

Supplementary File S5.1 Nerve growth factor (NGF) sequence sets

Elapidae		Accession	Viperidae		Accession
1	Bungarus multicinctus	S56212.1	1	Agkistrodon contortrix	EU437986.1
2	Cacophis squamulosa	GC_RL8_rep_c1593	2	Azemiops feae	DQ139929.1
3	Demansia vestigiata	DQ917528.1	3	Azemiops feae	Afe_RL4_rep_c388
4	Demansia vestigiata	DQ917526.1	4	Azemiops feae	EU437992.1
5	Demansia vestigiata	DQ917527.1	5	Bitis gabonica	AY430406.1
6	Drysdalia coronoides	HM627208.1	6	Bothrops asper	EU437994.1
7	Echiopsis curta	Ecu_RL8_rep_c378	7	Bothrops jararacussu	AY007318.1
8	Echiopsis curta	Ecu_RL8_rep_c757	8	Causus defilippi	EU437997.1
9	Furina ornata	For_RL9_rep_c360	9	Crotalus adamanteus	JU173670.1
10	Furina ornata	For_RL9_rep_c523	10	Crotalus durissus	AF306533.1
11	Hoplocephalus bungaroides	Hbu_RL1_rep_c521	11	Crotalus o helleri	CohCI9_RL3_c37
12	Hoplocephalus bungaroides	Hbu_RL1_rep_c597	12	Crotalus o helleri	CohID2_RL5_rep_c250
13	Hoplocephalus bungaroides	Hbu_RL1_rep_c786	13	Crotalus o helleri	CohLL5_RL4_rep_c451
14	Hoplocephalus bungaroides	Hbu_RL1_rep_c923	14	Crotalus o helleri	CohLL5_RL4_rep_c668
15	Hoplocephalus bungaroides	Hbu_RL1_rep_c961	15	Crotalus o helleri	CohPH1_RL6_rep_c413
16	Hoplocephalus stephensii	DQ181915.1	16	Daboia russellii	EU438000.1
17	Hoplocephalus stephensii	DQ181916.1	17	Lachesis stenophrys	EU438008.1
18	Laticauda colubrina	EU438011.1	18	Macrovipera lebetina	AY740013.1
19	Micrurus fulvius	EU438017.1	19	Sistrurus catenatus edwardsi	DQ464261.1
20	Naja kaouthia	EU438018.1	20	Protobothrops flavoviridis	AB362782.1
21	Naja sputatrix	AY527216.1	'Non-front-fanged'		Accession
22	Naja sputatrix	AY527215.1	1	Afronatrix anoscopus	EU437985.1
23	Notechis scutatus	DQ181908.1	2	Amphiesma stolata	EU437987.1
24	Notechis scutatus	DQ181910.1	3	Coluber constrictor	EU437998.1
25	Notechis scutatus	DQ181909.1	4	Diadophis punctatus	EU438001.1
26	Notechis scutatus	EU438020.1	5	Heterodon platirhinos	EU438005.1
27	Oxyuranus microlepidotus	DQ181904.1	6	Imantodes cenchoa	EU438007.1
28	Oxyuranus microlepidotus	DQ181905.1	7	Lampropeltis getula	EU438009.1
29	Oxyuranus scutellatus	DQ084064.1	8	Natrix natrix	EU438019.1
30	Parasuta nigriceps	FJ790485.1	9	Sonora semiannulata	EU438023.1
31	Pseudechis australis	DQ181912.1	10	Thamnophis marcianus	EU438024.1
32	Pseudechis australis	DQ181914.1	11	Trimorphodon biscutatus	EU438026.1
33	Pseudechis australis	DQ181913.1	12	Xenochrophis piscator	EU438030.1
34	Pseudechis porphyriacus	DQ181911.1	Henophidia		Accession
35	Pseudonaja modesta	Pmo_RL10_rep_c337	1	Boa constrictor	EU437993.1
36	Pseudonaja textilis	DQ181907.1	2	Calabaria reinhardtii	EU437995.1
37	Pseudonaja textilis	DQ181906.1	3	Casarea dussumieri	EU437996.1
38	Rhinoplocephalus nigrescens	DQ422727.1	4	Charina trivirgata	EU438013.1
39	Simoselaps roperi	Bse_RL2_rep_c1017	5	Cylindrophis ruffus	EU437999.1
40	Simoselaps roperi	Bse_RL2_rep_c1023	6	Epicrates striatus	EU438002.1
41	Simoselaps roperi	Bse_RL2_rep_c1058	7	Eryx colubrinus	EU438003.1
42	Simoselaps roperi	Bse_RL2_rep_c1060	8	Exiliboa placata	EU438004.1
43	Simoselaps roperi	Bse_RL2_rep_c1086	9	Loxocemus bicolor	EU438015.1
44	Simoselaps roperi	Bse_RL2_rep_c1103	10	Python molurus	EU437990.1
45	Simoselaps roperi	Bse_RL2_rep_c1131	11	Python molurus	EU438022.1
46	Simoselaps roperi	Bse_RL2_rep_c1310	12	Xenopeltis unicolor	EU438032.1
47	Simoselaps roperi	Bse_RL2_rep_c2194			
48	Simoselaps roperi	Bse_RL2_rep_c3514			
49	Simoselaps roperi	Bse_RL2_rep_c4864			

50	<i>Simoselaps roperi</i>	Bse_RL2_rep_c4921	60	<i>Denisonia devisii</i>	Dde_RL7_rep_c182
51	<i>Simoselaps roperi</i>	Bse_RL2_rep_c895	61	<i>Denisonia devisii</i>	Dde_RL7_rep_c307
52	<i>Simoselaps roperi</i>	Bse_RL2_rep_c972			
53	<i>Tropidechis carinatus</i>	DQ181919.1			
54	<i>Tropidechis carinatus</i>	DQ181918.1			
55	<i>Tropidechis carinatus</i>	DQ181920.1			
56	<i>Tropidechis carinatus</i>	DQ181921.1			
57	<i>Tropidechis carinatus</i>	DQ181917.1			
58	<i>Vermicella annulata</i>	Van_RL12_rep_c317			
59	<i>Vermicella annulata</i>	Van_RL12_rep_c673			

Iguania		Accession	Gekkota		Accession
1	<i>Acanthosaura lepidogaster</i>	JF818319.1	1	<i>Coleonyx variegatus</i>	JF818314.1
2	<i>Anolis carolinensis</i>	EU437979.1	2	<i>Eublepharis macularius</i>	GU432729.1
3	<i>Basiliscus basiliscus</i>	JF818336.1	3	<i>Gekko gecko</i>	EU437977.1
4	<i>Brachylophus fasciatus</i>	JF818341.1	4	<i>Gonatodes albogularis</i>	GU432731.1
5	<i>Chalarodon madagascariensis</i>	JF818349.1	5	<i>Hemidactylus brookii</i>	HM180146.1
6	<i>Chamaeleo calyptratus</i>	GU432713.1	6	<i>Hemidactylus coalescens</i>	HM180179.1
7	<i>Chlamydosaurus kingii</i>	JF818322.1	7	<i>Hemidactylus coalescens</i>	HM180177.1
8	<i>Corytophanes cristatus</i>	JF818337.1	8	<i>Hemidactylus coalescens</i>	HM180143.1
9	<i>Crotaphytus collaris</i>	JF818338.1	9	<i>Hemidactylus coalescens</i>	HM180180.1
10	<i>Ctenophorus isolepis</i>	JF818323.1	10	<i>Hemidactylus coalescens</i>	HM180178.1
11	<i>Dipsosaurus dorsalis</i>	JF818342.1	11	<i>Hemidactylus coalescens</i>	HM180176.1
12	<i>Draco blanfordii</i>	JF818324.1	12	<i>Hemidactylus eniangii</i>	HM180175.1
13	<i>Enyalioides laticeps</i>	GU432714.1	13	<i>Hemidactylus eniangii</i>	HM180173.1
14	<i>Gambelia wislizenii</i>	JF818339.1	14	<i>Hemidactylus eniangii</i>	HM180141.1
15	<i>Hypsilurus boydii</i>	JF818326.1	15	<i>Hemidactylus eniangii</i>	HM180139.1
16	<i>Leiocephalus barahonensis</i>	JF818356.1	16	<i>Hemidactylus eniangii</i>	HM180137.1
17	<i>Leiolepis belliana</i>	JF818335.1	17	<i>Hemidactylus eniangii</i>	HM180174.1
18	<i>Leiosaurus catamarcensis</i>	JF818344.1	18	<i>Hemidactylus eniangii</i>	HM180142.1
19	<i>Liolaemus bellii</i>	JF818347.1	19	<i>Hemidactylus eniangii</i>	HM180140.1
20	<i>Morunasaurus annularis</i>	JF818340.1	20	<i>Hemidactylus fasciatus</i>	HM180159.1
21	<i>Oplurus cyclurus</i>	GU432716.1	21	<i>Hemidactylus fasciatus</i>	HM180157.1
22	<i>Petrosaurus mearnsi</i>	JF818350.1	22	<i>Hemidactylus fasciatus</i>	HM180155.1
23	<i>Phrynocephalus mystaceus</i>	JF818328.1	23	<i>Hemidactylus fasciatus</i>	HM180153.1
24	<i>Phrynosoma platyrhinos</i>	JF818351.1	24	<i>Hemidactylus fasciatus</i>	HM180151.1
25	<i>Phymaturus palluma</i>	JF818348.1	25	<i>Hemidactylus fasciatus</i>	HM180149.1
26	<i>Physignathus lesueurii</i>	JF818330.1	26	<i>Hemidactylus fasciatus</i>	HM180145.1
27	<i>Pogona vitticeps</i>	JF818331.1	27	<i>Hemidactylus fasciatus</i>	HM180158.1
28	<i>Polychrus marmoratus</i>	JF818355.1	28	<i>Hemidactylus fasciatus</i>	HM180156.1
29	<i>Pristidactylus torquatus</i>	JF818345.1	29	<i>Hemidactylus fasciatus</i>	HM180154.1
30	<i>Saara hardwickii</i>	GU432715.1	30	<i>Hemidactylus fasciatus</i>	HM180152.1
31	<i>Sauromalus ater</i>	JF818343.1	31	<i>Hemidactylus fasciatus</i>	HM180144.1
32	<i>Sceloporus variabilis</i>	JF818352.1	32	<i>Hemidactylus kyaboboensis</i>	HM180171.1
33	<i>Stenocercus guentheri</i>	JF818357.1	33	<i>Hemidactylus kyaboboensis</i>	HM180169.1
34	<i>Tropidurus plica</i>	JF818358.1	34	<i>Hemidactylus kyaboboensis</i>	HM180167.1
35	<i>Uma scoparia</i>	JF818353.1	35	<i>Hemidactylus kyaboboensis</i>	HM180165.1
36	<i>Uranoscodon superciliosus</i>	JF818359.1	36	<i>Hemidactylus kyaboboensis</i>	HM180163.1
37	<i>Urostrophus vautieri</i>	JF818346.1	37	<i>Hemidactylus kyaboboensis</i>	HM180161.1
38	<i>Uta stansburiana</i>	JF818354.1	38	<i>Hemidactylus kyaboboensis</i>	HM180172.1
			39	<i>Hemidactylus kyaboboensis</i>	HM180170.1

