aa Genus	HPZ-17	LPZ-16	HPZ-15	LPZ-14	HPZ-13	LPZ-12	HPZ-11	LPZ-10	HPZ-9	LPZ-8	HPZ-7	LPZ-6	HPZ-5	LPZ-4	HPZ-3	LPZ-2	HPZ-1
Aachenaspis									1.00								
Abajudon	0.82	0.18															
Abdalodon	1																
Abyssomedon		1.00															
Acandylacanthus		1.00															
Acanthocordylodus												0.12	0.86	0.02			
Acanthodes								1.00									
Acanthodina												0.12	0.86	0.02			
Acanthodus														0.30	0.70		
Acanthorhachis		0.14	0.86														
Acanthostega							1.00										
Acanthostomatops		1.00															
Acentrophorus		1.00															
Acerosodontosaurus	1																
Acheloma		1.00															
Acherontiscus			0.15	0.86													
Achoania								0.68	0.32								
Acleistorhinus		1.00															
Acmoniodus							1.00										
Acodina														0.30	0.70		
Acodus																1.00	
Acrodenta	1																
Acrodus		1.00															
Acrolepis						0.80	0.20										
Acropholis	1																
Acroplous		1.00															
Actinodon		1.00															
Actinolepis								1.00									
Actiobates		1.00															
Adamanterpeton		1.00															
Adamantina						0.80	0.20										
Adelargo							1.00										
Adelogyrinus					1.00												
Adelosaurus	1																
Adelospondylus		0.15	0.86														
Adenoderma		1.00															
Admetophoneus?	0.57	0.43															
Adololopas							1.00										
Aeduella		1.00															
Aedulla		1.00															
Aelurognathus	1																
Aelurosaurus	0.59	0.41															
Aenigmastropheus	1																
Aerosaurus		1.00															
Aesopichthys			0.15	0.86													

Aethaspis								0.68	0.32								
Aethotaxis				0.82	0.18												
Aficanaspis							1.00										
Agassizodus		1.00															
Ageleodus							1.00										
Akidnognathus	1																
Alainaspis									1.00								
Albiconus															1.00		
Aldridgeodus										1.00							
Alegeinosaurus		1.00															
Alepognathus	1																
Aletrimyti		1.00															
Alierasaurus		1.00															
Alilepis		1.00															
Allenypterus			0.15	0.86													
Allocryptaspis								0.77	0.23								
Alopecideops	1																
Alopecodon	1																
Alopecognathus	1																
Alopecorhinus	1																
Aloposaurus	1																
Alrausuchus	0.29	0.71															
Altenglanerpeton		1.00															
Alternognathus							1.00										
Althaspis								0.68	0.32								
Alveusdectes	1																
Amadeodipterus							0.05	0.96									
Ambedus		1.00															
Amblypterina	0.57	0.43															
Amblypterus		1.00															
Americaspis									1.00								
Amorphognathus														1.00			
Amphibamus		1.00															
Amphisauropus		1.00															
Amydrotaxis									1.00								
Anaclitacanthus						1.00											
Anakamacops		1.00															
Anarthraspis								1.00									
Anatolepis														1.00			
Ancistriodus	1																
Anconastes		1.00															
Ancoradella										1.00							
Ancyrodella							1.00										
Ancyrodelloides								0.68	0.32								
Ancyrognathus							1.00										
Ancyrolepis							1.00										
Andreolepis									1.00								

Angaraspis								1.00									
Angatubichthys	1																
Angelosaurus		1.00															
Anglaspis								0.68	0.32								
Angulodus							0.16	0.84									
Anisodexis		1.00															
anjiaspis											1.00						
Annatherapsidus	1																
Anningia	1																
Anodontacanthus		1.00															
Anomocephalus	0.57	0.43															
Anoplosuchus	0.57	0.43															
Ansella														1.00			
Anteosaurus	1																
Anthichnium	0.95	0.05															
Anthodon	1																
Anthracodromeus		1.00															
Anthracosaurus		0.14	0.86														
Anticostiodus											1.00						
antiquisagittaspis								1.00									
Antlerpeton					0.42	0.58											
Antliodus						1.00											
Antognathus							1.00										
Aornerpeton		1.00															
Apateacanthus							1.00										
Apatella							1.00										
Apateon		1.00															
Apatognathus							1.00										
Apatorhynchus							1.00										
Apedolepis														1.00			
Aphelognathus													0.96	0.04			
Aphelosaurus		1.00															
Aporemaspis								0.68	0.32								
Appalachignathus												0.12	0.86	0.02			
Apsidognathus											1.00						
Apsisaurus		1.00															
Arachana	1																
Araeoscelis		1.00															
Arandaspis														1.00			
Arauzia								0.04	0.96								
Archaeognathus													0.95	0.05			
Archaeosyodon	0.73	0.27															
Archaeothyris		1.00															
Archaeovenator		1.00															
Archegonaspis									1.00								
Archegosaurus		1.00															
Archeognathus														1.00			

Archeria		1.00															
Archerpeton		0.14	0.86														
Archipelepis											1.00						
Archosaurus	1																
Arctacanthus	1																
Arctognathus	1																
Arctonema							0.16	0.84									
Arctops	1																
Arenipiscis								1.00									
Areyonga														1.00			
Arganaceras	1																
Ariaspis										1.00							
Ariekanerpeton		1.00															
Arizonerpeton		0.14	0.86														
Arkanserpeton		1.00															
Arpagodus		1.00															
arquatichthys								1.00									
Artiodus		1.00															
Asaphestera		0.14	0.86														
Ascendonanus		1.00															
Aserotaspis								0.68	0.32								
asiacanthus								1.00									
Asiaspis								0.68	0.32								
Asketaspis										1.00							
Aspeluindia spl											1.00						
Aspelundia spl												1.00					
Aspidichthys							1.00										
Aspidosaurus		1.00															
Aspidosteus							1.00										
Asteracanthus	1																
Asterolepis							0.16	0.84									
Asterosteus							0.16	0.84									
Astraspis												0.12	0.86	0.02			
Astreptorhachis		1.00															
Astropentagnathus											1.00						
Atelaspis										1.00							
Athenaegis											1.00						
Atherstonia	1																
Atlantidosteus								1.00									
Atopacanthus							1.00										
Attenosaurus		0.73	0.27														
Auchenaspis										1.00							
Aulacephalodon	1																
Aulacocephalus	1																
Aulacognathus											1.00						
Aulocephalus	1																
Aurilobodus													0.20	0.80			

Australerpeton	0.89	0.11															
Australobarbarus	1																
Australolepis							1.00										
Australosomus	1																
Australosyodon	0.57	0.43															
Australothyris	1																
Avenantia	1																
Aversor		1.00															
Avignathus							1.00										
Aytonerpeton						0.80	0.20										
Bactrognathus						1.00											
Baeotherates		1.00															
Bageherpeton	0.59	0.41															
Balanerpeton				0.40	0.60												
Baldwinonus		1.00															
Baltoniodus														1.00			
Bandringa		1.00															
Baoqingichthys	1																
Baphetes			0.51	0.49													
Barameda						0.80	0.20										
Barasaurus	1																
Barbclabornia		1.00															
Barwickia							1.00										
Bashkirosaurus	0.73	0.27															
Bashkyroleter	0.29	0.71															
Basilodon	1																
Batacanthus		1.00															
Bathyglyptus		1.00															
Bathygnathus		1.00															
Batrachiderpeton			1.00														
Batropetes		1.00															
Beagiascus			0.15	0.86													
Bebhacanthus		1.00															
Belantsea			0.15	0.86													
Belebey		1.00															
Belemnacanthus							0.56	0.44									
Belodella														1.00			
Belodina														1.00			
Belosteus							1.00										
Benneviaspis								0.68	0.32								
Bergstroemognathus														0.50	0.50		
Besselodus													1.00				
Bethacanthus		1.00															
Biarmica		1.00															
Biarmosuchoides	0.73	0.27															
Biarmosuchus		1.00															
Birkenia										0.38	0.63						

