**S2 Table. List of Barcode Index Numbers (BINs) with their associated species or morphospecies (hereafter ‘taxa’) obtained from the Barcode of Life Data Systems (BOLD; last visited august 2016). Taxa are listed alphabetically and ranked by subfamily, tribe, genus and subgenus. Distances (p-distance) correspond to the percentage of dissimilar pairwise nucleotides and counts correspond to the number of voucher specimens included in this study followed, between brackets, by the total number of specimens (including ours) present in the BOLD database.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **BIN** | **Species/morphospecies** | **Average distance** | **Maximum distance** | **Nearest-neighbour distance** | **Count** |
| **Anophelinae** | |  |  |  |  |
| ACZ3766 | *An.* (*Ano.*) *eiseni* | 0.94 | 0.94 | 7.06 | 2 |
| ACZ4390 | *An.* (*Ker.*) *neivai* | 0 | 0 | 6.74 | 4 |
| **Culicinae: Aedini** | |  |  |  |  |
| ABW1628 | *Ae.* (*Gec.*) *fluviatilis* | 1.11 | 1.53 | 9.62 | 2(6) |
| ACZ4358 | *Ae.* (*How.*) *arborealis* | NA | NA | 9.00 | 1 |
| AAH9007 | *Ae.* (*Och.*) *scapularis* | 1.15 | 5.00 | 6.68 | 3(301) |
| AAN3110 | *Ae.* (*Och.*) *serratus* | 1.33 | 2.41 | 1.70 | 2(10) |
| AAA4210 | *Ae.* (*Stg.*) *aegypti* | 1.07 | 6.31 | 1.58 | 3(538) |
| AAU1467 | *Hg.* (*Hag.*) *janthinomys* | 1.09 | 1.99 | 7.13 | 3(12) |
| AAO0580 | *Ps.* (*Jan.*) *ferox* | 1.18 | 2.00 | 1.77 | 3(13) |
| **Culicinae: Culicini** | |  |  |  |  |
| AAG3837 | *Cx.* (*Car.*) *infoliatus/urichii* | 0.41 | 0.77 | 7.25 | 5(14) |
| ACZ3921 | *Cx.* (*Car.*)sp.stI | 0.16 | 0.16 | 4.51 | 2 |
| AAN3636 | *Cx.* (*Cux.*) *coronator* | 0.66 | 2.95 | 1.17 | 5(136) |
| AAF1735 | *Cx.* (*Cux.*) *mollis* | 1.45 | 5.07 | 1.59 | 3(294) |
| AAA4751 | *Cx.* (*Cux.*) *quinquefasciatus* | 0.14 | 5.01 | 0.98 | 2(3314) |
| ABX7935 | *Cx.* (*Mcx.*) *imitator* | 0.61 | 0.92 | 4.17 | 2(4) |
| ACZ4187 | *Cx.* (*Mcx.*) *pleuristriatus* | 0.29 | 0.61 | 7.71 | 2 |
| ACZ3799 | *Cx.* (*Mcx.*) *stonei* | 0.94 | 0.94 | 8.23 | 2 |
| ACZ4071 | *Cx.* (*Mcx.*) *stonei* | 0.20 | 0.31 | 4.65 | 3 |
| ACZ4175 | *Cx.* (*Mcx.*) *stonei* | NA | NA | 4.01 | 1 |