Laterata	Accession
1 Amphisbaena alba	GU432741.1
2 Aspidoscelis tigris	EU437982.1
3 Bipes canaliculatus	GU432742.1
4 Lacerta viridis	GU432740.1
5 Pholidobolus macbrydei	GU432739.1
6 Rhineura floridana	GU432743.1
7 Trogonophis wiegmanni	GU432744.1

40 Hemidactylus kyaboboensis	HM180168.1
41 Hemidactylus kyaboboensis	HM180166.1
42 Hemidactylus kyaboboensis	HM180164.1
43 Hemidactylus kyaboboensis	HM180162.1
44 Hemidactylus kyaboboensis	HM180160.1
45 Hemidactylus kyaboboensis	HM180150.1
46 Hemidactylus kyaboboensis	HM180148.1
47 Saltuarius cornutus	JF818315.1
48 Strophurus ciliaris	GU432730.1

Scinciformata	Accession
1 Acontias meleagris	GU432735.1
2 Cordylosaurus subtesselatus	JF818316.1
3 Cordylus mossambicus	GU432734.1
4 Feylinia polylepis	GU432736.1
5 Lepidophyma flavimaculatum	GU432738.1
6 Scincus scincus	GU432737.1
7 Xantusia vigilis	EU437983.1

Mammals	Accession
1 Bos taurus	NM_001099362.1
2 Bos taurus	Y09566.1
3 Canis familiaris	AY800386.1
4 Canis lupus familiaris	NM_001194950.1
5 Gorilla gorilla	AY091926.1
6 Gorilla gorilla	AB037519.1
7 Homo sapiens	AB489186.1
8 Homo sapiens	NG_007944.1
9 Homo sapiens	NM_002506.2
10 Homo sapiens	HQ258125.1
11 Homo sapiens	BT019733.1
12 Homo sapiens	AF411526.1
13 Homo sapiens	AF150960.1
14 Homo sapiens	AL049825.18
15 Homo sapiens	X52599.1
16 Homo sapiens	BC126150.1
17 Homo sapiens	BC126148.1
18 Homo sapiens	V01511.1
19 Homo sapiens	CR541855.1
20 Homo sapiens	X53655.1
21 Macaca fuscata	AF222682.1
22 Macaca sp.	AY091928.1
23 Mus musculus	NM_001112698.1
24 Mus musculus	NM_013609.2
25 Mus musculus	AK144588.1
26 Mus musculus	BC156604.1
27 Mus musculus	K01759.1
28 Mus musculus	V00836.1
29 Mus sp	M14805.1
30 Mus sp	M35075.1
31 Pan troglodytes	NM_001012437.1
32 Pan troglodytes	AY091925.1
33 Pongo pygmaeus	AY091927.1
34 Pongo pygmaeus	AB037520.1
35 Praomys natalensis	M22748.1
36 Rattus norvegicus	M36589.1
37 Saimiri boliviensis	AY665218.1
38 Sus scrofa	L31898.1

Anguimorpha	Accession
1 Anniella pulchra	GU432718.1
2 Elgaria multicarinata	GU432720.1
3 Heloderma horridum	GU432721.1
4 Heloderma suspectum	GU432722.1
5 Heloderma suspectum	EU790966.1
6 Lanthanotus borneensis	GU432725.1
7 Pseudopus apodus	GU432717.1
8 Shinisaurus crocodilurus	GU432723.1
9 Varanus exanthematicus	GU432727.1
10 Varanus salvator	EU437981.1
11 Xenosaurus grandis	GU432724.1
12 Xenosaurus platyceps	EU437980.1
13 Varanus acanthurus	GU432726.1
14 Celestus enneagrammus	GU432719.1
15 Varanus acanthurus	DQ139928.1
16 Abronia gramminea	Abro_RL8_rep_c474
17 Abronia gramminea	Abro_RL8_rep_c785
18 Heloderma suspectum	Hsu_RL11_rep_c662

Turtles	Accession
1 Actinemys marmorata	GU085534.1
2 Actinemys marmorata	GQ896037.1
3 Batagur trivittata	GU085527.1
4 Carettochelys insculpta	GU085528.1
5 Chelonia mydas	GU085529.1
6 Chelydra serpentina	GU085531.1
7 Chrysemys picta	GQ896038.1
8 Clemmys guttata	GQ896039.1
9 Deirochelys reticularia	GQ896040.1
10 Dermochelys coriacea	GU085532.1
11 Dogania subplana	GU085533.1
12 Emydoidea blandingii	GQ896041.1

13	<i>Emys orbicularis</i>	GQ896042.1
14	<i>Glyptemys insculpta</i>	GQ896043.1
15	<i>Glyptemys muhlenbergii</i>	GQ896044.1
16	<i>Graptemys barbouri</i>	GQ896045.1
17	<i>Graptemys caglei</i>	GQ896046.1
18	<i>Graptemys flavimaculata</i>	GQ896047.1
19	<i>Graptemys geographica</i>	GQ896048.1
20	<i>Graptemys gibbonsi</i>	GQ896049.1
21	<i>Graptemys nigrinoda</i>	GQ896050.1
22	<i>Graptemys ouachitensis</i>	GQ896052.1
23	<i>Graptemys ouachitensis</i>	GQ896051.1
24	<i>Graptemys pseudogeographica</i>	GQ896053.1
25	<i>Graptemys pulchra</i>	GQ896054.1
26	<i>Graptemys versa</i>	GQ896055.1
27	<i>Kinosternon flavescens</i>	GU085535.1
28	<i>Macrochelys temminckii</i>	GU085538.1
29	<i>Malaclemys terrapin</i>	GQ896056.1
30	<i>Malaclemys terrapin</i>	GQ896057.1
31	<i>Manouria emys</i>	GU085536.1
32	<i>Mauremys reevesii</i>	GU085537.1
33	<i>Pelodiscus sinensis</i>	GU085541.1
34	<i>Pseudemys concinna</i>	GQ896058.1
35	<i>Pseudemys gorzugi</i>	GQ896059.1
36	<i>Pseudemys nelsoni</i>	GQ896060.1
37	<i>Pseudemys peninsularis</i>	GQ896061.1
38	<i>Pseudemys rubriventris</i>	GQ896062.1
39	<i>Pseudemys texana</i>	GQ896063.1
40	<i>Rhinoclemmys annulata</i>	GU085543.1
41	<i>Sternotherus odoratus</i>	GU085544.1
42	<i>Terrapene carolina</i>	GQ896065.1
43	<i>Terrapene coahuila</i>	GQ896066.1
44	<i>Testudo graeca</i>	GU085545.1
45	<i>Trachemys scripta</i>	GQ896072.1
46	<i>Trachemys scripta</i>	GQ896070.1
47	<i>Trachemys scripta</i>	GQ896071.1