Birksfeldia												0.49	0.51				
Biseridens		1.00															
Bispathodus							1.00										
Blattoidealestes	1																
Blieckaspis							0.16	0.84									
Bobbodus		1.00															
bohemicus								1.00									
Boii		1.00															
Boliosteus							0.56	0.44									
Bolosaurus		1.00															
Bolterpeton		1.00															
Boothaspis									1.00								
Boreania								0.68	0.32								
Boreolepis	1																
Bothriceps	1																
Bothriolepis							1.00										
Bourbonnella			0.51	0.49													
Brachipteraspis								1.00									
Brachydectes		1.00															
Brachydegma		1.00															
Brachydeirus							1.00										
Brachyosteus							1.00										
Brachypareion						0.80	0.20										
Brachyprosopus	0.82	0.18															
Bradysaurus	1																
Branchierpeton		1.00															
Branchiosaurus		1.00															
Branmehlia							1.00										
Bransonella						0.80	0.20										
Braunosteus							1.00										
Brazilichthys		1.00															
Brazilosaurus		1.00															
Breizosteus								1.00									
Brevidorsum		1.00															
brevipetalichthys								1.00									
Brindabellaspis								1.00									
Brithopus	0.57	0.43															
Broiliellus		1.00															
Brontopus	1																
Broomia	1																
Broomicephalus	1																
Broomisaurus	1																
Brouffia		1.00															
Bruktererpeton		0.14	0.86														
Bruntonichthys							1.00										
Bryantodina														1.00			
Bryantolepis								1.00									

Buchanosteus								0.04	0.96								
Bulbasaurus	1																
Bulbocanthus								1.00									
Bullacephalus	0.82	0.18															
Bullerichthys							1.00										
Bungartius							1.00										
Bunostegos	1																
Burbonella		1.00															
Burnetia	1																
Burrinijucosteus								1.00									
Buzulukia	1																
Bystrowiana	1																
Bythiacanthus		1.00															
Cacops		1.00															
Caenodontus	0.18	0.82															
Caerorhachis			0.15	0.86													
Cahabagnathus													0.20	0.80			
Callibrachion		1.00															
Calligenethlon		0.14	0.86														
Callognathus							1.00										
Cambrooistodus															1.00		
Campbellodus							1.00										
Campodus		1.00															
Campyloprion		1.00															
Camuropiscis							1.00										
Canadapteraspis								0.68	0.32								
Canningius							0.56	0.44									
Canobius						1.00											
Canonia								0.68	0.32								
Capetus		1.00															
Capricornognathus						1.00											
Captorhinikos		1.00															
Captorhinoides		1.00															
Captorhinus		1.00															
Carbonoherpeton		1.00															
Carcharopsis				0.40	0.60												
Cardiocephalus		1.00															
Cardipeltis								0.68	0.32								
Caridosuctor			0.15	0.86													
Carniodus												0.50	0.50				
Carrolla		1.00															
Casea		1.00															
Caseodus		1.00															
Caseoides		1.00															
Caseopsis		1.00															
Casineria					0.44	0.55											
Cassidiceps								0.68	0.32								

Cathlorhynchus								1.00									
Caturus	1																
Caudicriodus								0.68	0.32								
Cavusgnathus						0.80	0.20										
Cephalerpeton		1.00															
Cephalocustroidus	1																
Cerdodon	0.59	0.41															
Cerdorhinus	1																
Cerdosuchus	1																
Cervifurca		1.00															
Chagrinia							1.00										
Chalcosaurus	0.73	0.27															
Chamasaurus		1.00															
changolepis								1.00									
Changxingaspis											1.00						
Changxingia	1																
Changxingselache	1																
Changyanophyton							1.00										
Characichnos	1																
Charassognathus	1																
Charleuxia		1.00															
Cheiracanthoides								1.00									
Cheirodopsis						1.00											
Cheirolepis							1.00										
Chelichnus		1.00															
Cheliderpeton		1.00															
Chelydontops	1																
Chelydosaurus		1.00															
Chenoprosopus		1.00															
Chiastodus		1.00															
Chilonyx		1.00															
chirodiptereus							1.00										
Chirodipterus							1.00										
Chirognathus														1.00			
Choerosaurus	0.59	0.41															
Chomatodus						1.00											
Chondrenchelys						1.00											
Chosonodina														0.30	0.70		
Chroniosaurus	1																
Chroniosuchus	0.57	0.43															
Chrysolepis							1.00										
Chthomaloporus	0.73	0.27															
Chthonosaurus	1																
Chuanbeiolepis								1.00									
Chuchinolepis								0.04	0.96								
Cincosaurus		0.73	0.27														
Cistecephaloides	1																

Cistecephalus	1																
Cladodus					0.17	0.83											
Cladoselache							1.00										
Cladoselache							1.00										
Clamorosaurus		1.00															
clarkeosteus							1.00										
Clarkina	1																
clarorbis								1.00									
Claudiosaurus	1																
Clavohamulus															1.00		
Clelandina	1																
Clepsydrops		1.00															
Climatius									1.00								
Cloghergnathus						1.00											
Clydagnathus							1.00										
Clydonaspis								1.00									
Cobelodus		1.00															
Coccocephalichthys				0.92	0.09												
Coccosteus								1.00									
Cochleosaurus		1.00															
Cochliodus						1.00											
Coelacanthopsis					1.00												
Coelacanthus			0.51	0.49													
Coelocerodontus															1.00		
Coelostegus		1.00															
Coelurosauravus	1																
Colaptoconus														0.21	0.79		
Coleodus														1.00			
Collidosuchus	0.73	0.27															
Colobodectes	1																
Colobomycter		1.00															
Coloraderpeton		1.00															
Colosteus		1.00															
Cometicercus								0.68	0.32								
Complexodus													1.00				
Compsodon	1																
Conchodus							1.00										
Concordia		1.00															
Conjunctio		1.00															
Cooleyella					0.42	0.58											
Cooperodon		1.00															
Copanognathus							1.00										
Cordylodus															1.00		
Cornuboniscus						0.80	0.20										
Cornuodus														0.30	0.70		
Coronodus							1.00										
Corvaspis									1.00								

Corveolepis								0.68	0.32								
Coryssognathus											1.00						
Cosmaspis								0.68	0.32								
Cosmoptychius						0.80	0.20										
Costiconus														1.00			
Cotylorhynchus		1.00															
Cowielepis								0.68	0.32								
Crapartinella	1																
Crassidonta		1.00															
Crassigyrinus				0.40	0.60												
Cratoselache						1.00											
Cricotillus		1.00															
Cricotus		1.00															
Crinodon		1.00															
Criocephalosaurus	1																
Criocephalus	1																
Cristodus														0.30	0.70		
Crossotelos		1.00															
Cryptocynodon	1																
Cryptolepis							1.00										
Cryptotaxis							1.00										
Cryptovenator		1.00															
Ctenacanthus							0.05	0.96									
Ctenaspis								0.68	0.32								
Ctenerpeton		0.73	0.27														
Cteniosaurus	1																
Ctenodus						0.80	0.20										
Ctenognathodus										1.00							
Ctenopleuron									1.00								
Ctenorhachis		1.00															
Ctenospondylus		1.00															
Ctenurella							1.00										
Culumbodina												0.12	0.86	0.02			
Cuneognathus							1.00										
Curtognathus													0.22	0.78			
Cutleria		1.00															
Cyathaspis										1.00							
Cyclodiscaspis								1.00									
Cycloptychius						1.00											
Cymatorhiza	0.29	0.71															
Cynariognathus	1																
Cyniscops	1																
Cynopodius					0.44	0.56											
Cynosaurus	1																
Cyonosaurus	1																
Cyranorhis			0.15	0.86													
Cyrtonodus		1.00															

Cyrtosteus							1.00										
Dabasacanthus		1.00															
Dalongkoua	1																
Damaspis								0.04	0.96								
Damocles			0.15	0.86													
Danaea		1.00															
dangdoouichthys								1.00									
Dapsilodus														0.65	0.35		
Daptocephalus	1																
Daqingshanodon	1																
Darmuthia									1.00								
Dasyceps		1.00															
Dasytodus																	
Datheosaurus		1.00															
Davletkulia	0.73	0.27															
Dawsonerpeton		1.00															
dayoashania								1.00									
Dayongaspis											1.00						
Debeerius			0.15	0.86													
Decazella		1.00															
Declinognathodus			0.51	0.49													
Decoriconus														0.65	0.35		
Deirosteus							0.16	0.84									
Delectosaurus	1																
Delorhynchus		1.00															
Delotaxis											1.00						
Delphinognathus	1																
Delphyodontos			0.15	0.86													
Deltaherpeton					0.44	0.56											
Deltavjatia	1																
Deltodus						1.00											
Deltoptychius						1.00											
Denaea						1.00											
Dendrerpeton		0.14	0.86														
Dendrysekos		0.14	0.86														
Denisonodus							1.00										
Densignathus							1.00										
Dentacodina											1.00						
Desmatodon		1.00															
Desmiodus		1.00															
Desmoporella							0.16	0.84									
Deuterosaurus	0.73	0.27															
Deveonema							1.00										
Devononchus							1.00										
Devonosteus							0.56	0.44									
Diablodontus		1.00															
Diabloroter		1.00															

