**Table S3** Population/species assignments for TreeMix analyses

|  |  |  |  |
| --- | --- | --- | --- |
|  | *Aquarana* | *R. okaloosae* and  *R. clamitans* ML tree clades | *R. okaloosae* and  *R. clamitans* LEA K=4 |
| RclaA\_AL | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaB\_AL | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaF\_CT | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBS\_DC | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBT\_DC | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBU\_DC | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaI\_FL | Rcla\_NE | Rcla\_FL | Rcla\_mid |
| RclaJ\_FL | Rcla\_NE | Rcla\_FL | Rcla\_mid |
| RclaK\_FL | Rcla\_NE | Rcla\_FL | Rcla\_mid |
| RclaM\_GA | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaN\_GA | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaO\_IL | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaQ\_IL | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaR\_IN | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaS\_IN | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaT\_IN | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaU\_KY | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaV\_KY | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaW\_KY | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaX\_KY | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaAH\_MI | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaAI\_MI | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaAJ\_MI | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaAK\_MN | Rcla\_NE | Rcla\_NW | Rcla\_mid |
| RclaAL\_MN | Rcla\_NE | Rcla\_NW | Rcla\_mid |
| RclaAR\_MO | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaAS\_MO | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaAW\_NF | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaAZ\_OH | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBA\_OH | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBB\_OH | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBC\_ON | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBD\_ON | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBE\_ON | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBG\_TN | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBH\_TN | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBJ\_TN | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBK\_TN | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBL\_TN | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaBQ\_VT | Rcla\_NE | Rcla\_NE | Rcla\_mid |
| RclaH\_CT | Rcla\_NE | Rcla\_NE | Rcla\_NE |
| RclaAE\_ME | Rcla\_NE | Rcla\_NE | Rcla\_NE |
| RclaAF\_ME | Rcla\_NE | Rcla\_NE | Rcla\_NE |
| RclaAG\_ME | Rcla\_NE | Rcla\_NE | Rcla\_NE |
| RclaAT\_NB | Rcla\_NE | Rcla\_NE | Rcla\_NE |
| RclaAU\_NB | Rcla\_NE | Rcla\_NE | Rcla\_NE |
| RclaAV\_NB | Rcla\_NE | Rcla\_NE | Rcla\_NE |
| RclaAX\_NF | Rcla\_NE | Rcla\_NE | Rcla\_NE |
| RclaAY\_NF | Rcla\_NE | Rcla\_NE | Rcla\_NE |
| RclaBR\_VT | Rcla\_NE | Rcla\_NE | Rcla\_NE |
| RclaP\_IL | Rcla\_NE | Rcla\_NW | Rcla\_NW |
| RclaAM\_MN | Rcla\_NE | Rcla\_NW | Rcla\_NW |
| RclaAQ\_MO | Rcla\_NE | Rcla\_NW | Rcla\_NW |
| RclaBV\_WI | Rcla\_NE | Rcla\_NW | Rcla\_NW |
| RclaBW\_WI | Rcla\_NE | Rcla\_NW | Rcla\_NW |
| RclaBX\_WI | Rcla\_NE | Rcla\_NW | Rcla\_NW |
| RclaC\_AR | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaD\_AR | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaE\_AR | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaAA\_LA | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaAB\_LA | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaAC\_LA | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaAD\_LA | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaY\_LA | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaZ\_LA | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaAN\_MS | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaAO\_MS | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaAP\_MS | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaBM\_TX | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaBN\_TX | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RclaBO\_TX | Rcla\_SW | Rcla\_SW | Rcla\_SW |
| RokaA\_FL | Roka | Roka | Roka |
| RokaB\_FL | Roka | Roka | Roka |
| RokaC\_FL | Roka | Roka | Roka |
| RsepA\_ME | Rsep | NA | NA |
| RsepB\_ME | Rsep | NA | NA |
| RsepC\_ME | Rsep | NA | NA |
| RsepE\_MN | Rsep | NA | NA |
| RsepF\_MN | Rsep | NA | NA |
| RcatA\_AR | Rcat | NA | NA |
| RcatB\_AR | Rcat | NA | NA |
| RcatC\_CT | Rcat | NA | NA |
| RcatD\_CT | Rcat | NA | NA |
| RcatF\_TN | Rcat | NA | NA |