Note: Unpublished sequences are available in supplementary file 2

Supplementary File S5.2 Brain-derived neurotrophic factor (BDNF) sequence sets

Elapidae		Accession	Viperidae		Accession
1	<i>Bungarus fasciatus</i>	FJ433989.1	1	<i>Agkistrodon contortrix</i>	EU402623.1
2	<i>Dendroaspis angusticeps</i>	FJ433988.1	2	<i>Azemiops feae</i>	EU402628.1
3	<i>Elapsoidea semiannulata</i>	FJ433987.1	3	<i>Bothriechis schlegelii</i>	FJ433983.1
4	<i>Laticauda colubrina</i>	EU402647.1	4	<i>Bothrops asper</i>	EU402630.1
5	<i>Laticauda colubrina</i>	FJ433990.1	5	<i>Bothrops atrox</i>	DQ469794.1
6	<i>Micrurus fulvius</i>	EU402653.1	6	<i>Causus defilippi</i>	EU402633.1
7	<i>Micrurus surinamensis</i>	FJ433991.1	7	<i>Daboia russellii</i>	EU402636.1
8	<i>Naja kaouthia</i>	EU402654.1	8	<i>Lachesis stenophrys</i>	EU402644.1
9	<i>Notechis scutatus</i>	EU402656.1			

'Non-front-fanged'		Accession	Typhlopidae		Accession
1	<i>Amphiesma stolata</i>	EU402624.1	1	<i>Acutotyphlops</i> sp.	GU902459.1
2	<i>Calamaria pavementata</i>	FJ434005.1	2	<i>Acutotyphlops subocularis</i>	GU902418.1
3	<i>Contia longicaudae</i>	GU112371.1	3	<i>Afrottyphlops fornasinii</i>	GU902447.1
4	<i>Contia longicaudae</i>	GU112369.1	4	<i>Afrottyphlops lineolatus</i>	GU902451.1
5	<i>Contia longicaudae</i>	GU112367.1	5	<i>Ramphotyphlops endoterus</i>	GU902399.1
6	<i>Contia longicaudae</i>	GU112365.1	6	<i>Ramphotyphlops ganei</i>	GU902412.1
7	<i>Contia longicaudae</i>	GU112372.1	7	<i>Ramphotyphlops guentheri</i>	GU902404.1
8	<i>Contia longicaudae</i>	GU112368.1	8	<i>Ramphotyphlops howi</i>	GU902414.1
9	<i>Contia longicaudae</i>	GU112366.1	9	<i>Ramphotyphlops kimberleyensis</i>	GU902406.1
10	<i>Contia longicaudae</i>	GU112364.1	10	<i>Ramphotyphlops splendidus</i>	GU902416.1
11	<i>Contia tenuis</i>	GU112363.1	11	<i>Letheobia unitaeniata</i>	GU902452.1
12	<i>Contia tenuis</i>	GU112361.1	12	<i>Megatyphlops schlegelii</i>	GU902449.1
13	<i>Contia tenuis</i>	GU112359.1	13	<i>Ramphotyphlops albiceps</i>	GU902382.1
14	<i>Contia tenuis</i>	GU112357.1	14	<i>Ramphotyphlops braminus</i>	FJ433959.1
15	<i>Contia tenuis</i>	GU112355.1	15	<i>Ramphotyphlops lineatus</i>	GU902384.1
16	<i>Contia tenuis</i>	GU112353.1	16	<i>Ramphotyphlops longissimus</i>	GU902408.1
17	<i>Contia tenuis</i>	GU112351.1	17	<i>Ramphotyphlops pilbarensis</i>	GU902400.1
18	<i>Contia tenuis</i>	GU112349.1	18	<i>Ramphotyphlops</i> sp.	GU902420.1
19	<i>Contia tenuis</i>	GU112347.1	19	<i>Ramphotyphlops waitii</i>	GU902402.1
20	<i>Contia tenuis</i>	GU112345.1	20	<i>Rhinotyphlops lalandei</i>	GU902386.1
21	<i>Contia tenuis</i>	GU112343.1	21	<i>Rhinotyphlops newtoni</i>	GU902388.1
22	<i>Contia tenuis</i>	GU112341.1	22	<i>Typhlops agoralionis</i>	GU902422.1
23	<i>Contia tenuis</i>	GU112339.1	23	<i>Typhlops andasibensis</i>	GU902453.1
24	<i>Contia tenuis</i>	GU112337.1	24	<i>Typhlops arator</i>	GU902424.1
25	<i>Contia tenuis</i>	GU112360.1	25	<i>Typhlops catapontus</i>	GU902426.1
26	<i>Contia tenuis</i>	GU112358.1	26	<i>Typhlops contorhinus</i>	GU902446.1
27	<i>Contia tenuis</i>	GU112356.1	27	<i>Typhlops dominicanus</i>	GU902428.1
28	<i>Contia tenuis</i>	GU112354.1	28	<i>Typhlops granti</i>	GU902430.1
29	<i>Contia tenuis</i>	GU112350.1	29	<i>Typhlops hedraeus</i>	GU902392.1
30	<i>Contia tenuis</i>	GU112348.1	30	<i>Typhlops jamaicensis</i>	EU402664.1
31	<i>Contia tenuis</i>	GU112346.1	31	<i>Typhlops jamaicensis</i>	GU902432.1
32	<i>Contia tenuis</i>	GU112342.1	32	<i>Typhlops lumbricalis</i>	FJ433958.1
33	<i>Contia tenuis</i>	GU112340.1	33	<i>Typhlops mirus</i>	GU902394.1
34	<i>Contia tenuis</i>	GU112338.1	34	<i>Typhlops monastus</i>	GU902434.1
35	<i>Cyclophiops major</i>	AF497715.1	35	<i>Typhlops notorachius</i>	GU902436.1
36	<i>Diadophis punctatus</i>	FJ433997.1	36	<i>Typhlops pammeceus</i>	GU902458.1
37	<i>Diadophis punctatus</i>	EU402637.1	37	<i>Typhlops reticulatus</i>	GU902396.1
38	<i>Diadophis punctatus</i>	GU112373.1	38	<i>Typhlops richardi</i>	GU902438.1

39	<i>Grayia ornata</i>	FJ434002.1	39	<i>Typhlops schwartzi</i>	GU902440.1
40	<i>Hapsidophrys smaragdina</i>	FJ434003.1	40	<i>Typhlops</i> sp.	GU902460.1
41	<i>Heterodon platirhinos</i>	GU112374.1	41	<i>Typhlops</i> sp.	GU902454.1
42	<i>Imantodes cenchoa</i>	EU402643.1	42	<i>Typhlops sylleptor</i>	GU902442.1
43	<i>Lampropeltis getula</i>	EU402645.1	43	<i>Xenotyphlops grandidieri</i>	GU902457.1
44	<i>Liophis lineatus</i>	DQ469795.1	44	<i>Xenotyphlops</i> sp.	GU902456.1
45	<i>Natrix natrix</i>	EU402655.1			
46	<i>Phyllorhynchus decurtatus</i>	FJ434004.1			
47	<i>Pseudoxenodon bambusicola</i>	FJ434000.1			
48	<i>Sonora semiannulata</i>	EU402659.1			
49	<i>Thamnophis marcianus</i>	EU402660.1			
50	<i>Trimorphodon biscutatus</i>	EU402662.1			
51	<i>Xenochrophis flavipunctatus</i>	FJ434001.1			
52	<i>Xenochrophis piscator</i>	EU402666.1			

	Pythonidae	Accession
1	<i>Apodora papuana</i>	FJ433971.1
2	<i>Aspidites melanocephala</i>	DQ465559.1
3	<i>Aspidites melanocephalus</i>	EU402627.1
4	<i>Liasis savuensis</i>	FJ433970.1
5	<i>Morelia spilota</i>	AY988035.1
6	<i>Python molurus</i>	EU402658.1
7	<i>Python reticulatus</i>	FJ433969.1

Boidae	Accession	Anguimorpha	Accession	
1	<i>Acrantophis dumerili</i>	1	<i>Anniella geronimensis</i>	EU445907.1
2	<i>Acrantophis madagascariensis</i>	2	<i>Anniella geronimensis</i>	EU445908.1
3	<i>Acrantophis madagascariensis</i>	3	<i>Anniella geronimensis</i>	EU445909.1
4	<i>Boa constrictor</i>	4	<i>Anniella pulchra</i>	EU445844.1
5	<i>Boa constrictor</i>	5	<i>Anniella pulchra</i>	EU445845.1
6	<i>Calabaria reinhardtii</i>	6	<i>Anniella pulchra</i>	EU445846.1
7	<i>Calabaria reinhardtii</i>	7	<i>Anniella pulchra</i>	EU445847.1
8	<i>Candoia carinata</i>	8	<i>Anniella pulchra</i>	EU445848.1
9	<i>Charina bottae</i>	9	<i>Anniella pulchra</i>	EU445849.1
10	<i>Charina bottae</i> BDNF	10	<i>Anniella pulchra</i>	EU445850.1
11	<i>Charina trivirgata</i>	11	<i>Anniella pulchra</i>	EU445851.1
12	<i>Charina trivirgata</i>	12	<i>Anniella pulchra</i>	EU445852.1
13	<i>Corallus caninus</i>	13	<i>Anniella pulchra</i>	EU445858.1
14	<i>Eryx colubrinus</i>	14	<i>Anniella pulchra</i>	EU445859.1
15	<i>Eryx conicus</i>	15	<i>Anniella pulchra</i>	EU445860.1
16	<i>Eryx miliaris</i>	16	<i>Anniella pulchra</i>	EU445861.1
17	<i>Gongylophis colubrinus</i>	17	<i>Anniella pulchra</i>	EU445862.1
18	<i>Sanzinia madagascariensis</i>	18	<i>Anniella pulchra</i>	EU445863.1
		19	<i>Anniella pulchra</i>	EU445864.1
		20	<i>Anniella pulchra</i>	EU445865.1
		21	<i>Anniella pulchra</i>	EU445866.1
		22	<i>Anniella pulchra</i>	EU445867.1
		23	<i>Anniella pulchra</i>	EU445868.1
		24	<i>Anniella pulchra</i>	EU445869.1
		25	<i>Anniella pulchra</i>	EU445870.1
		26	<i>Anniella pulchra</i>	EU445871.1
		27	<i>Anniella pulchra</i>	EU445872.1
		28	<i>Anniella pulchra</i>	EU445873.1
		29	<i>Anniella pulchra</i>	EU445874.1
		30	<i>Anniella pulchra</i>	EU445875.1
		31	<i>Anniella pulchra</i>	EU445876.1
		32	<i>Anniella pulchra</i>	EU445877.1
		33	<i>Anniella pulchra</i>	EU445878.1
		34	<i>Anniella pulchra</i>	EU445879.1
		35	<i>Anniella pulchra</i>	EU445880.1