Diabolepis								0.68	0.32								
Diadectes		1.00															
Diadelognathus											1.00						
Diademodus							1.00										
Dialipina								1.00									
Diandongaspis								0.04	0.96								
Diandongpetalichthys								0.04	0.96								
Diasparactus		1.00															
Diceratosaurus		1.00															
Dichodella												1.00					
Dictybolos		1.00															
Dictyorhabdus												0.12	0.86	0.02			
Dicynodon	1																
Dicynodontipus	1																
Dicynodontoides	1																
Digalodon	1																
Diictodon	0.59	0.41															
Diictodontoides	1																
Dimacrodon		1.00															
Dimetrodon		1.00															
Dimetropus		1.00															
Dinanomodon	1																
Dinaspidella								0.68	0.32								
Dinichthys							1.00										
Dinodus							1.00										
Dinogorgon	1																
Dinomylostoma							1.00										
Dinosaurus	0.73	0.27															
Diplacanthus							1.00										
Diplocaulus		1.00															
Diploceraspis		1.00															
Diplocercides							1.00										
Diplododella														1.00			
Diplognathodus		1.00															
Diplognathus							1.00										
diplohollcaspis								1.00									
Diploradus						0.80	0.20										
Diplovertebron		1.00															
Dipnorhynchus								1.00									
Dipnotuberculus							1.00										
Dipterus							1.00										
Dischidognathus														1.00			
Discordichthys	0.57	0.43															
Discosauriscus		1.00															
Dissorophus		1.00															
Distacodus														0.30	0.70		
Distomodus														0.30	0.70		

Dittodus							1.00										
Dobrowlania								1.00									
Doleserpeton		1.00															
Dolichopareias					1.00												
Dolichosoma		0.14	0.86														
Doliodus									1.00								
Doliognathus						1.00											
Dollymae						0.42	0.59										
Dongfangaspis								0.04	0.96								
dongshanodus							0.47	0.53									
Doragnathus				0.40	0.60												
Dorypterus	1																
Drepanaspis								1.00									
Drepanodus															1.00		
Drepanoistodus															1.00		
Drepanolepis								0.68	0.32								
Driveria		1.00															
Dromotectum	1																
Drydenius						0.80	0.20										
Ductilodon		1.00															
Dunkleosteus							1.00										
duyunolepis								1.00									
Dvellecanus		1.00															
Dvinia	1																
Dvinosaurus	0.73	0.27															
Dvorakia									1.00								
Dwykia					0.42	0.58											
Eastmanosteus							1.00										
Ebenaqua	1																
Eccasaurus?	1																
Echinerpeton		1.00															
Echinochimaera	1																
Ecolsonia		1.00															
Ectosteorhachis		1.00															
Eczematolepis							0.16	0.84									
Edaphaspis								1.00									
Edaphosaurus		1.00															
Edestus			0.51	0.49													
Edops		1.00															
Eglonaspis								1.00									
Eimerisaurus		1.00															
Eldeceeon					1.00												
Eldenosteus							1.00										
Elegestolepis											1.00						
Elfridia		0.14	0.86														
Elginerpeton							1.00										
Elginia	1																

Elliotsmithia	1																
Ellisonia	1																
Ellopetalichthys							1.00										
Elonichthys						1.00											
Elph	1																
Elpistostege							1.00										
Elsonella							1.00										
Embaysgnathus						1.00											
Embrithosaurus	1																
Emeroleter	1																
Empedaspis								1.00									
Emydochampsa	1																
Emydops	0.59	0.41															
Emydorhinus	1																
Emydorhynchus	1																
Emyduranus	1																
Endothiodon	1																
Ennatosaurus	0.29	0.71															
Enosuchus	0.95	0.05															
Enseosteus							1.00										
Eoarctops	1																
Eobaphetes			1.00														
Eocarniodus													1.00				
Eocasea		1.00															
Eoconodontus															1.00		
Eodicynodon	0.57	0.43															
Eognathodus								0.68	0.32								
Eogyrinus			1.00														
Eoherpeton			0.15	0.86													
Eoneoprioniodus													0.22	0.78			
Eoorodus							1.00										
Eoplacognathus														1.00			
Eorasaurus	1																
Eosaurus			1.00														
Eoscopus		1.00															
Eosimops	1																
Eotaphrus						0.80	0.20										
Eothyris		1.00															
Eotitanosuchus	0.57	0.43															
Epipetalichthys							1.00										
Erika									1.00								
Erikia								1.00									
Erikodus	1																
Eriphostoma	1																
Eriptychius												0.12	0.86	0.02			
Erismacanthus						0.82	0.18										
Erismodus														1.00			

Erpetonyx		1.00															
Erpetopus		1.00															
Erpetosaurus		1.00															
Erraticodon														1.00			
Errivaspis								1.00									
Errolosteus								1.00									
Erromenosteus							1.00										
Eryops		1.00															
Eskimaspis								1.00									
Estemmenosuchus	0.73	0.27															
Euchambersia	1																
Eucharodus														0.21	0.79		
Euconcordia		1.00															
Eucritta					1.00												
Euctenius		1.00															
Eudibamus		1.00															
Eugaleaspis											1.00						
Eugeneodus		1.00															
Euglossodus					1.00												
Eugyrinus		0.14	0.86														
Eumicrerpeton		1.00															
Eunotosaurus	1																
Euphanerops							1.00										
Euporosteus							1.00										
Euprioniodina		1.00															
Euptychognathus	1																
Euromycter		1.00															
Europrotaspis								0.68	0.32								
Eurycaraspis								1.00									
Eurylepidoides		1.00															
Eurynotoides	0.73	0.27															
Euryodus		1.00															
Eurysomus	0.57	0.43															
Eusauropleura		1.00															
Eusthenopteron							1.00										
Evencodus														1.00			
Exochognathus											1.00						
Exutaspis								1.00									
Fadenia		1.00															
Fahraeosodus														1.00			
Falcatus			0.15	0.86													
Fallacosteus							1.00										
Fayella	0.29	0.71															
Fedexia		1.00															
Feeserpeton		1.00															
Fieldingaspis								0.04	0.96								
Fissodus		1.00															

Flajsella								0.68	0.32								
Fleurantia							1.00										
Fortscottella		1.00															
Fortunodon	1																
Frederichthys			0.15	0.86													
Fryxellodontus															1.00		
Fungulodus							1.00										
Furcacauda								0.68	0.32								
Furnishina																	1.00
Galechirus	1																
Galeops	1																
Galepus	1																
Galerodus											1.00						
Galesphyrus	1																
Galesuchus	1																
Gamachignathus												0.42	0.57	0.01			
Ganasauripus	1																
Gannanichthys							1.00										
Ganorhynchus							1.00										
gansuichthys								0.04	0.96								
Gansurhinus		1.00															
Gansuselache	1																
gantarostrataspis								1.00									
Gardinerichthys	0.95	0.05															
gavinaspis								1.00									
Gavinia							1.00										
Gecatogomphius		1.00															
Geikia	1																
Gemuendenaspis								1.00									
Gemuendina								1.00									
Gemuendolepis								1.00									
Geniculatus						1.00											
Georgenthalia		1.00															
Gephyrostegus		1.00															
Geraspis											1.00						
Gerobatrachus		1.00															
Geryonichthys	0.95	0.05															
Gigantaspis								1.00									
Gilliodus		1.00															
Glanochthon		1.00															
Glanosuchus	0.57	0.43															
Glaucosaurus		1.00															
Glaukerpeton		1.00															
Glaurung	1																
Glikmanius		1.00															
Glyphanodus					1.00												
Glyptaspis							1.00										

Glyptoconus														0.59	0.41		
Glyptolepis							1.00										
Glyptopomus							1.00										
Gnathodus												0.42	0.58				
Gnathorhiza		0.14	0.86														
Gnorhimosuchus		1.00															
Gomphacanthus									1.00								
Gomphodus									1.00								
Gomphonchus									1.00								
Gonatodus						0.80	0.20										
Gondolella		1.00															
Gondwanodus		1.00															
Gondwanosaurus	1																
Goniocephalus		1.00															
Goniosteus							0.16	0.84									
Goniporus									1.00								
Goodradigbeeon								1.00									
Goodrichthys						1.00											
Gordonia	1																
Gorgodon		1.00															
Gorgonichthys							1.00										
Gorgonops	1																
Gorochovetzia	1																
Gorynychus	1																
grammaspis								1.00									
Granatodontus															1.00		
Grandfieldia		1.00															
Grazosteus							0.56	0.44									
Greererpeton				0.92	0.09												
Griphognathus							1.00										
Groenlandaspis							1.00										
Grossaspis							1.00										
gualepis								1.00									
Guiyu									1.00								
gumuaspis								1.00									
Gunterichthys			0.51	0.49													
Gutturensis			0.15	0.86													
Gymnotrachelus							1.00										
Gyracanthus								1.00									
Gyrolepis			0.51	0.49													
Gyroplacosteus							1.00										
Gyroptychius								1.00									
Hadrognathus											1.00						
Hadronector			0.15	0.86													
Hadrosteus							1.00										
Haikouichthys																	1.00
Hamarodus												0.12	0.86	0.02			

