

Supplementary file S1A- Reptile Species Used

	Common Name	Scientific name	Order	Family	Other-ID	GenBank ID
1	<i>Alligator sinensis</i>	Chinese alligator	Crocodylia	Alligatoridae		AVPB000000000.1
2	<i>Alligator mississippiensis</i>	American alligator	Crocodylia	Alligatoridae		LPUU000000000.1
3	<i>Anolis carolinensis</i>	Green Anole	Squamata	Dactyloidae		AAWZ000000000.2
4	<i>Aspidoscelis marmorata</i>		Squamata	Teiidae		
5	<i>Boa constrictor</i>	Red-tailed Boa	Squamata	Boidae		
6	<i>Caiman crocodilus</i>	Spectacled caiman	Crocodylia	Alligatoridae		AY043290.1
7	<i>Ophiophagus hannah</i>	King Cobra	Squamata	Elapidae		AZIM000000000.1
8	<i>Crocodylus porosus</i>	Saltwater crocodile	Crocodylia	Crocodylidae		JRXG000000000.1
9	<i>Crotalus horridus</i>	timber rattlesnake	Squamata	Viperidae		LVCR000000000.1
10	<i>Crotalus mitchellii pyrrhus</i>	Southwestern Speckled Rattlesnake	Squamata	Viperidae		JPMF000000000.1
11	<i>Eublepharis macularius</i>	Leopard Gecko	Squamata	Eublepharidae	DOI10.5524/100246	
12	<i>Gekko japonicus</i>	Schlegel's Japanese Gecko	Squamata	Gekkonidae		LNDG000000000.1
13	<i>Gavialis gangeticus</i>	Gharial	Crocodylia	Gavialidae		JRWT000000000.1
14	<i>Lepidodactylus lugubris</i>	Mourning gecko	Squamata	Gekkonidae		
15	<i>Ophisaurus gracilis</i>	Burmese glass lizard	Squamata	Anguidae	DOI10.5524/100119	
16	<i>Pantherophis guttatus</i>	Corn Snake	Squamata	Colubridae		JTLQ000000000.1
17	<i>Pogona vitticeps</i>	Central bearded dragon	Squamata	Agamidae	DOI10.5524/100166	CEMB000000000.1

	Common Name	Scientific name	Order	Family	Publication	GenBank ID
18	<i>Protobothrops mucrosquamatus</i>	Brown spotted pitviper	Squamata	Viperidae		BCNE00000000.2
19	<i>Python bivittatus</i>	Burmese Python	Squamata	Pythonidae		AEQU00000000.2
20	<i>Shinisaurus crocodilurus</i>	Chinese crocodile lizard	Squamata	Shinisauridae	DOI10.5524/100315	
21	<i>Thamnophis sirtalis</i>	Common garter snake	Squamata	Colubridae		LFLD00000000.1
22	<i>Vipera berus</i>	European Adder	Squamata	Viperidae		JTGP00000000.1

Supplementary file S1B - Mammal Species Used

	Common Name	Scientific name	Order	Family	AMBN	AMEL	ENAM
23	<i>Bos taurus</i>	Domestic cow	Artiodactyla	Bovidae	NM_173988.2	NM_001014984.1	XM_002688339.5
24	<i>Cavia porcellus</i>	Guinea Pig	Rodentia	Caviidae	NM_001173124.1	NM_001172869.1	XM_003467537.2
25	<i>Equus ferus caballus</i>	Horse	Perissodactyla	Equidae	XM_001488980.5	NM_001081827.2	XM_001487894.2
26	<i>Homo sapiens</i>	Human	Primates	Hominidae	NM_016519.5	NM_001142.2	XM_006714056.4
27	<i>Monodelphis domestica</i>	Short-tailed opossum	Didelphimorphia	Didelphidae	XM_007495519.1	XM_016424786.1	XM_007495648.2
28	<i>Mus musculus</i>	House mouse	Rodentia	Muridae	NM_001303431.1	XM_017318357.1	NM_017468.3
29	<i>Ornithorhynchus anatinus</i>	Duck-billed platypus	Monotremata	Ornithorhynchidae	XM_016227739.1	XM_001515065.1	XM_007669232.1
30	<i>Rattus norvegicus</i>	Brown rat	Rodentia	Muridae	NM_012900.1	NM_001271074.1	NM_001106001.1
31	<i>Sus scrofa</i>	Wild boar	Artiodactyla	Suidae	NM_214037.1	NM_213906.1	NM_214241.1
32	<i>Tursiops truncatus</i>	Bottlenose dolphin	Artiodactyla	Delphinidae	XM_019932655.1	XM_019928527.1	XM_019932671.1
33	<i>Ursus maritimus</i>	Polar Bear	Carnivora	Ursidae	XM_008693182.1	XM_008696402.1	XM_008693183.1

Supplementary file S1C - Sequences used for BLAST search

Species	Gene	GenBank ID
Alligator	AMBN	XM_019490838.1
Alligator	ENAM	XM_006257933.2
Alligator	AMEL	XM_014607781.2
Anolis	AMBN	XM_016991134.1
Anolis	ENAM	NM_001291401.1
Anolis	AMEL	XM_003228698.2