Iguania	Accession	
1	<i>Anolis acutus</i>	EU544058.1
2	<i>Anolis cooki</i>	EU544066.1
3	<i>Anolis cristatellus</i>	EU544074.1
4	<i>Anolis cristatellus</i>	EU544072.1
5	<i>Anolis cristatellus</i>	EU544070.1
6	<i>Anolis cristatellus</i>	EU544073.1
7	<i>Anolis desecheensis</i>	EU544068.1
8	<i>Anolis distichus</i>	EU544057.1
9	<i>Anolis ernestwilliamsi</i>	EU544069.1
10	<i>Anolis gundlachi</i>	EU544060.1
11	<i>Anolis krugi</i>	EU544061.1
12	<i>Anolis monensis</i>	EU544067.1
13	<i>Anolis poncensis</i>	EU544062.1
14	<i>Anolis pulchellus</i>	EU544063.1
15	<i>Anolis scriptus</i>	EU544065.1

16	<i>Anolis stratulus</i>	EU544064.1
17	<i>Basiliscus basiliscus</i>	JF806017.1
18	<i>Brachylophus fasciatus</i>	JF806018.1
19	<i>Chalarodon madagascariensis</i>	JF806019.1
20	<i>Corytophanes cristatus</i>	JF806020.1
21	<i>Crotaphytus collaris</i>	JF806021.1
22	<i>Enyalioides heterolepis</i>	EU586759.1
23	<i>Enyalioides heterolepis</i>	EU586768.1
24	<i>Enyalioides heterolepis</i>	EU586760.1
25	<i>Enyalioides laticeps</i>	EU586761.1
26	<i>Enyalioides laticeps</i>	EU586762.1
27	<i>Enyalioides microlepis</i>	EU586763.1
28	<i>Enyalioides oshaughnessyi</i>	EU586764.1
29	<i>Enyalioides palpebralis</i>	EU586765.1
30	<i>Enyalioides praestabilis</i>	EU586766.1
31	<i>Enyalioides sp.</i>	EU586767.1
32	<i>Hoplocercus spinosus</i>	EU586769.1
33	<i>Leiocephalus barahonensis</i>	HQ876223.1
34	<i>Leiosaurus catamarcensis</i>	JF806022.1
35	<i>Liolaemus bellii</i>	HQ876220.1
36	<i>Morunasaurus annularis</i>	HQ876218.1
37	<i>Petrosaurus mearnsi</i>	JN648396.1
38	<i>Petrosaurus mearnsi</i>	HQ876221.1
39	<i>Petrosaurus repens</i>	JN648397.1
40	<i>Phrynosoma coronatum</i>	JN648400.1
41	<i>Phrynosoma platyrhinos</i>	JF806023.1
42	<i>Phymaturus palluma</i>	JF806024.1
43	<i>Polychrus marmoratus</i>	HQ876222.1
44	<i>Pristidactylus</i>	JF806025.1
45	<i>Sauromalus ater</i>	JF806026.1
46	<i>Sceloporus consobrinus</i>	GQ494863.1
47	<i>Sceloporus consobrinus</i>	GQ494861.1
48	<i>Sceloporus consobrinus</i>	GQ494856.1
49	<i>Sceloporus cowlesi</i>	GQ494859.1
50	<i>Sceloporus cowlesi</i>	GQ494857.1
51	<i>Sceloporus hunsakeri</i>	JN648399.1
52	<i>Sceloporus tristichus</i>	GQ494855.1
53	<i>Sceloporus tristichus</i>	GQ494853.1
54	<i>Sceloporus undulatus</i>	GQ494867.1
55	<i>Sceloporus undulatus</i>	GQ494865.1
56	<i>Sceloporus undulatus</i>	GQ494866.1
57	<i>Sceloporus variabilis</i>	JF806027.1
58	<i>Stenocercus guentheri</i>	HQ876224.1
59	<i>Tropidurus plica</i>	JF806028.1
60	<i>Uma scoparia brain-derived</i>	JF806029.1
61	<i>Uranoscodon superciliosus</i>	JF806030.1
62	<i>Urosaurus bicarinatus</i>	JN648384.1
63	<i>Urosaurus clarionensis</i>	JN648382.1
64	<i>Urosaurus gadovi</i>	JN648391.1
65	<i>Urosaurus graciosus</i>	JN648393.1
66	<i>Urosaurus graciosus</i>	JN648392.1
67	<i>Urosaurus lahtelai</i>	JN648385.1

36	<i>Anniella pulchra</i>	EU445881.1
37	<i>Anniella pulchra</i>	EU445882.1
38	<i>Anniella pulchra</i>	EU445883.1
39	<i>Anniella pulchra</i>	EU445884.1
40	<i>Anniella pulchra</i>	EU445885.1
41	<i>Anniella pulchra</i>	EU445886.1
42	<i>Anniella pulchra</i>	EU445887.1
43	<i>Anniella pulchra</i>	EU445888.1
44	<i>Anniella pulchra</i>	EU445889.1
45	<i>Anniella pulchra</i>	EU445890.1
46	<i>Anniella pulchra</i>	EU445891.1
47	<i>Anniella pulchra</i>	EU445892.1
48	<i>Anniella pulchra</i>	EU445893.1
49	<i>Anniella pulchra</i>	EU445894.1
50	<i>Anniella pulchra</i>	EU445895.1
51	<i>Anniella pulchra</i>	EU445896.1
52	<i>Anniella pulchra</i>	EU445897.1
53	<i>Anniella pulchra</i>	EU445898.1
54	<i>Anniella pulchra</i>	EU445899.1
55	<i>Anniella pulchra</i>	EU445900.1
56	<i>Anniella pulchra</i>	EU445901.1
57	<i>Anniella pulchra</i>	EU445902.1
58	<i>Anniella pulchra</i>	EU445903.1
59	<i>Anniella pulchra</i>	EU445904.1
60	<i>Anniella pulchra</i>	EU445905.1
61	<i>Anniella pulchra</i>	EU445906.1
62	<i>Anniella pulchra</i>	HM160579.1
63	<i>Celestus enneagrammus</i>	GU457853.1
64	<i>Elgaria multicarinata</i>	GU457854.1
65	<i>Heloderma horridum</i>	GU457855.1
66	<i>Heloderma suspectum</i>	FJ433955.1
67	<i>Heloderma suspectum</i>	GU457856.1
68	<i>Lanthanotus borneensis</i>	GU457859.1
69	<i>Pseudopus apodus</i>	GU457851.1
70	<i>Shinisaurus crocodilurus</i>	GU457857.1
71	<i>Varanus acanthurus</i>	GU457860.1
72	<i>Varanus exanthematicus</i>	GU457861.1
73	<i>Varanus salvator voucher</i>	EU402618.1
74	<i>Xenosaurus grandis</i>	GU457858.1
75	<i>Xenosaurus platyceps</i>	EU402617.1

Crocodyles

Accession

1	<i>Alligator mississippiensis</i>	AF416631.1
2	<i>Alligator mississippiensis</i>	EU275888.1
3	<i>Alligator mississippiensis</i>	EU737934.1
4	<i>Alligator mississippiensis</i>	JN654788.1
5	<i>Alligator sinensis</i>	EF646303.1
6	<i>Caiman crocodilus</i>	EF646297.1
7	<i>Caiman latirostris</i>	EF646298.1
8	<i>Caiman yacare</i>	EF646299.1
9	<i>Crocodylus acutus</i>	EF646305.1
10	<i>Crocodylus intermedius</i>	EF646306.1

68	<i>Urosaurus microscutatus</i>	JN648386.1	11	<i>Crocodylus johnsoni</i>	EF646309.1
69	<i>Urosaurus ornatus</i>	JN648389.1	12	<i>Crocodylus mindorensis</i>	EF646310.1
70	<i>Urosaurus ornatus</i>	JN648390.1	13	<i>Crocodylus moreletii</i>	EF646307.1
71	<i>Urostrophus vaultieri</i>	HQ876219.1	14	<i>Crocodylus niloticus</i>	EF646314.1
72	<i>Uta squamata</i>	JN648394.1	15	<i>Crocodylus niloticus</i>	JQ073126.1
73	<i>Uta stansburiana</i>	JN648395.1	16	<i>Crocodylus niloticus</i>	JQ073127.1
74	<i>Uta stansburiana</i>	JF806031.1	17	<i>Crocodylus novaeguineae</i>	EF646311.1