Hamatus	1																
Hamiltonichthys		1.00															
Hammondella		1.00															
Hamodus							0.56	0.44									
Hanilepis									1.00								
Hanyangaspis											1.00						
Haplacanthus							1.00										
Haplolepis		1.00															
Hapsidopareion		1.00															
Haptodus		1.00															
Hardistiella			0.15	0.86													
harpadodens							1.00										
Harpagofututor			0.15	0.86													
Harrytoombsia							1.00										
Heightingtonaspis								0.68	0.32								
heimenia								1.00									
Heintzichthys							1.00										
Helenolepis									1.00								
Heleosaurus	1																
Heleosuchus	1																
Helicampodus	1																
Helicoprion		1.00															
Helodopsis	0.57	0.43															
Hemicyclaspis									0.37	0.63							
Hemilistrona							1.00										
Hercynolepis								1.00									
Herpetichnus		1.00															
Herpetoskylax	1																
Hertzina																	1.00
Heslerodus			0.51	0.49													
Heteropetalus				0.82	0.18												
Heterosteus							1.00										
heteroyunnanolepis								0.04	0.96								
Hexacynodon	1																
Hibbardella												0.76	0.24				
Hindeodelloides						1.00											
Hindeodina							1.00										
Hindeodus						0.80	0.20										
Hipposaurus	1																
Hirsutodontus															1.00		
Hispidodontus															0.41	0.54	0.04
Histiodella														1.00			
Hofmeyria	1																
Hohsienolepis								1.00									
Holdenius							1.00										
Hollardosteus							1.00										
Holmesella				0.40	0.60												

Holodipterus							1.00										
Holonema							1.00										
Holopterygius							1.00										
Holoptychius							1.00										
Holoptychus							1.00										
Holurus						1.00											
Homacanthus						0.82	0.18										
Homalacanthus							1.00										
Homaspidella									1.00								
Homodontosaurus	1																
Hopleacanthus	1																
Hovasaurus	1																
Howidipterus							1.00										
huananaspis								1.00									
huaningichthys							1.00										
Huddlella										1.00							
Hunanohelicoprion		1.00															
hunanolepis								1.00									
Huskerpeton		1.00															
Hussakofia							1.00										
Hwanghocynodon	1																
Hyaenasuchus	1																
Hybocladodus						1.00											
Hybodus		1.00															
Hylerpeton		0.14	0.86														
Hyloidichnus	1																
Hylonomus		0.14	0.86														
Hyloplesion		1.00															
Hyneria							1.00										
Hynerpeton							1.00										
Hyperaspis								1.00									
Hypselohaptodus		1.00															
Ianthasaurus		1.00															
Ianthodon		1.00															
Iapetognathus															0.48	0.49	0.04
Iberolepis								0.04	0.96								
Iberospondylus		1.00															
Ichibengops	1																
Ichniotherium		1.00															
Ichnomylax								1.00									
Ichthyerpeton		0.14	0.86														
Ichthyostega							1.00										
Icriodella													0.96	0.04			
Icriodus									1.00								
Icriognathus											1.00						
Icticephalus	1																
Ictidochampsa	1																

Ictidognathus	1																
Ictidorhinus	1																
Ictidosaurus	0.57	0.43															
Ictidostoma	1																
Ictidosuchoides	1																
Ictidosuchops	1																
Ictidosuchus	1																
Idelesaurus	1																
Idelisaurus	1																
Idiognathodus				1.00													
Idiognathodus		0.14	0.86														
Idiognathoides			0.51	0.49													
Idioprioniodus						0.80	0.20										
Igornella		1.00															
Ilemoraspis							1.00										
Illiniichthys		1.00															
Incisoscutum							1.00										
Infernovenator		1.00															
Ingentidens		1.00															
Iniopera		1.00															
Iniopteryx		1.00															
Inioxyele		1.00															
Inostrancevia	1																
Intasuchus		1.00															
Interpresosaurus	1																
Iowadipterus							1.00										
Iranognathus	1																
Iratusaurus	0.73	0.27															
Irregulareaspis								0.68	0.32								
Irregulariaspis spl								0.68	0.32								
Isacrodus		1.00															
Isadia	0.95	0.05															
Isarcicella	1																
Ischnacanthus										1.00							
Isodectes		0.73	0.27														
Istorinus												1.00					
Itapyrodus		1.00															
Ivantosaurus	0.57	0.43															
Jagorina							1.00										
Jakubsonia							1.00										
Jamoytius										0.38	0.63						
Janassa			0.15	0.86													
Janusichnus	1																
Jarilinus	1																
Jiangxilepis							1.00										
Jimpohlia		1.00															
Jimusaria	1																

Jiuchengia								1.00									
Jiyuanitectum	1																
Johnognathus											1.00						
Jonkeria		1.00															
Juanognathus														0.60	0.40		
Julognathus	1																
Jumudontus														1.00			
Kadaliosaurus		1.00															
kadunglelepis								1.00									
Kahneria		1.00															
Kaibabvenator		1.00															
Kallidontus														0.30	0.70		
Kallostracon									1.00								
Kalpinolepis											1.00						
Kamacops	0.73	0.27															
Kamagnathus		1.00															
Kamagorgon		1.00															
Kanodus		1.00															
Karelosteus							1.00										
Karenites	1																
Kargalichthys		1.00															
Karpinskiosaurus	0.57	0.43															
Kashmirosaurus		1.00															
Kathemacanthus								0.68	0.32								
Katoporodus									1.00								
Katoporus									1.00								
Katumbia	1																
Kawalepis									1.00								
Kawalepsis									1.00								
Kawichthys		1.00															
Kawingasaurus	1																
Kazanichthys		1.00															
Kembawacela	1																
Kendrichthys							1.00										
Kenichthys							0.56	0.44									
Kenomagnathus		1.00															
Keraterpeton			0.51	0.49													
Keratocephalus	1																
Keyseria	1																
Khuffia	0.57	0.43															
Kiaeraspis								0.68	0.32								
Kiangsuaspis										1.00							
Kiangyousteus							1.00										
Kichkassia	0.57	0.43															
Kimaspis								0.04	0.96								
Kimberia							1.00										
Kimberleyichthyes							1.00										

Kimognathus								0.68	0.32								
Kinelia	0.57	0.43															
Kirkella		1.00															
Kirktonecta					1.00												
Kitchinganomodon	1																
Kladognathus						1.00											
Klapperina							1.00										
Knoxosaurus		1.00															
Kockelella												1.00					
Koilops						0.80	0.20										
Koinia		1.00															
Koinichthys	1																
Kolymaspis								1.00									
konoceraspis											1.00						
Konzhukovia	0.73	0.27															
Korutichthys	0.95	0.05															
Kosoraspis								0.68	0.32								
Kotelcephalon	1																
Kotlassia	1																
Kourerpeton		1.00															
kueichowlepis								1.00									
Kungurodus		1.00															
Kunpania	1																
kwangnanaspis								1.00									
Kwazulusaurus	1																
Kweichowlepis								1.00									
Kyrinion		0.73	0.27														
Labidosaurikos		1.00															
Labidosauriscus		1.00															
Labidosaurus		1.00															
Laccognathus							1.00										
Laccosaurus	1																
Lacertulus	1																
Lafonius		1.00															
Lagarodus			0.51	0.49													
Lambdodus						1.00											
Lampraspis								0.68	0.32								
Lanarkia											1.00						
Lanea								0.68	0.32								
Langlieria							1.00										
Lanthaniscus	0.29	0.71															
Lanthanolania	0.29	0.71															
Lanthanostegus	1																
Lanthanosuchus	0.95	0.05															
Lapkosubia	0.95	0.05															
Larnovaspis								0.68	0.32								
Larolepis												0.12	0.86	0.02			

