**Table S1.** Ct values obtained in multiplex real-time PCR for differentiating between body and head louse

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Louse** | **Ct values** | | **Country** | **Town/Province** |
| **FAM** | **VIC** |
| Body louse\_1003/4 | 21,56 | NA | France | Marseille |
| Body louse\_1160/1 | 20,84 | NA |
| Body louse\_1200/2 | 20,02 | NA |
| Body louse\_1229/6 | 18,33 | NA |
| Body louse\_1237/9 | 19,04 | NA |
| Body louse\_1237/10 | 20,19 | NA |
| Body louse\_1237/11 | 20,11 | NA |
| Body louse\_1237/16 | 20,24 | NA |
| Body louse\_1237/17 | 20,09 | NA |
| Body louse\_1237/19 | 20,51 | NA |
| Body louse\_1240/1 | 20,87 | NA |
| Body louse\_1245/4 | 20,72 | NA |
| Body louse\_1246/1 | 18,74 | NA |
| Body louse\_2002/2 | 19,04 | NA |
| Body louse\_2215 | 20,10 | NA |
| Body louse\_104 | 22,02 | NA | Hungary | Budapest |
| Body louse\_105 | 25,10 | NA |
| Body louse\_106 | 26,51 | NA |
| Body louse\_107 | 23,90 | NA |
| Body louse\_108 | 24,17 | NA |
| Body louse\_109 | 22,10 | NA |
| Body louse\_110 | 27,59 | NA |
| Body louse\_111 | 22,74 | NA |
| Body louse\_112 | 23,19 | NA |
| Body louse\_113 | 25,00 | NA |
| Body louse\_80 | 23,08 | NA | China | Inner Mongolia Province |
| Body louse\_82 | 21,58 | NA |
| Body louse\_83 | 23,50 | NA |
| Body louse\_83 | 30,84 | NA |
| Body louse\_86 | 31,98 | NA |
| Body louse\_87 | 20,68 | NA | Tiligi |
| Body louse\_88 | 22,17 | NA |
| Body louse\_89 | 26,41 | NA |
| Body louse\_90 | 20,49 | NA |
| Body louse\_91 | 22,43 | NA |
| Body louse\_92 | 21,94 | NA |
| Body louse\_93 | 22,84 | NA |
| Body louse\_94 | 21,74 | NA | Japan | Tokyo |
| Body louse\_95 | 21,28 | NA |
| Body louse\_96 | 20,08 | NA |
| Body louse\_97 | 20,89 | NA |
| Body louse\_98 | 21,43 | NA |
| Body louse\_99 | 23,07 | NA |
| Body louse\_100 | 21,86 | NA |
| Body louse\_101 | 22,04 | NA |
| Body louse\_102 | 22,07 | NA |
| Body louse\_103 | 22,42 | NA |
| Body louse\_70 | 21,66 | NA | Nepal | Pokava |
| Body louse\_71 | 21,71 | NA |
| Body louse\_72 | 23,48 | NA |
| Body louse\_73 | 23,08 | NA |
| Body louse\_74 | 22,29 | NA |
| Body louse\_75 | 23,22 | NA |
| Body louse\_76 | 26,08 | NA |
| Body louse\_78 | 24,11 | NA |
| Body louse\_79 | 23,88 | NA |
| Body louse\_223 | 30,34 | NA | Kenya | Nairobi |
| Body louse\_224 | 35,20 | NA |
| Body louse\_226 | 33,64 | NA |
| Body louse\_227 | 30,26 | NA |
| Body louse\_228 | 36,03 | NA |
| Body louse\_229 | 30,68 | NA |
| Body louse\_230 | 31,23 | NA |
| Body louse\_231 | 30,21 | NA |
| Body louse\_232 | 32,72 | NA |
| Body louse\_233 | 35,21 | NA |
| Body louse\_175 | 20,46 | NA | Madagascar | Borenty village |
| Body louse\_176 | 21,04 | NA |