Turtles	Accession	
1	<i>Batagur trivittata</i>	GU085546.1
2	<i>Caretta caretta</i>	FJ009029.1
3	<i>Caretta caretta</i>	FJ009022.1
4	<i>Carettochelys insculpta</i>	GU085547.1
5	<i>Chelonia mydas</i>	GU085548.1
6	<i>Chelonia mydas</i>	FJ039950.1
7	<i>Chelonia mydas</i>	FJ039936.1
8	<i>Chelonia mydas</i>	FJ039943.1
9	<i>Chelonia mydas</i>	FJ039929.1
10	<i>Chelonia mydas</i>	FJ039922.1
11	<i>Chelydra serpentina</i>	GU085550.1
12	<i>Chelydra serpentina</i>	FJ230854.1
13	<i>Chinemys reevesi</i>	EF646319.1
14	<i>Chrysemys picta</i>	GU085549.1
15	<i>Dermochelys coriacea</i>	GU085551.1
16	<i>Dermochelys coriacea</i>	FJ039915.1
17	<i>Dermochelys coriacea</i>	FJ039908.1
18	<i>Dogania subplana</i>	GU085552.1
19	<i>Eretmochelys imbricata</i>	FJ039965.1
20	<i>Eretmochelys imbricata</i>	FJ039972.1
21	<i>Erymnochelys madagascariensis</i>	AY988078.1
22	<i>Hydromedusa tectifera</i>	AY988083.1
23	<i>Kinosternon flavescens</i>	GU085554.1
24	<i>Lepidochelys kempii</i>	FJ039993.1
25	<i>Lepidochelys olivacea</i>	FJ039979.1
26	<i>Lepidochelys olivacea</i>	FJ039986.1
27	<i>Macrochelys temminckii</i>	GU085557.1
28	<i>Macrochelys temminckii</i>	FJ230861.1
29	<i>Manouria emys</i>	GU085555.1
30	<i>Mauremys reevesii</i>	GU085556.1
31	<i>Natator depressa</i>	FJ039957.1
32	<i>Pelodiscus sinensis</i>	GU085560.1
33	<i>Pelodiscus sinensis</i>	FJ230868.1
34	<i>Pelomedusa subrufa</i>	GU085561.1
35	<i>Pelomedusa subrufa</i>	FJ230875.1
36	<i>Pelomedusa subrufa</i>	AY988081.1
37	<i>Peltocephalus dumeriliana</i>	AY988080.1
38	<i>Pelusios gabonensis</i>	AY988082.1
39	<i>Platysternon megacephalum</i>	GU085558.1
40	<i>Psammobates pardalis</i>	GU085559.1
41	<i>Staurotypus triporcatus</i>	AY988084.1
42	<i>Sternotherus odoratus</i>	GU085563.1
43	<i>Testudo graeca</i>	GU085564.1

18	<i>Crocodylus palustris</i>	EF646313.1
19	<i>Crocodylus porosus</i>	EF646312.1
20	<i>Crocodylus porosus</i>	JN654790.1
21	<i>Crocodylus rhombifer</i>	EF646304.1
22	<i>Crocodylus siamensis</i>	EF646308.1
23	<i>Gavialis gangeticus</i>	EF646318.1
24	<i>Gavialis gangeticus</i>	EU737935.1
25	<i>Mecistops cataphractus</i>	EF646315.1
26	<i>Melanosuchus niger</i>	EF646300.1
27	<i>Osteolaemus tetraspis</i>	EF646316.1
28	<i>Paleosuchus palpebrosus</i>	EF646301.1
29	<i>Paleosuchus trigonatus</i>	EF646302.1
30	<i>Tomistoma schlegelii</i>	EF646317.1

Mammals	Accession	
1	<i>Ailuropoda melanoleuca</i>	U56638.1
2	<i>Ailurus fulgens</i>	U56639.1
3	<i>Bos taurus</i>	NM_001046607.1
4	<i>Bos taurus</i>	X97914.1
5	<i>Canis lupus</i>	NM_001002975.1
6	<i>Cavia porcellus</i>	AB012097.1
7	<i>Equus caballus</i>	NM_001081787.1
8	<i>Felis catus</i>	NM_001009828.1
9	<i>Helarctos malayanus</i>	AF002240.1
10	<i>Homo sapiens</i>	AF400438.1
11	<i>Homo sapiens</i>	AY656701.1
12	<i>Homo sapiens</i>	M37762.1
13	<i>Homo sapiens</i>	X60201.1
14	<i>Homo sapiens</i>	M61176.1
15	<i>Homo sapiens</i>	BC029795.1
16	<i>Homo sapiens</i>	NM_001143808.1
17	<i>Homo sapiens</i>	AY054393.2
18	<i>Homo sapiens</i>	NM_001143805.1
19	<i>Homo sapiens</i>	AY054396.2
20	<i>Homo sapiens</i>	NM_001143809.1
21	<i>Homo sapiens</i>	AY054399.2
22	<i>Homo sapiens</i>	NM_001143812.1
23	<i>Homo sapiens</i>	EF689013.1
24	<i>Homo sapiens</i>	EF689017.1
25	<i>Homo sapiens</i>	AY054397.2
26	<i>Homo sapiens</i>	NM_001143807.1
27	<i>Homo sapiens</i>	AY054400.2
28	<i>Homo sapiens</i>	NM_170734.3
29	<i>Homo sapiens</i>	NM_001143813.1
30	<i>Homo sapiens</i>	AY054394.2

44	<i>Trachemys scripta elegans</i>	HM055376.1	31	<i>Homo sapiens</i>	NM_170733.3
45	<i>Trachemys scripta elegans</i>	HM055374.1	32	<i>Homo sapiens</i>	NM_001143806.1
46	<i>Trachemys scripta elegans</i>	HM055372.1	33	<i>Homo sapiens</i>	NM_001143810.1
47	<i>Trachemys scripta elegans</i>	HM055375.1	34	<i>Homo sapiens</i>	NM_170732.4
48	<i>Trachemys scripta elegans</i>	HM055373.1	35	<i>Homo sapiens</i>	NM_001709.4
49	<i>Trionyx triunguis</i>	HQ012595.1	36	<i>Homo sapiens</i>	NM_001143811.1
50	<i>Trionyx triunguis</i>	HQ012593.1	37	<i>Homo sapiens</i>	AY054392.2
51	<i>Trionyx triunguis</i>	HQ012596.1	38	<i>Homo sapiens</i>	NM_170731.4
52	<i>Trionyx triunguis</i>	HQ012594.1	39	<i>Homo sapiens</i>	NM_001143816.1
53	<i>Trionyx triunguis</i>	HQ012592.1	40	<i>Homo sapiens</i>	EF689010.1
			41	<i>Homo sapiens</i>	NM_170735.5
			42	<i>Homo sapiens</i>	EF689009.1
			43	<i>Lipotes vexillifer</i>	AY700119.1
			44	<i>Mesocricetus auratus</i>	FJ645258.1
			45	<i>Mus musculus</i>	AF459642.1
			46	<i>Mus musculus</i>	X55573.1
			47	<i>Mus musculus</i>	BC034862.1
			48	<i>Mus musculus</i>	EF125682.1
			49	<i>Mus musculus</i>	AY231132.1
			50	<i>Mus musculus</i>	AY057912.1
			51	<i>Pan troglodytes</i>	NM_001012441.1
			52	<i>Procyon lotor</i>	AF003188.1
			53	<i>Rattus norvegicus</i>	AY176065.1
			54	<i>Rattus norvegicus</i>	M61175.1
			55	<i>Rattus norvegicus</i>	M61178.1
			56	<i>Rattus norvegicus</i>	BC087634.1
			57	<i>Rattus norvegicus</i>	X67108.1
			58	<i>Rattus norvegicus</i>	EF125687.1
			59	<i>Rattus norvegicus</i>	EF125688.1
			60	<i>Selenarctos thibetanus</i>	DQ093584.1
			61	<i>Spermophilus citellus</i>	AY646114.1
			62	<i>Sus scrofa</i>	NM_214259.1
			63	<i>Ursus arctos</i>	AF002239.1

