

These are electronic appendices to the paper by Kearney & Stuart 2004 Repeated evolution of limblessness and digging heads in worm lizards revealed by DNA from old bones. *Proc. R. Soc. Lond. B* **271**, 1677–1683. (DOI 10.1098/rspb.2004.2771.)

Electronic appendices are refereed with the text. However, no attempt is made to impose a uniform editorial style on the electronic appendices.

## ELECTRONIC APPENDIX A

Oligonucleotide primers used to amplify and sequence squamate nuclear DNA in this study. 'L' and 'H' refer to light and heavy strands, respectively.

Primer	Product	Sequence
L-lizcmos	<i>c-mos</i>	5'-CTAGCTTGGTGTTCATAGACTGG-3'
H-cmosII	<i>c-mos</i>	5'-GCAAATGAGTAGATGTCTGCC-3'
H-cmosIII	<i>c-mos</i>	5'-GGTGATGGCAAATGAGTAGAT-3'
L-230cmos	<i>c-mos</i>	5'-TGTCCCTGCCAATCAGGATAGT-3'
H-450cmos	<i>c-mos</i>	5'-CATCCAAAGTCTCCAATCTTG-3'
L-420cmos	<i>c-mos</i>	5'-ATCTGGATTTAAAACCTGCC-3'
L-RAG1b	RAG-1	5'-TTCCAGCCATTGCATGCTCT-3'
H-snRAG1	RAG-1	5'-ATTGCCAATGTCACAGTGCA-3'
L-snRAG1	RAG-1	5'-GGATGGGAGATGTCAGTGAGAA-3'
H-RAG1b	RAG-1	5'-GACTGCCTGGCATTTCATTTT-3'
L-140RAG1	RAG-1	5'-ACGATTTTCGATATGATGCAGCTTTGG-3'
H-311RAG1	RAG-1	5'-TCATGAGCGTGAAGGAGAATCGAAC-3'
L-288 RAG1	RAG-1	5'-CAGCGAAAAGCATGGCTGTGG-3'
H-430RAG1	RAG-1	5'-GTGAGAGTCTCATGATCTGATTCATCTG-3'
H-455RAG1	RAG-1	5'-TGGACTCAGGATGGCTGTGAG-3'
H-470RAG1	RAG-1	5'-TCTCTTTCTGCTACAAGAGGGCT-3'
L-385RAG1	RAG-1	5'-TTGAAGAGAACAAGCCAATTCAGAG-3'
H-603RAG1	RAG-1	5'-TAGAGCCTGAGGCTTCAAGGC-3'

## ELECTRONIC APPENDIX B

Taxa used in this study. CAS = California Academy of Sciences; CG = Carl Gans private collection; FMNH = Field Museum of Natural History; LSUMZ = Louisiana State University Museum of Natural Science; MTD = Museum für Tierkunde, Dresden; NJK = Nathan J. Kley private collection; MVZ = Museum of Vertebrate Zoology.

Family	Taxon	Source	Tissue Type	Year collected, if bone	GenBank No. (c-mos / RAG-1)
Rhineuridae	<i>Rhineura floridana</i>	LSUMZ H-9100	Fresh		AY444021/AY444047
Rhineuridae	<i>Rhineura floridana</i>	CAS 200844	Fresh		AY444022/AY444048
Blanidae	<i>Blanus cinereus</i>	MVZ 232069	Fresh		AY444019/AY444045
Blanidae	<i>Blanus cinereus</i>	GenBank	-		AY234227/not available
Blanidae	<i>Blanus strauchi</i>	NJK Bs 02-1	Fresh		AY444024/AY444050
Bipedidae	<i>Bipes sp.</i>	unvouchered	Fresh		AY444018/AY444044
Bipedidae	<i>Bipes biporus</i>	GenBank	-		AF039482/not available
Trogonophidae	<i>Agamodon anguliceps</i>	CG 2440	Dry bone; 7 ribs	1962	AY444013/AY444040
Trogonophidae	<i>Diplometopon zarudnyi</i>	NJK Dz 02-2	Fresh		AY444023/AY444049
Trogonophidae	<i>Diplometopon zarudnyi</i>	GenBank	-		AF148709/not available
Trogonophidae	<i>Trogonophis wiegmanni</i>	MVZ 162541	Fresh		AY444025/AY444051
Amphisbaenidae	<i>Amphisbaena sp.</i>	LSUMZ H-9099	Fresh		AY444020/AY444046
Amphisbaenidae	<i>Amphisbaena alba</i>	CG 1216	Dry bone; 2 vertebrae, 3 ribs	1958	AY444016/AY444042
Amphisbaenidae	<i>Amphisbaena camura</i>	MTD 43461	Fresh (ethanol-preserved specimen)		AY444026/AY444052
Amphisbaenidae	<i>Anops kingii</i>	CG 2776	Dry bone; 6 vertebrae w/ assoc. ribs	1963	AY444012/AY444039
Amphisbaenidae	<i>Aulura anomala</i>	CG 2766	Dry bone; 3 vertebrae, 6 ribs	1963	AY444015/no sequence
Amphisbaenidae	<i>Chirindia swynnertoni</i>	CG 4037	Dry bone; number not recorded	1969	AY444010/AY444037
Amphisbaenidae	<i>Cynisca leucura</i>	CG 3759	Dry bone; 3 vertebrae w/ assoc. ribs	1968	AY444011/AY444038
Amphisbaenidae	<i>Geocalamus acutus</i>	FMNH 262014	Fresh		AY444017/AY444043
Amphisbaenidae	<i>Leposternon sp.</i>	CG 57177	Dry bone; 3 vertebrae, 6 ribs	date unavailable	AY444014/AY444041
Amphisbaenidae	<i>Monopeltis capensis</i>	FMNH 80030	Wet bone; 3 vertebrae	1957	AY444009/AY444036
Typhlopidae	<i>Ramphotyphlops braminus</i>	FMNH 258665	Fresh		AF544717/AY444062
Loxocemidae	<i>Loxocemus bicolor</i>	NJK Lb 02-1	Fresh		AY444035/AY444061
Dibamidae	<i>Dibamus montanus</i>	FMNH 258662	Fresh		AY444027/AY444053
Scincidae	<i>Mabuya multifasciata</i>	FMNH 255530	Fresh		AY444029/AY444055
Anguidae	<i>Ophisaurus gracilis</i>	FMNH 258689	Fresh		AY444030/AY444056
Gekkonidae	<i>Gekko gecko</i>	FMNH 258696	Fresh		AY444028/AY444054