Lasanius										1.00							
Latericriodus								0.68	0.32								
Laterignathus									1.00								
Latocamurus							1.00										
Latvius							1.00										
Laurentaspis								1.00									
Laurentoscandodus														0.21	0.79		
Lawnia		1.00															
Lawrenciella		1.00															
Laxaspis								0.04	0.96								
Leiocephalikon		0.14	0.86														
Leiodus						1.00											
Lemurosaurus	1																
Lende	1																
Lenodus														1.00			
Leogorgon	1																
Leonotus								0.04	0.96								
Leontocephalus	1																
Leontosaurus	1																
Lepadolepis							1.00										
Lepidaspis								0.68	0.32								
Lepidotosaurus	1																
Lepterpeton		0.14	0.86														
Leptochirognathus														1.00			
Leptophractus		1.00															
Leptoropha		1.00															
Leptorophus		1.00															
Leptosteus							1.00										
Lestrodus				1.00													
Lethiscus					0.22	0.78											
Leucocephalus	1																
Leutorhinion														0.59	0.41		
Ligonodina							1.00										
Ligulalepis									1.00								
lijiangichthys								1.00									
Liliaspis								0.68	0.32								
Limanichthys						0.80	0.20										
Limnerpeton		1.00															
Limnogyrinus		1.00															
Limnopus		1.00															
Limnoscelis		1.00															
Limnosceloides		1.00															
Limnoscelops		1.00															
Limnostygis		1.00															
Lineagruan			0.15	0.86													
Lissodus						0.80	0.20										
Listracanthus			0.15	0.86													

Litilpetalichthyes							0.16	0.84									
Liujiangolepis								1.00									
Livoniana							1.00										
Livosteus								1.00									
Llistrofus		1.00															
Lobalopex	1																
Lochmocercus			0.15	0.86													
Lochriea						0.80	0.20										
Loganellia											1.00						
Lonchodina											1.00						
Lonchodus													0.26	0.74			
lopadaspis								1.00									
Lophorhinus	1																
Lophosteus									1.00								
Loxodus															1.00		
Loxomma				0.40	0.60												
Luckeus							0.05	0.96									
Luederia		1.00															
Lunaepes	1																
Lunalepis								0.04	0.96								
Lunaspis								1.00									
Lundodus														1.00			
lungmenshanaspis								1.00									
Lupeosaurus		1.00															
Lupopsyrus								0.68	0.32								
Luquanolepis								1.00									
Lycaenodon	1																
Lycaenops	1																
Lycedops	1																
Lycideops	1																
Lycosaurus	1																
Lycosuchus	1																
Lydekkerina	1																
Lysipterygium		1.00															
Lysorophus			0.51	0.49													
Lystrosaurus	1																
Macerodus														0.21	0.79		
Machaeracanthus								1.00									
Macrerpeton		1.00															
Macrodontacanthus		1.00															
Macrodontophion							1.00										
Macroleter	0.29	0.71															
Macromerion		1.00															
Macromerium		1.00															
Macropetalichthys								1.00									
macrothyraspis								1.00									
Makowskia		1.00															

Malasaurus	1																
Malerosteus							1.00										
Manberodus							1.00										
Marsdenius				1.00													
Mastersonia		1.00															
Matthewichnus		0.73	0.27														
Mayomyzon		1.00															
Mazon Creek microsaur		1.00															
Mcmurdodus							0.16	0.84									
Mcnamaraspis							1.00										
meemannia								1.00									
Megactenopetalus		1.00															
Megalichthys						1.00											
Megalocephalus			0.51	0.49													
Megaloplax							1.00										
Megamolgophis		1.00															
Megapleuron		1.00															
Megapomus							1.00										
Megawhaitsia	1																
Mehlina							0.16	0.84									
Meishanaspis											1.00						
Meishanselache	1																
Melanerpeton		1.00															
Melanodus							1.00										
Melanosteus							1.00										
Melosaurus		1.00															
Menaspis	1																
Menonomenos		1.00															
Merifontichnus	1																
Merrillina	0.57	0.43															
Mesacanthus								0.77	0.23								
Mesanerpeton						0.80	0.20										
Mesenosaurus	0.29	0.71															
Mesodmodus						0.42	0.59										
Mesogondolella		1.00															
Mesopoma						1.00											
Mesosaurus		1.00															
Mesotaxis							1.00										
Mestognathus						0.80	0.20										
Metamosaurus		1.00															
Metaprioniodus							1.00										
Metaspriggina																	1.00
Metaxygnathus							1.00										
Micraroter		1.00															
Microbrachis		1.00															
Microbrachius								1.00									
microholonaspis								1.00									

Microleter		1.00															
Micromelerpeton		1.00															
Microphon	1																
microphymaspis											1.00						
Microsteus							1.00										
Microsyodon		1.00															
Microurania	0.95	0.05															
Microvaranops	1																
Microwhaitsia	1																
Microzarkodina														1.00			
Miguashaia							1.00										
Milleretta	1																
Millerinoides	1																
Milleropsis	1																
Millerosaurus	1																
Milnererpeton		1.00															
Milosaurus		1.00															
Miltaspis								1.00									
Mimia							1.00										
minicrania								0.04	0.96								
Mirotenthes	1																
Mitrellotaxis							1.00										
Mixoconus												0.12	0.86	0.02			
mizia								1.00									
Molgophis		1.00															
Molybdopygus	0.73	0.27															
mongolepis											1.00						
Monocladodus							1.00										
Monocostodus															0.56	0.43	
Monongahela		1.00															
Montcellia		1.00															
Moradisaurus	1																
Mordex		1.00															
Moreyella		1.00															
Mormosaurus	0.59	0.41															
Moschops	1																
Moschorhinus	1																
Moschowhaitsia	1																
Moythomasia							1.00										
Muchia	1																
Muchocephalus	1																
Muellerodus																	1.00
Muensterichthys	1																
Multidentodus		0.14	0.86														
Multioistodus														1.00			
Mupashi	1																
Muranjilepis							0.05	0.96									

Murmur								1.00									
Murrindalaspis								1.00									
Mutovinia	1																
Mycterosaurus		1.00															
Myllokunmingia																	1.00
Mylostoma							1.00										
Myosauroides	1																
Myxineidus		1.00															
Myxinikela		0.73	0.27														
Nahanniaspis									1.00								
Naimanodus													0.12	0.88			
Namaichthys		1.00															
Nanicticephalus	1																
Nanictidops	1																
Nanictocephalus	1																
Nanictosaurus	1																
nanjiangaspis											1.00						
Nannaroter		1.00															
Nannospondylus	0.29	0.71															
Nanocynodon	1																
Nanoparia	1																
Nanopus		0.73	0.27														
Nanoskalme		1.00															
Nanpanaspis								1.00									
Nasopus	1																
Nasusgnathus														1.00			
Naxilepis									1.00								
Neldasaurus		1.00															
Nemacanthus	0.57	0.43															
Nematoptychius						0.80	0.20										
Neocoleodus														1.00			
neoduyunaspis								1.00									
Neogondolella		1.00															
Neomultioistodus														0.65	0.35		
Neopanderodus								0.68	0.32								
Neopetalichthys								1.00									
Neopetalodus		1.00															
Neoprioniodus														1.00			
Neopteroplax		1.00															
Neosaivodus		1.00															
Neosaurus		1.00															
neosinacanthus											1.00						
Neospathodus	1																
Neostreptognathodus		1.00															
Nerepisacanthus									1.00								
Nericodus														0.59	0.41		
Nesides							1.00										

Nessariostoma								1.00									
Nethertonodus									1.00								
Netsepoye			0.15	0.86													
Niaftasuchus	0.29	0.71															
Niassodon	1																
Nicollidina									0.58	0.42							
Nigerpeton	1																
Nikkasaurus	0.29	0.71															
Nikolivia								0.68	0.32								
ningxialepis							1.00										
Niphosaurus	1																
Nitosaurus		1.00															
Niuksenitia	1																
Nochelaspis								0.04	0.96								
Nochelesaurus	1																
Nochnitsa	1																
Nodognathus						0.42	0.59										
Nodonchus								0.68	0.32								
Nogamiconus																	1.00
Noixodontus												1.00					
Nordiodus												1.00					
Nostolepis										1.00							
nostolepoides								0.68	0.32								
Notaelurodon	1																
Notalacerta		0.73	0.27														
Notopetalichthys								1.00									
Notosyodon	0.95	0.05															
Novascoticus		0.14	0.86														
Nozamichthys		1.00															
Nudibelodina											1.00						
Nummulosaurus		1.00															
Nycteroleter	0.29	0.71															
Nyctiboetus		1.00															
Nyctiphruretus	0.29	0.71															
Nyranerpeton		1.00															
Obirkovia	1																
Obliaspis								1.00									
Obruchevichthys							1.00										
Occidens						1.00											
Odonterpeton		1.00															
Odontocyclops	1																
Oedaleops		1.00															
Oelandodus														0.65	0.35		
Oepikodus														0.50	0.50		
Oeselaspis										1.00							
Oestocephalus			0.51	0.49													
Ohioaspis								1.00									