| ACZ4194 | *Cx.* (Uncertain) *nigrimacula* | 0 | 0 | 8.45 | 3 |
| ACZ4158 | *Cx.* (Uncertain) *ocellatus* | 0.42 | 0.92 | 8.30 | 5 |
| ACZ4398 | *Culex* sp.stJ | 0.41 | 0.61 | 11.25 | 3 |
| ACZ4266 | *Culex* sp.stK | 0 | 0 | 2.89 | 2 |
| ACZ3899 | *Culex* sp.stL | NA | NA | 9.63 | 1 |
| AAW1435 | *Lt.* (*Lut.*) *allostigma* | 0.12 | 0.31 | 5.62 | 2(5) |
| **Culicinae: Orthopodomyiini** | |  |  |  |  |
| ACZ4163 | *Or. fascipes* | 0.16 | 0.16 | 2.41 | 2 |
| **Culicinae: Sabethini** | |  |  |  |  |
| ACZ4070 | *Jb. longipes* | 0.62 | 1.83 | 8.24 | 6 |
| ACZ4300 | *Jb. ulopus* | 0.62 | 0.62 | 9.21 | 2 |
| ACN9473 | *Li. durhamii* | 0.13 | 0.31 | 1.12 | 5(6) |
| AAW1293 | *Li. flavisetosus* | 0.03 | 0.15 | 7.54 | 3(10) |
| ACN0508 | *On.* sp.stA | 0.13 | 0.31 | 11.08 | 5(6) |
| ACZ3754 | *Ru.* (*Cte.*) *magna* | 0.10 | 0.15 | 2.57 | 3 |
| ACZ3755 | *Ru.* (*Cte.*) *magna* | 0.76 | 0.76 | 2.57 | 2 |
| AAW5410 | *Sa.* (*Pey.*) *undosus* | 0.10 | 0.31 | 3.53 | 5(6) |
| ACZ3825 | *Sa.* (*Pey.*) *hadrognathus* | NA | NA | 5.94 | 1 |
| ACZ3826 | *Sa.* (*Pey.*) *hadrognathus* | 0.46 | 0.46 | 5.94 | 2 |
| ACZ3779 | *Sa.* (*Pey.*) *paradoxus* | 0 | 0 | 8.19 | 2 |
| ACZ3827 | *Sa.* (*Pey.*) *soperi* | 0 | 0 | 8.99 | 3 |
| ACZ3811 | *Sa.* (*Pey.*)sp.stD | NA | NA | 9.47 | 1 |
| ACZ3883 | *Sa.* (*Sab.*) *cyaneus* | NA | NA | 7.88 | 1 |
| ACZ4359 | *Sa.* (*Sab.*)sp.stE | 0 | 0 | 1.77 | 2 |
| ACZ3810 | *Sa.* (*Sab.*)sp.stM | NA | NA | 8.84 | 1 |
| ACZ3828 | *Sa.* (*Sbn.*) *idiogenes* | 0 | 0 | 3.21 | 3 |
| ACZ4350 | *Sa.* (*Sbn.*)sp.stF | 0 | 0 | 3.21 | 2 |
| ACZ4319 | *Sh. fluviatilis* | NA | NA | 3.70 | 1 |
| ACZ4320 | *Sh. fluviatilis* | NA | NA | 3.70 | 1 |
| ACZ3895 | *Sh. schedocyclia* | 0 | 0 | 1.93 | 2 |
| ACZ3896 | *Sh. schedocyclia* | 0.10 | 0.15 | 1.93 | 3 |
| ACZ3752 | *Tr. compressum* | NA | NA | 6.90 | 1 |
| AAG3842 | *Tr. digitatum* | 0.23 | 0.46 | 2.57 | 1(4) |
| ACZ3792 | *Tr. digitatum* | 0 | 0 | 2.57 | 2 |
| ACZ3837 | *Tr. pallidiventer* | NA | NA | 7.06 | 1 |
| ACZ3838 | *Tr. pallidiventer* | 0 | 0 | 7.06 | 2 |
| ACZ4400 | *Trichoprosopon* sp.stG | NA | NA | 8.51 | 1 |
| ACZ4399 | *Trichoprosopon* sp.stH | NA | NA | 6.90 | 1 |