Supplementary File S5.3 Neurotrophin-3 (NT-3) sequence sets

Elapidae		Accession		Viperidae		Accession	
1	<i>Bungarus fasciatus</i>	FJ434090.1		1	<i>Agkistrodon contortrix</i>	JN703027.1	
2	<i>Dendroaspis angusticeps</i>	FJ434089.1		2	<i>Azemiops feae</i>	EU390909.1	
3	<i>Elapsoidea semiannulata</i>	FJ434088.1		3	<i>Bothriechis schlegelii</i>	FJ434084.1	
4	<i>Laticauda colubrina</i>	EU390927.1		4	<i>Bothrops asper</i>	EU390910.1	
5	<i>Laticauda colubrina</i>	FJ434091.1		5	<i>Bothrops atrox</i>	DQ469792.1	
6	<i>Micrurus fulvius</i>	EU390929.1		6	<i>Causus defilippi</i>	EU390913.1	
7	<i>Micrurus surinamensis</i>	FJ434092.1		7	<i>Crotalus tigris</i>	GQ334665.1	
8	<i>Naja kaouthia</i>	EU390930.1		8	<i>Daboia russellii</i>	EU390916.1	
9	<i>Notechis scutatus</i>	EU390932.1		9	<i>Lachesis muta</i>	EU390924.1	
				10	<i>Sistrurus catenatus</i>	GQ334686.1	
'Non-front-fanged'		Accession		Typhlopoidea		Accession	
1	<i>Alsophis cantherigerus</i>	FJ434100.1		1	<i>Acutotyphlops kunuaensis</i>	GU902590.1	
2	<i>Amastridium sapperi</i>	GQ334663.1		2	<i>Acutotyphlops sp</i>	GU902629.1	
3	<i>Atractus elaps</i>	GU353273.1		3	<i>Acutotyphlops subocularis</i>	GU902589.1	
4	<i>Atractus wagleri</i>	GQ334664.1		4	<i>Afrottyphlops angolensis</i>	GU902562.1	
5	<i>Calamaria pavementata</i>	FJ434106.1		5	<i>Afrottyphlops bibronii</i>	GU902620.1	
6	<i>Coluber constrictor</i>	EU390914.1		6	<i>Afrottyphlops congestus</i>	GU902618.1	
7	<i>Cryophis hallbergi</i>	GQ334666.1		7	<i>Afrottyphlops fornasinii</i>	GU902617.1	
8	<i>Cryophis hallbergi</i>	GU353276.1		8	<i>Afrottyphlops lineolatus</i>	GU902621.1	
9	<i>Diadophis punctatus</i>	EU390917.1		9	<i>Afrottyphlops punctatus</i>	GU902567.1	
10	<i>Diadophis punctatus</i>	FJ434098.1		10	<i>Ramphotyphlops diversus</i>	GU902582.1	
11	<i>Diadophis punctatus</i>	GU353272.1		11	<i>Ramphotyphlops endoterus</i>	GU902570.1	
12	<i>Dipsas catesbyi</i>	GU353277.1		12	<i>Ramphotyphlops ganei</i>	GU902583.1	
13	<i>Dipsas pratti</i>	GQ334667.1		13	<i>Ramphotyphlops guentheri</i>	GU902575.1	
14	<i>Grayia ornata</i>	FJ434103.1		14	<i>Ramphotyphlops howi</i>	GU902585.1	
15	<i>Hapsidophrys smaragdina</i>	FJ434104.1		15	<i>Ramphotyphlops kimberleyensis</i>	GU902577.1	
16	<i>Heterodon platirhinus</i>	EU390921.1		16	<i>Ramphotyphlops ligatus</i>	GU902576.1	
17	<i>Heterodon platirhinus</i>	GU353271.1		17	<i>Ramphotyphlops pinguis</i>	GU902586.1	
18	<i>Homalopsis buccata</i>	EU390922.1		18	<i>Ramphotyphlops splendidus</i>	GU902587.1	
19	<i>Homalopsis buccata</i>	FJ434087.1		19	<i>Ramphotyphlops troglodytes</i>	GU902588.1	
20	<i>Hypsiglena affinis</i>	GU353278.1		20	<i>Megatyphlops mucroso</i>	GU902560.1	
21	<i>Hypsiglena chlorophaea</i>	FJ455195.1		21	<i>Megatyphlops schlegelii</i>	GU902619.1	
22	<i>Hypsiglena chlorophaea</i>	FJ455198.1		22	<i>Ramphotyphlops acuticauda</i>	GU902554.1	
23	<i>Hypsiglena jani</i>	FJ455193.1		23	<i>Ramphotyphlops albiceps</i>	GU902555.1	
24	<i>Hypsiglena ochrorhyncha</i>	FJ455199.1		24	<i>Ramphotyphlops australis</i>	GU902580.1	
25	<i>Hypsiglena ochrorhyncha</i>	FJ455200.1		25	<i>Ramphotyphlops bicolor</i>	GU902581.1	
26	<i>Hypsiglena ochrorhyncha</i>	FJ455201.1		26	<i>Ramphotyphlops bituberculatus</i>	GU902574.1	
27	<i>Hypsiglena ochrorhyncha</i>	FJ455202.1		27	<i>Ramphotyphlops braminus</i>	GU902556.1	
28	<i>Hypsiglena slevini</i>	FJ455191.1		28	<i>Ramphotyphlops grypus</i>	GU902584.1	
29	<i>Hypsiglena sp.</i>	FJ455194.1		29	<i>Ramphotyphlops lineatus</i>	GU902557.1	
30	<i>Hypsiglena torquata</i>	FJ455192.1		30	<i>Ramphotyphlops longissimus</i>	GU902579.1	
31	<i>Imantodes cenchoa</i>	EU390923.1		31	<i>Ramphotyphlops pilbarensis</i>	GU902571.1	
32	<i>Imantodes cenchoa</i>	FJ455187.1		32	<i>Ramphotyphlops polygrammicus</i>	GU902591.1	
33	<i>Imantodes cenchoa</i>	GQ334668.1		33	<i>Ramphotyphlops unguirostris</i>	GU902578.1	
34	<i>Imantodes cenchoa</i>	GQ334669.1		34	<i>Ramphotyphlops waitii</i>	GU902573.1	
35	<i>Imantodes inornatus</i>	GU353279.1		35	<i>Rhinotyphlops feae</i>	GU902558.1	
36	<i>Lampropeltis getula</i>	EU390925.1		36	<i>Rhinotyphlops lalandei</i>	GU902559.1	
37	<i>Lamprophis fuliginosus</i>	EU390926.1		37	<i>Rhinotyphlops newtoni</i>	GU902561.1	

38	<i>Lamprophis fuliginosus</i>	FJ434094.1	38	<i>Typhlops agoralionis</i>	GU902592.1
39	<i>Leioheterodon madagascariensis</i>	FJ434093.1	39	<i>Typhlops anchaurus</i>	GU902593.1
40	<i>Leptodeira annulata</i>	FJ434099.1	40	<i>Typhlops anousius</i>	GU902615.1
41	<i>Leptodeira annulata</i>	GQ334670.1	41	<i>Typhlops arator</i>	GU902594.1
42	<i>Leptodeira annulata</i>	GQ334671.1	42	<i>Typhlops arenarius</i>	GU902624.1
43	<i>Leptodeira annulata</i>	GQ334672.1	43	<i>Typhlops brongersmianus</i>	GU902563.1
44	<i>Leptodeira bakeri</i>	GQ334673.1	44	<i>Typhlops capitulatus</i>	GU902595.1
45	<i>Leptodeira frenata</i>	FJ810242.1	45	<i>Typhlops catapontus</i>	GU902596.1
46	<i>Leptodeira maculata</i>	GQ334674.1	46	<i>Typhlops caymanensis</i>	GU902597.1
47	<i>Leptodeira nigrofasciata</i>	GQ334681.1	47	<i>Typhlops contorhinus</i>	GU902616.1
48	<i>Leptodeira punctata</i>	GQ334682.1	48	<i>Typhlops dominicanus</i>	GU902598.1
49	<i>Leptodeira septentrionalis</i>	FJ455188.1	49	<i>Typhlops elegans</i>	GU902564.1
50	<i>Leptodeira septentrionalis</i>	GQ334676.1	50	<i>Typhlops eperopeus</i>	GU902614.1
51	<i>Leptodeira septentrionalis</i>	GQ334677.1	51	<i>Typhlops geotomus</i>	GU902599.1
52	<i>Leptodeira septentrionalis</i>	GQ334678.1	52	<i>Typhlops granti</i>	GU902600.1
53	<i>Leptodeira septentrionalis</i>	GQ334675.1	53	<i>Typhlops hedraeus</i>	GU902565.1
54	<i>Leptodeira septentrionalis</i>	GQ334679.1	54	<i>Typhlops hypomethes</i>	GU902601.1
55	<i>Leptodeira splendida</i>	GQ334680.1	55	<i>Typhlops jamaicensis</i>	GU902602.1
56	<i>Liophis lineatus</i>	DQ469793.1	56	<i>Typhlops lumbricalis</i>	GU902603.1
57	<i>Lycophidion capense</i>	JN703031.1	57	<i>Typhlops mirus</i>	GU902566.1
58	<i>Mehelya capensis</i>	FJ434096.1	58	<i>Typhlops monastus</i>	GU902604.1
59	<i>Natrix natrix</i>	EU390931.1	59	<i>Typhlops naugus</i>	GU902605.1
60	<i>Ninia atrata</i>	GQ334683.1	60	<i>Typhlops notorachius</i>	GU902606.1
61	<i>Oxyrhopus petola</i>	GQ334684.1	61	<i>Typhlops pammece</i>	GU902628.1
62	<i>Pareas hamptoni</i>	EU390933.1	62	<i>Typhlops platycephalus</i>	GU902607.1
63	<i>Phyllorhynchus decurtatus</i>	FJ434105.1	63	<i>Typhlops reticulatus</i>	GU902568.1
64	<i>Psammophylax variabilis</i>	FJ434097.1	64	<i>Typhlops richardi</i>	GU902608.1
65	<i>Pseudoleptodeira latifasciata</i>	FJ455190.1	65	<i>Typhlops rostellatus</i>	GU902609.1
66	<i>Pseudoxenodon bambusicola</i>	FJ434101.1	66	<i>Typhlops schwartzi</i>	GU902610.1
67	<i>Rhadinaea fulvivittis</i>	GU353275.1	67	<i>Typhlops sp</i>	GU902630.1
68	<i>Sibon nebulatus</i>	FJ455189.1	68	<i>Typhlops sulcatus</i>	GU902611.1
69	<i>Sibon nebulatus</i>	GQ334685.1	69	<i>Typhlops sylleptor</i>	GU902612.1
70	<i>Thamnophis marcianus</i>	EU390935.1	70	<i>Typhlops syntherus</i>	GU902613.1
71	<i>Trachyboa boulengeri</i>	EU390936.1	71	<i>Typhlops vermicularis</i>	GU902569.1
72	<i>Trimorphodon biscutatus</i>	EU390937.1	72	<i>Xenotyphlops grandidier</i>	GU902627.2
73	<i>Xenochrophis flavipunctatus</i>	FJ434102.1	73	<i>Xenotyphlops sp</i>	GU902626.2
74	<i>Xenochrophis piscator</i>	EU390941.1			