Ohiolepis								1.00									
Oistodella														1.00			
Oistodus														0.21	0.79		
Oligodus						0.42	0.59										
Omalodus							1.00										
Omanoselache	0.57	0.43															
Onchiodon		1.00															
Onchus									1.00								
Oneotodus																	1.00
Oniscina		1.00															
Onychichnium	1																
Onychodus							0.16	0.84									
Onychoselache						1.00											
Operchaliosteus							1.00										
Ophiacodon		1.00															
Ophiderpeton				0.40	0.60												
Ophidostoma	1																
Opisthodontosaurus		1.00															
Oradectes		1.00															
Oredezhosteus							1.00										
Orestiacanthus				0.82	0.18												
Ornithoprion		1.00															
Orobates		1.00															
Oromycter		1.00															
Orovenator		1.00															
Orthacanthus								1.00									
Orthocosta		1.00															
Orvikuina							0.16	0.84									
Oslodus														0.65	0.35		
Ossinodus					0.42	0.58											
Ossirarus						0.80	0.20										
Osteolepis							1.00										
Ostodolepis		1.00															
Otsheria	0.73	0.27															
Oudenodon	1																
Oulodus														1.00			
Overia										1.00							
Overtonaspis								1.00									
Owenetta	1																
Oxyosteus							1.00										
Ozarcodina									1.00								
Ozarcus			0.15	0.86													
Ozarkodina														1.00			
Pachydectes	1																
Pachyosteus							1.00										
Pachypes	1																
Pachytegos	1																

Palaeacanthaspis								1.00									
Palaeagama	1																
Palaeodus														1.00			
Palaeoherpeton		0.14	0.86														
Palaeomolgophis					0.26	0.74											
Palaeomylus								1.00									
Palaeoniscum		1.00															
Palaeoniscus		1.00															
Palaeophichthys		1.00															
Palatinerpeton		1.00															
Palemydops	1																
Paleothyris		1.00															
Palmatolepis							0.56	0.44									
Paltodus															1.00		
Pampaphoneus	0.82	0.18															
pampetalichthys								1.00									
Panamintaspis							0.16	0.84									
Panderichthys							1.00										
Panderodus														1.00			
Pandorinella								0.68	0.32								
Pandorinellina								0.68	0.32								
Pantylus		1.00															
Panxiosteus							1.00										
Papilionichthys			0.15	0.86													
Papposaurus				0.82	0.18												
Parabelodina												1.00					
Parabelosteus							1.00										
Parabradysaurus		1.00															
Parabuchanosteus								1.00									
Paraburnetia	1																
Paracordylodus														0.30	0.70		
Paracymatodus		1.00															
Paradoxichnium	1																
Paradrydenius						0.80	0.20										
paraduyunaspis								1.00									
Paragalerhinus	1																
Paragonatodus						0.80	0.20										
Parahelicampodus	1																
Parahelicoprion		1.00															
Paralepidotus	0.95	0.05															
Paralogania										1.00							
Paramblypterus		1.00															
Paramesolepis						1.00											
Paramicrobrachis		1.00															
Paramylostoma							1.00										
Paranaichthys	0.82	0.18															
Paranteosaurus	1																

Parapaltodus														1.00			
Parapanderodus														0.30	0.70		
Paraplesiobatis								1.00									
Paraprionodus														1.00			
Parapytanga	0.72	0.28															
Parasaurus	1																
Paraserratognathus														1.00			
Parasuminia	1																
Paratarrasius			0.15	0.86													
parathelodus								0.04	0.96								
Parathrinaxodon	1																
parawilliamsaspis								1.00									
Pardosuchus	1																
Pareiasaurus	1																
Pareiasuchus	1																
Pariotichus		1.00															
Parioxys		1.00															
Parmastega							1.00										
Paroistodus															1.00		
Parutahconus															0.48	0.49	0.04
Pasawioops		1.00															
Patranomodon	0.57	0.43															
Patrognathus						0.80	0.20										
Pavlovites		1.00															
Pedavis									1.00								
Pederpes						1.00											
peilepis								1.00									
Pelanomodon	1																
Pelaspis								1.00									
Pelekysgnathus									1.00								
Pelictosuchus	1																
Pelodosotis		1.00															
Peltobatrachus	1																
Pentathyraspis								0.04	0.96								
Peramodon	1																
Periodon														0.50	0.50		
Perittodus						0.80	0.20										
Permotriturus	0.95	0.05															
Perplexisaurus	0.95	0.05															
Perryella		1.00															
Persacanthus							1.00										
Persephonichthys		1.00															
Petalorhynchus			0.15	0.86													
Petrolacosaurus		1.00															
Pezopallichthys											1.00						
Phakelodus																	1.00
Phanerosaurus		1.00															

Phanerosteon						1.00											
Phialaspis										1.00							
Phlebolepis									1.00								
Phlegethontia		0.14	0.86														
Phocosaurus	1																
Phoebodus							1.00										
Pholiderpeton			0.26	0.69	0.05												
Pholidogaster					1.00												
Pholidosteus							1.00										
Phonerpeton		1.00															
Phragmodus													0.22	0.78			
Phratochronis		1.00															
Phratocronis	0.57	0.43															
Phreatophasma		1.00															
Phrynosuchus	1																
Phthinosaurus	0.73	0.27															
Phthinosuchus	0.57	0.43															
Phymolepis								1.00									
phymosteus							1.00										
Physonemus						0.82	0.18										
Pikaia																	1.00
Pillararhynchus							1.00										
Pilolepsis										1.00							
Pinacognathus						0.42	0.59										
Pinnalongus							0.16	0.84									
Pionaspis								0.68	0.32								
Pircanchaspis														1.00			
Planipes	1																
Plataspis								0.68	0.32								
Platyaspis							1.00										
platycaraspis											1.00						
Platycyclops	1																
Platyhystrix		1.00															
Platyoposaurus		1.00															
Platyrhinops		1.00															
Platysomus						1.00											
Platystegos		0.14	0.86														
Playfordia							1.00										
Plectodina														1.00			
Plectrodus								0.68	0.32								
Plegagnathus												0.12	0.86	0.02			
Plegmolepis	1																
Plemmyradytes		1.00															
Plesioselachus							1.00										
Pleuracanthus			0.51	0.49													
Pleurodus			0.51	0.49													
Pleuronoura		1.00															

Pleuroplax		1.00															
Pleuroptyx		1.00															
Plourdosteus							1.00										
Podolaspis								0.68	0.32								
Podoliacanthus								0.77	0.23								
Polonodus														1.00			
Polyacrodus		1.00															
Polybranchiaspis									1.00								
Polycostatus															0.48	0.49	0.04
Polycynodon	1																
Polygnathellus							1.00										
Polygnathoides											1.00						
Polygnathus								1.00									
Polylophodonta							1.00										
Polyosteorhynchus			0.15	0.86													
Polyplacognathus														1.00			
Polyrhizodus			0.15	0.86													
Polysentor		1.00															
Poracanthodes									1.00								
Poraspis								0.68	0.32								
Porierpeton		1.00															
Poriferaspis														1.00			
Porolepis								1.00									
Porophoraspis														1.00			
Porosteognathus	0.95	0.05															
Potamochoston		1.00															
Powichthys								1.00									
Pranognathus											1.00						
Prapetalichthys								1.00									
Prattognathus														1.00			
Pravognathus													1.00				
Pravoslavlevia	1																
Prescottaspis								1.00									
Prioniodina														1.00			
Prioniodus														0.30	0.70		
Prionosuchus		1.00															
Priscomyzon							1.00										
Pristerodon	1																
Pristerognathoides	1																
Pristerognathus	1																
Pristerosaurus	1																
Pristognathus												1.00					
Proacodus															0.41	0.54	0.04
Problematoconites															1.00		
Proburnetia	1																
Procephalaspis									1.00								
Proceramala			0.15	0.86													

Prochirotherium	1																
Procochleosaurus		0.14	0.86														
Procolophonichnium	1																
Proconodontus															1.00		
Procuhy		1.00															
Procynosuchus	1																
Prodicynodon	1																
Progyrolepis		1.00															
Promexyele		1.00															
Promissum												1.00					
Promoschorhynchus	1																
Prooneotodus																	1.00
Propelanomodon	1																
Prorubidgea	1																
Prosagittodontus																	1.00
Proscandodus																	1.00
Prosictodon	0.59	0.41															
Protacrodus							1.00										
Protamblyptera						0.80	0.20										
Protaspis								0.68	0.32								
Proterogyrinus			0.15	0.86													
Protocaptorhinus		1.00															
Protoclepsydrops		0.14	0.86														
Protodus								1.00									
Protognathodus							1.00										
Protogonacanthus							1.00										
Protopanderodus														0.30	0.70		
Protoprioniodus														0.30	0.70		
Protopteraspis								0.68	0.32								
Protorosaurus	1																
Protorothyris		1.00															
Provelosaurus	0.59	0.41															
Pruemolepis								0.04	0.96								
Psammodus						0.53	0.47										
Psammolepis							0.16	0.84									
Psammosteus							0.16	0.84									
Psarolepis									1.00								
Psephaspis								1.00									
Psephodus						1.00											
Pseudobelodella											1.00						
Pseudobelodina													0.26	0.74			
Pseudodontichthys							0.56	0.44									
Pseudoduyunaspis											1.00						
Pseudohindeodus		1.00															
Pseudolonchodina												1.00					
Pseudooneotodus														0.65	0.35		
Pseudopetalichthys								1.00									

