**S1 File. Newick format maximum-likelihood phylogeny for 1745 taxa representing 1652 snake species and 7 outgroup taxa displayed in Fig 2.**

(((Heloderma\_suspectum:6.229122,(Elgaria\_multicarinata:4.989789,Varanus\_salvator:3.889949)64:2.657709)100:2.091001,((Plica\_plica:5.044157,Liolaemus\_darwinii:5.298251)100:6.037607,(Chamaeleo\_calyptratus:5.031263,Calotes\_versicolor:6.465167)100:6.149096)52:2.790088)100:0.50047,((Liotyphlops\_albirostris:1.188671,Typhlophis\_squamosus:4.925207)100:1.682891,((((Rhinoleptus\_koniagui:3.872932,((Trilepida\_macrolepis:5.736544,(Rena\_humilis:2.686746,(Rena\_sp:4.941553,(Rena\_dissecta:3.813885,Rena\_dulcis:2.011336)88:3.053328)99:3.849972)100:2.037216)100:2.089308,((Siagonodon\_septemstriatus:3.448174,(Epictia\_tenella:3.426039,(Epictia\_goudotii:4.127401,(Epictia\_columbi:1.10055,Epictia\_magnamaculata:4.117433)100:1.084492)99:2.202411)100:2.198589)97:2.276846,((Tetracheilostoma\_breuili:4.549626,Tetracheilostoma\_carlae:4.551041)100:5.222156,(Mitophis\_sp:3.07311,(Mitophis\_asbolepis:1.971187,(Mitophis\_pyrites:1.971346,Mitophis\_leptipileptus:1.966206)83:1.94508)97:3.062481)99:3.077127)100:3.084231)63:2.53384)77:1.14724)94:1.155244,((Myriopholis\_longicauda:3.172332,(Myriopholis\_algeriensis:3.481419,((Myriopholis\_boueti:3.938044,Myriopholis\_rouxestevae:3.086979)100:3.094065,(Myriopholis\_blanfordi:3.124884,(Myriopholis\_macrorhyncha:1.977333,Myriopholis\_adleri:1.975205)100:3.082713)98:3.057281)94:3.052145)71:3.061607)100:3.100175,(Namibiana\_occidentalis:3.168181,((Leptotyphlops\_pitmani:4.912898,(Leptotyphlops\_merkeri:4.914886,(Leptotyphlops\_sp:3.433344,Leptotyphlops\_nigroterminus:1.980476)0:3.04769)98:3.055604)98:3.057313,(Leptotyphlops\_kafubi:3.752066,((Leptotyphlops\_distanti:1.975224,Leptotyphlops\_scutifrons:4.600781)96:1.935371,(Leptotyphlops\_nigricans:4.603959,(Leptotyphlops\_conjunctus:1.974177,Leptotyphlops\_sylvicolus:1.976593)28:1.932949)100:1.937425)94:3.060492)21:3.058204)100:3.074393)100:3.074112)100:3.783384)100:1.360029,((Gerrhopilus\_mirus:3.1646,Gerrhopilus\_hedraeus:4.57475)48:3.94143,((Xenotyphlops\_sp:4.707999,Xenotyphlops\_grandidieri:2.13257)100:3.663174,(((Amerotyphlops\_reticulatus:4.06018,(Amerotyphlops\_tasymicris:5.730075,Amerotyphlops\_brongersmianus:4.048969)3:5.156031)99:4.558681,((Typhlops\_caymanensis:4.959652,(Typhlops\_arator:3.008513,((Typhlops\_perimychus:3.496412,Typhlops\_anousius:3.496141)100:3.554378,(Typhlops\_anchaurus:3.261305,(Typhlops\_contorhinus:3.006443,(Typhlops\_biminiensis:4.084394,Typhlops\_notorachius:2.850166)91:2.805986)0:2.808779)97:2.804331)96