| ACZ4113 | *Wy.* (*Cae.*)sp.stB | 1.07 | 1.07 | 8.52 | 2 |
| ACZ3978 | *Wy.* (*Cru.*) *forattinii* | 0.12 | 0.31 | 8.35 | 5 |
| AAG3839 | *Wy.* (*Dec.*) *pseudopecten* | 1.38 | 2.45 | 4.49 | 4(7) |
| ACZ4104 | *Wy.* (*Dec.*) *pseudopecten* | 0.29 | 0.78 | 5.24 | 6 |
| ACA0978 | *Wy.* (*Den.*) *complosa* | 1.63 | 3.06 | 7.88 | 5(14) |
| ACZ3898 | *Wy.* (*Den.*) *luteoventralis* | 1.36 | 3.06 | 4.49 | 9 |
| ACZ3881 | *Wy.* (*Den.*) *testei* | 0.13 | 0.31 | 8.17 | 7 |
| ACZ4034 | *Wy.* (*Den.*) *ypsipola* | 0.22 | 0.32 | 7.50 | 3 |
| ACZ4140 | *Wy.* (*Dod.*) *aphobema* | 0.46 | 0.46 | 2.73 | 2 |
| ACZ3890 | *Wy.* (*Hys.*) *lamellata* | 0.16 | 0.31 | 4.29 | 4 |
| ACZ3891 | *Wy.* (*Myamyia*) *oblita* | 0 | 0 | 5.94 | 2 |
| ACZ4220 | *Wy.* (*Pho.*) *splendida* | 0.34 | 0.61 | 7.38 | 5 |
| ACZ4080 | *Wy.* (*Spi.*) *bourrouli* | 0.15 | 0.15 | 8.67 | 2 |
| ACZ4142 | *Wy.* (*Triamyia*) *aporonoma* | 0 | 0 | 3.05 | 3 |
| ACZ3855 | *Wy.* (*Wyo.*) *arthrostigma* | NA | NA | 2.29 | 1 |
| ACZ3856 | *Wy.* (*Wyo.*) *arthrostigma* | 0.00 | 0.00 | 2.29 | 4 |
| ACZ4079 | *Wy.* (*Wyo.*) *pertinans* | 0.45 | 1.68 | 1.44 | 11(12) |
| ACZ3847 | *Wy.* (*Wyo.*) *robusta* | 0.31 | 0.62 | 10.48 | 5 |
| ACZ4171 | *Wy.* (Uncertain) *albosquamata* | 0.06 | 0.16 | 9.19 | 5 |
| ABW3718 | *Wy.* (Uncertain) *argenteorostris* | 0.16 | 0.31 | 11.56 | 4(6) |
| ACZ4141 | *Wy.* (Uncertain) *compta* | 0 | 0 | 3.08 | 3 |
| ACZ3830 | *Wy.* (Uncertain) *melanocephala* | 0.21 | 0.46 | 2.25 | 5 |
| ACZ4130 | *Wy.* (Uncertain) *occulta* | 0.36 | 0.48 | 9.66 | 6 |
| ACZ4312 | *Wy.* (Uncertain) *surinamensis* | 0.12 | 0.31 | 7.20 | 5 |
| ACZ4143 | *Wyeomyia* sp.stC | 0.10 | 0.15 | 10.00 | 3 |
| **Culicinae: Toxorhynchitini** | |  |  |  |  |
| ACZ4355 | *Tx.* (*Lyn.*) *guadeloupensis* | 0.31 | 0.61 | 8.26 | 4 |
| ACZ4120 | *Tx.* (*Lyn.*) *haemorrhoidalis haemorrhoidalis* | 0.49 | 0.77 | 7.04 | 5 |
| ACZ3913 | *Tx.* (*Lyn.*) *haemorrhoidalis superbus* | 0.25 | 0.47 | 1.44 | 6 |
| ACZ3996 | *Tx.* (*Lyn.*) *haemorrhoidalis superbus* | 0 | 0 | 1.44 | 3 |
| ACZ4119 | *Tx.* (*Lyn.*) *haemorrhoidalis superbus* | NA | NA | 6.38 | 1 |
| ACZ4278 | *Tx.* (*Lyn.*) *moctezuma* | NA | NA | 8.08 | 1 |