Pseudophlegethontia		1.00															
Pseudopolygnathus							1.00										
Pseudosweetognathus		1.00															
Pteracontiodus														0.50	0.50		
Pteraspis														1.00			
Pterichthyodid								1.00									
pterogonaspis								1.00									
Pteroplax			1.00														
Pterospathodus											1.00						
Ptilognathus				0.92	0.09												
Ptomalestes	1																
Ptyctodopsis							1.00										
Ptyctodus							1.00										
Ptyonius		0.14	0.86														
Puertollanopus		1.00															
Pumiliopareia	1																
Purlovia	1																
Putoranaspis								0.68	0.32								
Pycnaspis													1.00				
Pycnosteus							0.16	0.84									
Pygodus														0.65	0.35		
Pygopterus	1																
Pyozia	0.29	0.71															
Qilinyu									1.00								
Qingmenaspis								1.00									
Qingmenodus								1.00									
qinlingichthys								1.00									
Quadropedia		0.73	0.27														
Quasicaecilia		1.00															
Quasipetalichthys								1.00									
Qujinolepis								0.68	0.32								
Rabeignathus		1.00															
Rachiosteus							1.00										
Radotina								0.68	0.32								
Rainerichthys			0.15	0.86													
Raphanodon	1																
Raranimus		1.00															
Rastodon	0.82	0.18															
Rautiania	1																
Raynerius							1.00										
Reesodus				0.29	0.55	0.15											
Reiszerpeton		1.00															
Reiszia	0.29	0.71															
Reiszorhinus		1.00															
remigolepis							1.00										
Reticulolepis	1																
Reutterodus														1.00			

Rexroadus												1.00					
Rhabdoderma					0.42	0.58											
Rhachiocephalus	1																
Rhachistognathus					1.00												
rhadinacanthus								1.00									
Rhadinichthys						0.53	0.47										
Rhenonema							1.00										
Rhineceps	1																
Rhinesuchoides	1																
Rhinesuchus	1																
Rhinodipterus							1.00										
Rhinopteraspis								1.00									
Rhinosteus							1.00										
Rhiodenticulatus		1.00															
Rhipaeosaurus	0.73	0.27															
Rhipidognathus												0.49	0.51				
Rhizodopsis		0.30	0.70														
Rhizodus				0.40	0.60												
Rhodalepus							1.00										
Rhodesognathus													0.20	0.80			
Rhopalodon	0.73	0.27															
Rhynchodus							1.00										
Rhynchognathodus											1.00						
Rhyncholepis										1.00							
Rhynchonkos		1.00															
Rhynchosauroides	1																
Riabininus		1.00															
Ricnodon		0.14	0.86														
Riebeeckosaurus	1																
Robertia	1																
Rolfosteus							1.00										
Romeria		1.00															
Romerodus		1.00															
Romundina								1.00									
Roslerichthys		1.00															
Rossodus															1.00		
Rotaryus		1.00															
Rothianiscus		1.00															
Rotundacodina								0.68	0.32								
Rotundoconus															0.41	0.56	0.03
Roundya														1.00			
Rubeostratilia		1.00															
Rubidgea	1																
Rubidgina	1																
Ruhucerberus	1																
Ruhuhucerberus	1																
Ruthenosaurus		1.00															

Ruthiromia		1.00															
Saaremaaspis										1.00							
Saarolepis									1.00								
Sacabambaspis													0.20	0.80			
Sagenodus		1.00															
Sagittodontina												0.50	0.50				
Sagittodontus															0.48	0.49	0.04
Saharastega	1																
Saivodus						0.82	0.18										
Samarichthys	0.57	0.43															
sanchaspis								1.00									
Sanchuansaurus	1																
Sandalodus						1.00											
Sandivia												0.12	0.86	0.02			
Sannemannia								1.00									
sanqiaspis								1.00									
Sarcoprion	1																
Sauravus		1.00															
Saurerpeton		1.00															
Saurichthys	1																
Sauroctonus	1																
Sauropleura		1.00															
Saurorictus	1																
Sauroscaptor	1																
Saurosternon	1																
Saxonerpeton		1.00															
Scabbardella														1.00			
Scaliognathus						1.00											
Scaliognathus						1.00											
Scalopocynodon	1																
Scalopodon	1																
Scalopodontes	1																
Scaloporhinus	1																
Scaloposaurus	1																
Scaloposuchus	1																
Scalpellodus														0.30	0.70		
Scandodus														0.30	0.70		
Scapanops		1.00															
Scaphignathus							1.00										
Scaumenacia							1.00										
Schaefferichthys		1.00															
Schizosteus							0.16	0.84									
Schmidtognathus							1.00										
Schoenfelderpeton		1.00															
Schopfodus													0.95	0.05			
Scincosaurus		1.00															
Sclerocephalus		1.00															

Sclerodus										1.00							
Scoliorhiza						1.00											
Scolopodus															1.00		
Scutosaurus	1																
Scylacognathus	1																
Scylacoides	1																
Scylacops	1																
Scylacosaurus	1																
Scylacosuchus	1																
Scymnosaurus	1																
Scyphiodus												0.12	0.86	0.02			
Secodontosaurus		1.00															
Seelya		1.00															
Selenosteus							1.00										
Semiacontiodus															1.00		
Serenichthys							1.00										
Seretaspis								0.68	0.32								
Serratocambria															0.41	0.54	0.04
Serratodus		1.00															
Serratognathoides														1.00			
Serratognathus														0.30	0.70		
Seymouria		1.00															
Shankouclava																	1.00
Shansisaurus	1																
Shearsbyaspis								1.00									
Shielia										1.00							
Shiguaignathus	1																
Shihtienfenia	1																
Shimenolepis											1.00						
Siamodus							1.00										
Siberiaspis								1.00									
Sibiriodus														1.00			
Sibyrhynchus		1.00															
Sigournea					0.44	0.56											
Siksika			0.15	0.86													
Sillerpeton		1.00															
Silphoictidoides	1																
Silurognathus									1.00								
Silurolepis									1.00								
Silvadectes		1.00															
Silvanerpeton				0.40	0.60												
Simblaspis								0.68	0.32								
Similihariotta		1.00															
Simmorius		1.00															
sinacanthus											1.00						
Sinacrodus	1																
Sinodipterus							0.16	0.84									

Sinogaleaspis											1.00						
Sinohelicoprion	1																
Sinolepis							1.00										
sinopetalichthys								1.00									
Sinophoneus		1.00															
Sinoplatysomus	1																
Sinostega							1.00										
sinoszechuanaspis								1.00									
Sintocephalus	1																
Siphonodella							1.00										
Siyingia								1.00									
Slaugenhopia		1.00															
Sludalepis	0.95	0.05															
Sludica	1																
Smilesaurus	1																
Soederberghia							1.00										
Solenodonsaurus		1.00															
Solenodus	0.57	0.43															
Sorbitorhynchus								1.00									
Sparagmites		1.00															
Sparodus		1.00															
Spathicephalus					0.42	0.58											
Spathognathodus												0.42	0.58				
Spenacodon		1.00															
Spermatodus		1.00															
Sphaerolepis		1.00															
Sphenacanthus							1.00										
Sphenacodon		1.00															
Sphenonectris								0.68	0.32								
Spinarerpeton		1.00															
Spinoaequalis		1.00															
Spinodus														1.00			
Spinofacia			0.51	0.49													
Spondylerpeton		1.00															
Spondylolestes	1																
Sponysedrion								1.00									
Squamatognathus							0.47	0.53									
Squatinactis			0.15	0.86													
Staufferella												0.12	0.86	0.02			
Staurognathus						1.00											
Stegops		1.00															
Stegotrachelus							1.00										
Stegotretus		1.00															
Steinaspis								0.68	0.32								
Stemmatias		1.00															
Stemmatodus		1.00															
Stenocybus	0.57	0.43															