Boidae		Accession	Anguimorpha		Accession
1	<i>Acrantophis dumerili</i>	AY988049.1	1	<i>Abronia graminea</i>	JQ844947.1
2	<i>Apodora papuana</i>	FJ434076.1	2	<i>Anguis fragilis</i>	JQ844948.1
3	<i>Boa constrictor</i>	AY988047.1	3	<i>Anniella pulchra</i>	GU456008.1
4	<i>Boa constrictor occidentalis</i>	HQ399534.1	4	<i>Barisia imbricata</i>	JQ844944.1
5	<i>Calabaria reinhardtii</i>	AY988058.1	5	<i>Celestus enneagrammus</i>	GU456009.1
6	<i>Calabaria reinhardtii</i>	EU390911.1	6	<i>Diploglossus delasagra</i>	JQ844945.1
7	<i>Candoia carinata</i>	AY988048.1	7	<i>Elgaria coerulea</i>	JQ844949.1
8	<i>Candoia carinata</i>	FJ434077.1	8	<i>Elgaria multicarinata</i>	GU456010.1
9	<i>Charina bottae</i>	AY988059.1	9	<i>Gerrhonotus infernalis</i>	JQ844950.1
10	<i>Charina trivirgata</i>	DQ465578.1	10	<i>Heloderma horridum</i>	GU456011.1
11	<i>Corallus caninus</i>	AY988044.1	11	<i>Heloderma suspectum</i>	FJ434061.1
12	<i>Corallus hortulanus</i>	HQ399535.1	12	<i>Heloderma suspectum</i>	GU456012.1
13	<i>Epicrates alvarezi</i>	HQ399531.1	13	<i>Lanthanotus borneensis</i>	GU456015.1

14	<i>Epicrates angulifer</i>	HQ399533.1
15	<i>Epicrates assisi</i>	HQ399529.1
16	<i>Epicrates cenchria</i>	AY988045.1
17	<i>Epicrates cenchria</i>	HQ399528.1
18	<i>Epicrates chrysogaster</i>	JF812171.1
19	<i>Epicrates chrysogaster</i>	JF812172.1
20	<i>Epicrates striatus</i>	DQ465554.1
21	<i>Eryx colubrinus</i>	DQ465569.1
22	<i>Eryx colubrinus</i>	EU390919.1
23	<i>Eryx conicus</i>	AY988057.1
24	<i>Eunectes murinus</i>	HQ399527.1
25	<i>Eunectes notaeus</i>	AY988046.1
26	<i>Eunectes notaeus</i>	HQ399526.1
27	<i>Sanzinia madagascariensis</i>	AY988050.1

	Pythonidae	Accession
1	<i>Aspidites melanocephalus</i>	DQ465558.1
2	<i>Aspidites melanocephalus</i>	EU390908.1
3	<i>Morelia spilota</i>	AY988052.1
4	<i>Python reticulatus</i>	FJ434074.1
5	<i>Liasis savuensis</i>	FJ434075.1

	Iguania	Accession
1	<i>Anolis carolinensis</i>	EU390900.1
2	<i>Anolis carolinensis</i>	XM_003221366.1
3	<i>Basiliscus plumifrons</i>	AY987998.1
4	<i>Brachylophus fasciatus</i>	AY988009.1
5	<i>Brachylophus fasciatus</i>	JF804533.1
6	<i>Chalarodon madagascariensis</i>	AY988001.1
7	<i>Chalarodon madagascariensis</i>	JF804536.1
8	<i>Conolophus pallidus</i>	HM352521.1
9	<i>Conolophus subcristatus</i>	HM352522.1
10	<i>Crotaphytus collaris</i>	AY987997.1
11	<i>Crotaphytus collaris</i>	JF804542.1
12	<i>Cyclura carinata</i>	HM352524.1
13	<i>Cyclura nubila</i>	FJ434062.1
14	<i>Cyclura pinguis</i>	GQ853278.1
15	<i>Cyclura ricordi</i>	HM352523.1
16	<i>Dipsosaurus dorsalis</i>	JF804545.1
17	<i>Enyalioides laticeps</i>	GU456004.1
18	<i>Gambelia wislizenii</i>	EU108024.1
19	<i>Gambelia wislizenii</i>	JF804548.1
20	<i>Iguana iguana</i>	HM352529.1
21	<i>Iguana iguana</i>	HM352530.1
22	<i>Leiocephalus barahonensis</i>	JF804551.1
23	<i>Leiosaurus catamarcensis</i>	JF804553.1
24	<i>Liolaemus bellii</i>	JF804554.1
25	<i>Liolaemus elongatus</i>	JN703030.1
26	<i>Liolaemus pictus</i>	AY988003.1
27	<i>Morunasaurus annularis</i>	JF804556.1
28	<i>Oplurus cuvieri</i>	AY988000.1

14	<i>Pseudopus apodus</i>	GU456007.1
15	<i>Pseudopus apodus</i>	JQ844946.1
16	<i>Shinisaurus crocodilurus</i>	GU456013.1
17	<i>Shinisaurus crocodilurus</i>	JQ844951.1
18	<i>Varanus acanthurus</i>	GU456016.1
19	<i>Varanus acanthurus</i>	JQ844905.1
20	<i>Varanus albigularis</i>	JQ844940.1
21	<i>Varanus baritji</i>	JQ844906.1
22	<i>Varanus brevicauda</i>	JQ844907.1
23	<i>Varanus bushi</i>	JQ844908.1
24	<i>Varanus caudolineatus</i>	JQ844909.1
25	<i>Varanus doreanus</i>	JQ844941.1
26	<i>Varanus dumerilii</i>	JQ844942.1
27	<i>Varanus eremius</i>	JQ844910.1
28	<i>Varanus exanthematicus</i>	GU456017.1
29	<i>Varanus exanthematicus</i>	JQ844911.1
30	<i>Varanus giganteus</i>	JQ844912.1
31	<i>Varanus gilleni</i>	JQ844913.1
32	<i>Varanus glauerti</i>	JQ844914.1
33	<i>Varanus glebopalma</i>	JQ844915.1
34	<i>Varanus gouldii</i>	JQ844916.1
35	<i>Varanus indicus</i>	JQ844917.1
36	<i>Varanus jobiensis</i>	JQ844938.1
37	<i>Varanus keithhornei</i>	JQ844918.1
38	<i>Varanus kingorum</i>	JQ844919.1
39	<i>Varanus komodoensis</i>	JQ844920.1
40	<i>Varanus mertensi</i>	JQ844921.1
41	<i>Varanus mitchelli</i>	JQ844922.1
42	<i>Varanus niloticus</i>	JQ844923.1
43	<i>Varanus panoptes</i>	JQ844924.1
44	<i>Varanus panoptes</i>	JQ844925.1
45	<i>Varanus pilbarensis</i>	JQ844926.1
46	<i>Varanus prasinus</i>	JQ844927.1
47	<i>Varanus primordius</i>	JQ844928.1
48	<i>Varanus rosenbergi</i>	JQ844929.1
49	<i>Varanus rudicollis</i>	JQ844943.1
50	<i>Varanus salvadorii</i>	JQ844930.1
51	<i>Varanus salvator</i>	EU390902.1
52	<i>Varanus salvator</i>	JQ844931.1
53	<i>Varanus scalaris</i>	JQ844932.1
54	<i>Varanus semiremex</i>	JQ844933.1
55	<i>Varanus spenceri</i>	JQ844934.1
56	<i>Varanus storri</i>	JQ844935.1
57	<i>Varanus timorensis</i>	JQ844936.1
58	<i>Varanus tristis</i>	JQ844937.1
59	<i>Varanus varius</i>	JQ844939.1
60	<i>Xenosaurus grandis</i>	GU456014.1
61	<i>Xenosaurus platyceps</i>	EU390901.1