:2.817647)99:3.928302)100:3.424119,((((Typhlops\_geotomus:4.350709,Typhlops\_monastus:3.509825)100:3.463855,(Typhlops\_dominicanus:3.514866,Typhlops\_guadeloupensis:4.34467)97:3.452721)100:3.756952,(Typhlops\_granti:4.016143,(Typhlops\_catapontus:3.186497,(Typhlops\_hypomethes:3.801508,(Typhlops\_richardi:3.165887,(Typhlops\_platycephalus:2.818946,Typhlops\_naugus:4.618275)69:2.797649)100:2.802487)85:2.807047)99:2.816884)96:2.845325)98:3.168801,((Typhlops\_syntherus:3.216605,(Typhlops\_sulcatus:3.2165,((Typhlops\_agoralionis:2.894383,(Typhlops\_hectus:3.506656,Typhlops\_sylleptor:3.686366)99:2.829079)100:3.332033,(Typhlops\_capitulatus:3.208705,(Typhlops\_jamaicensis:0.06767,Typhlops\_rostellatus:3.200369)18:0.004489)7:0.00106)60:0.010484)60:0.00454)92:0.124827,(((Typhlops\_sp\_19:4.335745,(Typhlops\_sp\_20:4.31724,Typhlops\_pusillus:4.322655)97:4.394896)100:4.257859,(Typhlops\_sp\_16:4.348937,(Typhlops\_sp\_18:4.328195,Typhlops\_sp\_17:4.323635)92:4.272846)85:4.360337)100:4.325408,(Typhlops\_schwartzi:2.929695,((Typhlops\_eperopeus:2.864387,Typhlops\_titanops:4.435786)100:2.859805,(((Typhlops\_sp\_11:4.309763,Typhlops\_sp\_12:4.313536)99:4.264468,(Typhlops\_sp\_13:4.31615,(Typhlops\_sp\_14:4.296393,Typhlops\_sp\_15:4.303093)100:4.268308)99:4.252617)100:4.286206,((Typhlops\_sp\_8:4.442879,Typhlops\_sp\_9:4.314748)99:4.292986,((Typhlops\_sp\_2:4.29549,Typhlops\_sp\_1:4.294941)100:4.299389,(Typhlops\_sp\_6:4.346875,(Typhlops\_sp\_7:4.311203,(Typhlops\_sp\_5:3.674365,(Typhlops\_sp\_4:3.671354,Typhlops\_sp\_3:3.671532)98:3.626212)100:4.249421)98:4.268969)91:4.254465)100:3.187566)99:3.188584)98:4.254189)96:2.80386)100:2.826571)72:1.378983)100:0.022085)99:1.127297)100:1.370997)100:1.208727,((((Xerotyphlops\_vermicularis:2.885969,Xerotyphlops\_socotranus:4.30269)100:2.966358,(Argyrophis\_muelleri:3.007419,((Argyrhophis\_sp\_5:2.918106,Argyrophis\_diardii:2.917985)0:2.912266,(Argyrhophis\_sp\_1:2.935975,(Argyrhophis\_sp\_3:2.90826,(Argyrhophis\_sp\_4:2.898496,Argyrhophis\_sp\_2:2.898496)0:2.828587)0:2.885933)90:2.828308)0:1.760803)100:3.607408)88:2.932061,((Rhinotyphlops\_lalandei:3.291707,(Rhinotyphlops\_unitaeniata:3.905229,((Letheobia\_feae:2.895543,Letheobia\_newtoni:3.723717)100:3.175955,(Letheobia\_simonii:3.507797,Letheobia\_episcopus:3.875394)70:3.437786)91:2.855936)0:2.813638)91:2.910571,(Afrotyphlops\_obtusus:4.213424,((Afrotyphlops\_sp\_1:2.926057,(Afrotyphlops\_sp\_2:2.887177,(Afrotyphlops\_angolensis:2.874965,Afrotyphlops\_elegans:2.874539)0:2.826929)41:2.874576)100:3.275682,((Afrotyphlops\_muc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