Stenodontus															1.00		
Stenosteus							1.00										
Stensioella								1.00									
Stepanovites		1.00															
Stephanospondylus		1.00															
Stephaspis								0.04	0.96								
Steppesaurus		1.00															
Steptotaxis								1.00									
Stereoconus														1.00			
Stereophallodon		1.00															
Stereorhachis		1.00															
Stereosternum		1.00															
Stethacanthulus		1.00															
Stethacanthus							1.00										
Stolodus														1.00			
Stomiahykus							0.05	0.96									
Strachanognathus														1.00			
Strelnia	0.95	0.05															
Strepsodus						1.00											
Striatodontus													0.00	0.21	0.79		
Stroinolepis												0.12	0.86	0.02			
Strosipherus									1.00								
Strunius							0.56	0.44									
Struthiocephaloides	1																
Struthiocephalus	1																
Struthionops	1																
Stuertzaspis								1.00									
Stultodontus														0.30	0.70		
Styloichthys								1.00									
Styracocephalus	1																
Styracopterus						1.00											
Subbryantodus							1.00										
Subcyclotosaurus		1.00															
Subprioniodus		1.00															
Suchogorgon	1																
Suchonica	1																
Suchonosaurus	1																
Sukhonopus	0.95	0.05															
Suminia	1																
Surcaudalus	1																
Sweetina		1.00															
Sweetocristatus		1.00															
Sweetognathus		1.00															
Sycosaurus	1																
Symmorium							1.00										
Synaptotylus		1.00															
Synauchenia							1.00										

Synclydagnathus						1.00											
Syndyodosuchus		1.00															
Synechodus		1.00															
Synprioniodina													0.22	0.78			
Syodon		1.00															
Syops	1																
szelepis								0.04	0.96								
Taemasosteus								1.00									
Taeniolepis							1.00										
Tafilalichthys							1.00										
Tambacarnifex		1.00															
Tambachia		1.00															
Tambachichnium		1.00															
Tambaroter		1.00															
Tamboeria	1																
Tamiobatis							1.00										
Tangasaurus	1																
Tangshanodus														1.00			
Taoqupognathus												0.49	0.51				
Taphrognathus						1.00											
Tapinocaninus		1.00															
Tapinocephalus	1																
Tapinosteus							1.00										
Tappenosaurus		1.00															
Tarachomylax								1.00									
tareyacanthus								1.00									
Tareyaspis								0.68	0.32								
Tarrasius						1.00											
Tartuosteus							0.16	0.84									
Tasmanognathus												0.12	0.86	0.02			
Taunaspis								1.00									
Taurocephalus	1																
Tchekardichthys		1.00															
Tegeolepis							1.00										
Tenuacaptor		1.00															
Teresodus	0.57	0.43															
Teridontus															1.00		
Tersomius		1.00															
Tesakoviaspis											1.00						
Tesseraspis								0.68	0.32								
Tetraceratops		1.00															
Tetracynodon	1																
Texasodus	0.57	0.43															
Thadeosaurus	1																
Thaumatacanthus	1																
Thecodontichnus	1																
Thelodus											1.00						

Theriognathus	1																
Therioides	1																
Thliptosaurus	1																
Thrinacodus						0.53	0.47										
Thrincodus														0.65	0.35		
Thuringothyris		1.00															
Thursius							1.00										
Thyestes									1.00								
Tiarajudens	0.59	0.41															
Tiaraspis								1.00									
Tigrisuchus	1																
Tiktaalik							1.00										
Timanaspis									1.00								
Timanosaurus		1.00															
Timanosteus							1.00										
Timonya		1.00															
Titanichthys							1.00										
Titanogorgon	1																
Titanophoneus	0.73	0.27															
Titanosuchus	0.59	0.41															
Tokosaurus		1.00															
Tollodus								1.00									
Tolypelepis										1.00							
Toombsosteus								1.00									
Torosteus							1.00										
Tortodus							0.16	0.84									
Toxoprion		1.00															
Toyemia	0.95	0.05															
Trachosteus							1.00										
Trachystegos		0.14	0.86														
Tranodis					0.44	0.56											
Trapezognathus														0.30	0.70		
Trematapsis										1.00							
Trematops		1.00															
Trematosteus							1.00										
Triangulodus														0.30	0.70		
Triazeugacanthus							1.00										
Trichasaurus		1.00															
Trichonodella													0.22	0.78			
Trichorhipis		1.00															
Tricostatus														0.30	0.70		
tridensaspis								1.00									
Trihecaton		1.00															
Trimerorhachis		1.00															
Triodus			0.51	0.49													
Tripodellus							1.00										
Tripodus														0.65	0.35		

Tristychius				0.40	0.60												
Trochorhinus	1																
Trochosaurus	1																
Trochosuchus	1																
Trolmenia															0.41	0.54	0.04
Tropidosteus							1.00										
Tropidostoma	1																
Tropodus														0.30	0.70		
Trucheosaurus	1																
trundlelepis								1.00									
Trypanognathus		1.00															
Tryphosuchus	0.95	0.05															
Tseajaia		1.00															
Tubonasus							1.00										
Tuditanus		1.00															
Tulerpeton							1.00										
Tungsenia								1.00									
Tungussogyrinus	1																
Tupilakosaurus	1																
Turfanodon	1																
Turinia								0.68	0.32								
Tuvaspis									1.00								
Tuxekania											1.00						
Tylodus									1.00								
Tyriaspis									1.00								
Ukrainaspis								0.77	0.23								
Ulemica	0.73	0.27															
Ulemosaurus	0.95	0.05															
Ulititaspis									1.00								
Ulrichodina														0.30	0.70		
Unarkaspis								0.68	0.32								
Undichna		0.73	0.27														
Uralerpeton	1																
Uralocynodon	1																
Uralosuchus	0.95	0.05															
Uranocentrodon	1																
Uranolophus								0.68	0.32								
Urocordylus		0.14	0.86														
Urosthenes	0.95	0.05															
Urumqia	0.57	0.43															
Ustia	1																
Utahacanthus			0.51	0.49													
Utahconus															1.00		
Utaherpeton			0.03	0.98													
Utegenia		1.00															
Valiukia									1.00								
Varanodon	0.29	0.71															

Varanops		1.00															
Varanopus		1.00															
Varanosaurus		1.00															
Variabiloconus															0.56	0.43	
Varialepis		1.00															
Vaughnictis		1.00															
Venoistodus													1.00				
Ventastega							1.00										
Ventricodus														0.30	0.70		
Venustodus					0.42	0.58											
Venyukovia	0.73	0.27															
Vetusodon	1																
Viatkogorgon	1																
Viatkosuchus	1																
Vivaxosaurus	1																
Vogelgnathus						1.00											
Waggoneria		1.00															
Walliserodus														1.00			
Walteria	1																
wangolepis										1.00							
Wantulignathus	0.59	0.41															
Wardichthys						0.80	0.20										
Watongia	0.29	0.71															
Watsonichthyes						0.80	0.20										
Watsonichthys		1.00															
Weejasperaspis								1.00									
Weigeltaspis								0.68	0.32								
Weigeltisaurus	1																
Wendyichthys			0.15	0.86													
Wenshanaspis								1.00									
Westergaardodina																	1.00
Westlothiana				0.40	0.60												
Westollia		1.00															
Whatcheeria					0.44	0.56											
Wheathillaspis								0.68	0.32								
Whiteichthys						0.80	0.20										
Wijdeaspis								1.00									
Williamsaspis								1.00									
Willomorichthys					0.42	0.58											
Windsorgnathus					1.00												
Witaaspis									1.00								
Wodnika	0.95	0.05															
Wudinolepis								1.00									
Wumengshanaspis								1.00									
Wurmiella												1.00					
wuxuanichthys								1.00									
Xaniognathus	1																

Xenacanthus		1.00															
Xenosynechodus	0.57	0.43															
Xeradipterus							1.00										
Xiangshuiosteus								1.00									
Xichonolepis								1.00									
Xinanpetalichthyes								1.00									
xinjiangichthys											1.00						
Xiushuiaspis											1.00						
Xyrospondylus		1.00															
Xystracanthus	1																
Yaoxianognathus												0.71	0.30				
yiminaspis								1.00									
Yinostius								1.00									
Ymeria							1.00										
Yoglinia							1.00										
youngacanthus								1.00									
Youngichthys	1																
Youngina	1																
Youngolepis								0.68	0.32								
Youngquistognathus							1.00										
yujiangolepis								1.00									
Yumenerpeton		1.00															
yunlongolepis								1.00									
Yunnanogaleaspis								0.04	0.96								
Yunnanolepis								0.68	0.32								
Yunnanozoon																	1.00
Zarcasaurus		1.00															
Zascinaspis								0.77	0.23								
Zatrachys		1.00															
Zhanjilepis								0.68	0.32								
zhaotongaspis								1.00									
Zhejiangichthys	1																
Zhongjiania	1																
Zieglerodina									1.00								
Zinnosaurus	1																
Zopherosuchus	0.57	0.43															
Zychaspis								1.00									
Zygognathus												0.08	0.59	0.32			
Zygosaurus		1.00															