Table 1. Character state matrix of 158 characters for Unionicola mites. The outgroup Neumania is listed first. The character sequence corresponds to characters and character states listed for Unionicola mites in Appendix 6 of Mites of Freshwater Mollusks by Edwards and Vidrine (2014).

Neumania	10002103010???????100001301011000100100000011000000000000011110000000000321000100010000000000000000000000000100000017!?!?!?000100000000000000000010000000700000000
U.anodontae	12100102022000120110010020000001001000000101000001000201111100110001000100010011010000000000000000000000000020202020001000000000000000010000003201000000
U.ampullariae	01100121110000000012001201101000170010000010100000000000001333000000001000000000000000000000000020000010202020200010000000000000000200000032101000000
U.wolcotti	01100101020012022010000101000100010010100011110000000000002111110000000010031000000010001000100000000000000021100010101010001010011011012000010000003102000000
U.cooki	01100101010000100011100102001000101011001011110000000000002110110000000001220100010007070070000000000000000000000000000000000000000000000000000000000
U.perforata	03100102012027231100110202110000120001000100010002000201100110011000022701100001101010000000000000000003110001021?1?1?000100001100111100001000000320200000
U.sinuata	01100102020000113011001020001000101200000000000000020002011110011100022000000001101000000000000000000010000017!?1?1?000100000000000000010000003201000000
U.hammeni	01100102010000100011001020001000101100100001000000000000021111100011100??2200?70?001100010000000000000010000131300017?????????110110000000000000000010000000??11000
U.macani	01100102021212122010001010001000100001101011110000001000021111100000001000100010010100000010000000000200000010101010001000011110022000010100002102010000
U.dadayi	01100101010000101011100101000100017000000001000300000200002111110000011102271100100000000000000000000000200000101010100010000111100220000100000070001000
U.separata	01201000007?????7011001020211100010110000010003000000000012111100000000011001000100007??000000000000000000000000000000000?????7001000011110022000000000007000000000
U.berezai	03100102100012123010001020001000101201010011000000001000020101010011000022700100701101000000000000000000003110000200000000000011110011111001000000320200000
U.megachela	01100102020212122010001020001000101101001011010010020000211110000000001101000000110101000000000010000001000001171?1?1?1?000100001111002200001000000310200000
U.hensleyi	01100101010212123010001010001000100100000110100000200012111110000000001101000000010200100000000010000000000000000000000000000100001100112200001000000310100000
U.banguiensis	01100111020000110110001110001000100201000011010100020002011100010000011307101010211010010000000000000000000000000000000000000000000000000000200000032120001 10
U.serrata	01100131021212122010001300001000170101001011010001002000021111100000000033011000001102000000000000000000000000000000000000000000000000000000000000000
U.gledhilli	01100101022000110111000010011003100100000000010000002000200110100000001227101010111020000000000000000000000000000000000000000000000000000017010000110000000000010000003212000110
U.setifera	01100101010000100011100001000100000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
U.latilaminata	01100101010000000010010020011000101110000000000000000000000001111110000000000021000100000000000000000000000000000000000000000000000000000000000000000
U.tumidipalpis	01100101010000100011001020001000101000000011000010000000021111110001122700001007??000000000000000000000000000000000000000000000000000000000000000000
U.billieaehonore	02100101111000012001000001100102100000000000000100000000000000220011711110000??00?????????????????1000000000000000000000000000000000000000000000000
U.prehendens	01100101010000100011001010001000100101000010011000000000?????1???0?????????????????????????0000000000000000000000000000000000000000000000000
U.inflexa	01100101010000100011001010010010001001000000000000021111000000100111210000100010001000100000000000000000000000000000000000000000000000000000000000000
U.tumida	02100131121100120010001031101000100201000000010000002000121111100000000112271010001102000000000000000000000000000000000000000000000000000003100000320200000
U.crassipalpis	01100101010000100011001010010010001000010000011100000000000001111110000000001223100000000000000000000000000000000000000000000000000000000000000000000
U.figuralis	01100101010000100010010010010010000000000000000000000000000021111100000000002100010000000000000000000000000000000000000000000000000000000000000000000
U.pectinatus	01100101010000100010010010010010010010010030000000000021111100000000000010001001107000000000000000000000003110100170202020001000000000000000010000000707000000
U.davisi	01100121121000110110002110010010010010001122000002000020111100000000122710101001101000000000000000000000100010171?1?1?000100000000000000000200000320700000
U.insolita	01100101010000000100010200010010100000000000000000000000021111100000101002271000100000000000000000000000000000000000000000000000000000200000007000000
U.gereckei	01100101010000100011001020001000101000000011100000000000021111100001001010100110000000000000000000000000000000000000000000000000000000000000007000000
U.aberrans	01100101010000100011001020001000101000000010000000000000021111100000100000210010000000010000000010000000000000000000000000000000000000000000007000000