| Body louse\_177 | 20,10 | NA |
| Body louse\_178 | 20,12 | NA |
| Body louse\_179 | 22,11 | NA |
| Body louse\_180 | 21,87 | NA |
| Body louse\_181 | 23,76 | NA |
| Body louse\_182 | 23,45 | NA |
| Body louse\_183 | 23,02 | NA |
| Body louse\_PDL1 | 19,28 | NA | USA | Laboratory colony |
| Body louse\_PDL3 | 18,88 | NA |
| Body louse\_PDL4 | 18,66 | NA |
| Body louse\_PDL6 | 18,62 | NA |
| Body louse\_PDL11 | 18,90 | NA |
| Body louse\_PDL13 | 18,57 | NA |
| Body louse\_PDL14 | 19,13 | NA |
| Body louse\_PDL7 | 18,92 | NA |
| Body louse\_PDL2 | 18,30 | NA |
| Body louse\_PDL9 | 17,53 | NA |
| Body louse\_PDL10 | 19,01 | NA |
| Body louse\_PDL4 | 21,18 | NA |
| Body louse\_PDL5 | 21,03 | NA |
| Head louse\_13 | NA | 31,52 | USA | Washington |
| Head louse\_14 | NA | 32,36 |
| Head louse\_15 | NA | 32,04 |
| Head louse\_16 | NA | 35,44 |
| Head louse\_17 | NA | 37,34 |
| Head louse\_19 | NA | 36,01 |
| Head louse\_9 | NA | 34,43 | Brazil | Amazonia |
| Head louse\_10 | NA | 35,87 |
| Head louse\_11 | NA | 33,92 |
| Head louse\_12 | NA | 39,17 |
| Head louse\_14 | NA | 35,69 |
| Head louse\_172 | NA | 37,51 |
| Head louse\_173 | NA | 36,56 |
| Head louse\_175 | NA | 37,32 |
| Head louse\_20 | NA | 35,47 | Sao Cristovao |
| Head louse\_21 | NA | 37,84 |
| Head louse\_23 | NA | 35,22 |
| Head louse\_24 | NA | 39,33 |
| Head louse\_25 | NA | 38,18 |
| Head louse\_29 | NA | 23,20 |
| Head louse\_30 | NA | 36,56 | Australia | Brisbane |
| Head louse\_31 | NA | 35,45 |
| Head louse\_34 | NA | 38,16 |
| Head louse\_36 | NA | 37,01 |
| Head louse\_37 | NA | 37,88 |
| Head louse\_50 | NA | 36,43 | Papua New Guinea | Highlands |
| Head louse\_51 | NA | 36,33 |
| Head louse\_54 | NA | 36,26 |
| Head louse\_55 | NA | 36,21 |
| Head louse\_56 | NA | 37,64 |
| Head louse\_60 | NA | 35,71 | New Zeeland | Auckland |
| Head louse\_61 | NA | 35,94 |
| Head louse\_62 | NA | 37,74 |
| Head louse\_63 | NA | 36,43 |
| Head louse\_64 | NA | 38,07 |
| Head louse\_66 | NA | 37,20 |
| Head louse\_67 | NA | 36,89 |
| Head louse\_68 | NA | 37,45 |
| Head louse\_69 | NA | 37,16 |
| Head louse\_160 | NA | 24,45 | Madagascar | Bedaro village |
| Head louse\_161 | NA | 24,79 |
| Head louse\_162 | NA | 24,54 |
| Head louse\_163 | NA | 36,13 |
| Head louse\_165 | NA | 24,09 |
| Head louse\_166 | NA | 28,02 |
| Head louse\_168 | NA | 26,78 |
| Head louse\_170 | NA | 26,23 |
| Head louse\_171 | NA | 36,16 |
| Head louse\_172 | NA | 28,20 |
| Head louse\_173 | NA | 29,55 |
| Head louse\_174 | NA | 27,44 |
| Head louse\_48 | NA | 27,54 | Senegal | Dakar |
| Head louse\_95 | NA | 28,17 |
| Head louse\_96 | NA | 24,03 |
| NTC | NA | NA |  |  |

NA: signal not detected; NTC: non template control