29	<i>Oplurus cyclurus</i>	GU456006.1
30	<i>Petrosaurus mearnsi</i>	JF804557.1
31	<i>Phrynosoma cornutum</i>	AY988004.1
32	<i>Phrynosoma platyrhinos</i>	JF804559.1
33	<i>Phymaturus calcogaster</i>	JX969565.1
34	<i>Phymaturus ceii</i>	JX969566.1
35	<i>Phymaturus delheyi</i>	JX969582.1
36	<i>Phymaturus dorsimaculatus</i>	JX969596.1
37	<i>Phymaturus etheridgei</i>	JX969564.1
38	<i>Phymaturus excelsus</i>	JX969567.1
39	<i>Phymaturus extrilidus</i>	JX969605.1
40	<i>Phymaturus felixi</i>	JX969578.1
41	<i>Phymaturus felixi</i>	JX969579.1
42	<i>Phymaturus indistinctus</i>	JX969568.1
43	<i>Phymaturus laurenti</i>	JX969595.1
44	<i>Phymaturus mallimaccii</i>	JX969597.1
45	<i>Phymaturus manuelae</i>	JX969569.1
46	<i>Phymaturus nevadoi</i>	JX969570.1
47	<i>Phymaturus palluma</i>	JF804560.1
48	<i>Phymaturus palluma</i>	JX969598.1
49	<i>Phymaturus patagonicus</i>	JX969571.1
50	<i>Phymaturus payunia</i>	JX969572.1
51	<i>Phymaturus punae</i>	JX969599.1
52	<i>Phymaturus querque</i>	JX969604.1
53	<i>Phymaturus roigorum</i>	JX969600.1
54	<i>Phymaturus sitesi</i>	JX969584.1
55	<i>Phymaturus somuncurensis</i>	JX969573.1
56	<i>Phymaturus sp.</i>	JX969614.1
57	<i>Phymaturus spectabilis</i>	JX969574.1
58	<i>Phymaturus spurcus</i>	JX969575.1
59	<i>Phymaturus tenebrosus</i>	JX969576.1
60	<i>Phymaturus verdugo</i>	JX969601.1
61	<i>Phymaturus vociferator</i>	JX969602.1
62	<i>Phymaturus zapalensis</i>	JX969577.1
63	<i>Polychrus marmoratus</i>	JF804564.1
64	<i>Pristidactylus torquatus</i>	JF804565.1
65	<i>Sauromalus ater</i>	HM352525.1
66	<i>Sauromalus ater</i>	JF804568.1
67	<i>Sauromalus australis</i>	HM352526.1
68	<i>Sceloporus horridus</i>	AY988005.1
69	<i>Sceloporus variabilis</i>	JF804569.1
70	<i>Stenocercus guentheri</i>	JF804570.1
71	<i>Tropidurus hispidus</i>	AY987996.1
72	<i>Uma scoparia</i>	JF804574.1
73	<i>Uranoscodon superciliosus</i>	JF804575.1
74	<i>Urostrophus vautieri</i>	JF804576.1
75	<i>Uta stansburiana</i>	JF804577.1

	Crocodyles	Accession
1	<i>Alligator mississippiensis</i>	AJ316234.1
2	<i>Alligator sinensis</i>	EF646331.1
3	<i>Caiman crocodilus</i>	EF646321.1
4	<i>Caiman latirostris</i>	EF646322.1
5	<i>Caiman yacare</i>	EF646323.1
6	<i>Crocodylus acutus</i>	EF646333.1
7	<i>Crocodylus intermedius</i>	EF646334.1
8	<i>Crocodylus johnsoni</i>	EF646325.1
9	<i>Crocodylus mindorensis</i>	EF646326.1
10	<i>Crocodylus moreletii</i>	EF646335.1
11	<i>Crocodylus niloticus</i>	EF646338.1
12	<i>Crocodylus novaeguineae</i>	EF646327.1
13	<i>Crocodylus palustris</i>	EF646337.1
14	<i>Crocodylus porosus</i>	EF646336.1
15	<i>Crocodylus rhombifer</i>	EF646332.1
16	<i>Crocodylus siamensis</i>	EF646324.1
17	<i>Gavialis gangeticus</i>	EF646342.1
18	<i>Mecistops cataphractus</i>	EF646339.1
19	<i>Melanosuchus niger</i>	EF646328.1
20	<i>Osteolaemus tetraspis</i>	EF646340.1
21	<i>Paleosuchus palpebrosus</i>	EF646329.1
22	<i>Paleosuchus trigonatus</i>	EF646330.1
23	<i>Tomistoma schlegelii</i>	EF646341.1

	Mammals	Accession
1	<i>Ailuropoda melanoleuca</i>	XM_002926828.1
2	<i>Bos taurus</i>	BC123576.1
3	<i>Bos taurus</i>	NM_001077988.2
4	<i>Callithrix jacchus</i>	XM_002752241.1
5	<i>Canis lupus</i>	XM_543858.3
6	<i>Canis lupus</i>	XM_003433475.1
7	<i>Cavia porcellus</i>	XM_003463303.1
8	<i>Cricetulus griseus</i>	XM_003496037.1
9	<i>Equus caballus</i>	XM_001495245.3
10	<i>Felis catus</i>	NM_001009367.1
11	<i>Gorilla gorilla</i>	XM_004052539.1
12	<i>Gorilla gorilla</i>	XM_004052540.1
13	<i>Homo sapien</i>	M37763.1
14	<i>Homo sapien</i>	M61180.1
15	<i>Homo sapien</i>	X53655.1
16	<i>Homo sapien</i>	BC069773.1
17	<i>Homo sapien</i>	CR541906.1
18	<i>Homo sapien</i>	BC107075.1
19	<i>Homo sapien</i>	NM_002527.4
20	<i>Homo sapien</i>	NM_001102654.1
21	<i>Homo sapien</i>	AK293895.1
22	<i>Loxodonta africana</i>	XM_003410779.1

	Scinciformata	Accession
1	<i>Acontias meleagris</i>	GU456026.1
2	<i>Amphiglossus splendidus</i>	JN568316.1
3	<i>Brachymeles gracilis</i>	JN568322.1

4	<i>Cordylus namaquensis</i>	AY988010.1	23	<i>Macaca fuscata</i>	AF222683.1
5	<i>Eugongylus rufescens</i>	JN568336.1	24	<i>Macaca mulatta</i>	XM_001118191.2
6	<i>Feylinia polylepis</i>	GU456027.1	25	<i>Monodelphis domestica</i>	XM_001368543.2
7	<i>Mabuya quinquetaeniata</i>	EU108028.1	26	<i>Mus musculus</i>	X53257.1
8	<i>Mabuya quinquetaeniata</i>	JN568320.1	27	<i>Mus musculus</i>	BC065785.1
9	<i>Plestiodon chinensis</i>	EF646344.1	28	<i>Mus musculus</i>	AK132586.1
10	<i>Plestiodon fasciatus</i>	JF804547.1	29	<i>Mus musculus</i>	NM_008742.3
11	<i>Plestiodon laticeps</i>	EU108023.1	30	<i>Mus musculus</i>	NM_001164034.1
12	<i>Scincus scincus</i>	GU456028.1	31	<i>Mus musculus</i>	NM_001164035.1
13	<i>Sphenomorphus simus</i>	EU108031.1	32	<i>Nomascus leucogenys</i>	XM_003273711.1
14	<i>Sphenomorphus solomonis</i>	JN568332.1	33	<i>omascus leucogenys</i>	XM_003273712.1
15	<i>Tiliqua scincoides</i>	JN568330.1	34	<i>Ornithorhynchus</i>	XM_001507068.1
			35	<i>Oryctolagus cuniculus</i>	XM_002712831.1
			36	<i>Ovis aries</i>	XM_004006944.1
			37	<i>Ovis aries</i>	XM_004006945.1
			38	<i>Pan paniscus</i>	XM_003820329.1
			39	<i>Pan troglodytes</i>	XM_522331.3
			40	<i>Papio anubis</i>	XM_003905836.1
			41	<i>Pongo abelii</i>	XM_002822796.1
			42	<i>Rattus norvegicus</i>	M34643.1
			43	<i>Rattus norvegicus</i>	M33968.1
			44	<i>Rattus norvegicus</i>	M61179.1
			45	<i>Rattus norvegicus</i>	NM_031073.3
			46	<i>Rattus norvegicus</i>	NM_001270869.1
			47	<i>Rattus norvegicus</i>	NM_001270868.1
			48	<i>Rattus norvegicus</i>	NM_001270870.1
			49	<i>Saimiri boliviensis</i>	XM_003942177.1
			50	<i>Sarcophilus harrisii</i>	XM_003771238.1

	Turtles	Accession
1	<i>Chelydra serpentina</i>	JN568325.1
2	<i>Chinemys reevesi</i>	EF646343.1
3	<i>Erymnochelys madagascariensis</i>	AY988085.1
4	<i>Hydromedusa tectifera</i>	AY988090.1
5	<i>Pelomedusa subrufa</i>	AY988088.1
6	<i>Peltocephalus dumeriliana</i>	AY988087.1
7	<i>Pelusios gabonensis</i>	AY988089.1
8	<i>Podocnemis erythrocephala</i>	FM165607.1
9	<i>Podocnemis expansa</i>	AY988086.1
10	<i>Podocnemis expansa</i>	JN568331.1
11	<i>Podocnemis lewyana</i>	FM165605.1
12	<i>Podocnemis sextuberculata</i>	FM165608.1
13	<i>Podocnemis unifilis</i>	FM165606.1
14	<i>Podocnemis vogli</i>	FM165609.1
15	<i>Staurotypus triporcatus</i>	AY988091.1