U.longipes	01100101010000100011001010010010010000000010010000000000021111100110012270000100170700000000000000000000000000000000000000000000000000000000000000000
U.retractidens	01100101010000100011001020001000101000000010010000000000021111100011002270000100170700000000000000000000003000000?????????001100000000000000000000000007000000
U.statzneri	01100101010000100011001010010010010000000110100000000000211100001100102270000101010010000000000000000000011310001002020202000110000000000000000000000007000000
U.falcipes	01110007?????001000170010200010010017???0?????????000000020111100?????????????????????????1?000000001000000013100000020202020071000000000000000000000000007000000
U.falcifera	01100101021012122010001020001000101201001011110000000000002011100000000011210007000101000000000000000000000200000020202020001000000000000000000000007000000
U.laurentiana	11100101010000100011001010010010010110000000000000000000000021111100000000100211000000000000000000000000000000000000000000000000000000000000000000000
U.procursa	01100101022000110011001020011100000001010100001000021111100000000022710100001100000000000000000000000100000020202020010011000000000000000000000003200000000
U.cirrosa	01100101020011102011000000010000111000000110101000010000211111000000000227101000011000000000000000000000000100000202020200100110000000000000000000003200000000
U.heardi	01100131121211122110001311011000100100000011010000031111211101000000000100010001001100000000000000000000000311000102171?020001000011001111000020000003101000000
U.botswaniana	03100101022000120110001020211000101100000001010000001001020111110000000010010001001100000000000000000000000000000020202020001000000000000000200000003202000000
U.brandti	02100121121000120110001201101000101010000010100000000001121111100000000011117101010011020000000000000000000020000002020202000100000000000000000200000003201000000
U.conjuncta	01100101010000100011001020000000101001000001010000000000021111000000000100210007000007000000000000000000000???000002?????7000170000000000000000100000007700000000
U.furcula	01100101010000100011001020000000101001000001010000000000021111000011001227100010000000000000000000000000???000002??????7000170000000000000000100000010000000000
U.longidens	01100101010000100011001020000000101001000001010000000000021111000010000021000700??0?000000000000000000000???000002??????7000170000000000000000100000007?00000110
U.poirrieri	01100101010000100011001010000000010000100000000000000000021111000000000111210000000100000000000000000000003110000021?1?1?000100000000000000000100000001000000000
U.blayi	01100121120000110110000111011001001010000010000000000100020111110000000010001010100111100000000000000000000100000000000020200001011110001010100020000003201000010
U.arcuata	02100131121000120110001311111000100101010000010000000000200111000000001330101001101000000000000000000002100000020202020001000000000000000200000003202000000
U.causeyae	01100101021212122110001010001000100100100100100100200002111110000000001231100100110010000000010000000000000020202020001000011110022000010000003102000000
U.campelomaicola	01100111021212122110001110111000100100000010100000020000211110000000010031100000010000000000000000000000000020202020001000011001111000010000002102000000
U.bonzi	01100101021012122010001020001000101000000011010000000000021111100000110000010010000000000000000000000000000000010202020200010000000000000000100000003100000000
U.aculeata	01100101021012122010001020001000101000000000010110000000000021111100000101002010000001000000000000000000000200000020202020001000000000000000100000003100000000
U.hankoi	01100101021012122010001010001000100000000010110100010000000021111100000110012010020000100000000000000000000200000020202020001000011110022000010000003100000110
U.bicornis	01100101021012122010001010001000100000000010110100010010000211011000001100227100200011000000000000000000002000000202020200010000111100220011100000007010000000
U.formosa	02100121121000120110002211110000100101100011000000010000121111000000100010000001110700000000000000000000200000101010101000101001100101200002000000320000000
U.tetrafurcatus	02100131121000120110001311110000100101000011000000072000721111100700000?????100000001117000000000000000000002000001010101000101001100112200002000000320700000
U.tupara	03110000000000000000001102000100101010000010000000010000201110100000000020101000011020000000000000000000003110000020000000010011000000000000100000003201000000
U.pachyscelus	03110000000000000000001102000100101010000010000000000000021111100711000022701100001102000000000000000000001000001171?1?1?000100???????????????100000003201000000
U.lumbaria	01100101021012122010001020001000101101000001010000000000021111100000000133000010001000100000100000000000002000000202020200010010110010220002000000310000000
U.parasitica	01100101021012122010001013130110010010100000101000000000021000000000201000100000100100100100100100100100100110010220002000000310000000
U.pilosa	01100121010000100012001211001000100100000010100000010000211110000000011101000001100000000000000000000000000020202020001000011000022000010000000700000000
U.newsumi	01100101010000100011001010010010010100000000030000001000021111100001000002210000001000000000000000000000000000020202020001000011110022000010000000700000000