.91695 | Punttila, P. |
| Fp\_392 | *F. pressilabris* |  | NFIfp7.1 | 2006 | 63.01259 | 27.44872 | Punttila, P. |
| Fp\_393 | *F. pressilabris* |  | NFIfp7.2 | 2006 | 63.01259 | 27.44872 | Punttila, P. |
| Fp\_394 | *F. pressilabris* | *\** | NFIfp8.1 | 2006 | 61.59181 | 28.02322 | Punttila, P. |
| Fp\_395 | *F. pressilabris* |  | NFIfp8.2 | 2006 | 61.59181 | 28.02322 | Punttila, P. |
| Fp\_396 | *F. pressilabris* |  | NFIfp9.1 | 2006 | 61.59174 | 28.03263 | Punttila, P. |
| Fp\_397 | *F. pressilabris* |  | NFIfp9.2 | 2006 | 61.59174 | 28.03263 | Punttila, P. |
| Fs\_398 | *F. suecica* |  | NFIfs1.1 | 2005 | 62.60411 | 24.69871 | Punttila, P. |
| Fs\_399 | *F. suecica* | *\** | NFIfs1.2 | 2005 | 62.60411 | 24.69871 | Punttila, P. |
| Fs\_400 | *F. suecica* | *\** | NFIfs2.1 | 2005 | 62.60411 | 24.69871 | Punttila, P. |
| Fs\_401 | *F. suecica* |  | NFIfs2.2 | 2005 | 62.60411 | 24.69871 | Punttila, P. |
| Ff\_404-561 | *F. fennica1* | *\*\** | Supercolony in Öby | 2011 | 59.93965 | 23.19798 | Punttila, P. |
| 1 Samples from this population that are not included in this study, have been inspected by B. Seifert, and his conclusion is that they present the *rubens* morph of *F. exsecta* (in litt. to H. Helanterä et al.). | | | | | | | |

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