

(A) Putative core promoter of PDE-E1a

	TATA-Box	Putative initiator
P <i>P. molurus</i> (Python)	TTTGTAAAA-----GCAGAAGCACGTTATCTGGAAAATGAGAGTAAGGAGTACCTATCTGATAAAATATCTCTAAAATACATCTCTTTCTAGG	
V <i>P. flavoviridis</i> (Habu)	TCTCTGGCA-----GTAAAAATATATTATTTTGGAGAGGGAAGAAAATGAGAAACTATTTGATAAAACACCTCTAACATGCATCTGCCTTTAGG	
V <i>B. jararaca</i> (Jararaca)	TCTCTGTCATTTtGTTAAAGTAAAAATATATTATTTTGGAGAGGGAAGAAAatgataaaCTATTTGAtaaaacacctcTAACATGCATCTGCCTTTAGG	
V <i>P. mucrosquamatus</i> (TH)	TCTCTGGCA-----GTAAAAATATATTATTTTGGAGAGGGAAGAAAATGAGAAACTATTTGATAAAACACCTCTAACATGCATCTGCCTTTAGG	
V <i>C. viridis</i> (PR)	TCTCTGGCATTtTGTAAAGTAAAAATATATTATTTTGGAGAGGGAAGAAAATGAGAAACTATTTGATAAAACACCTCTAACATGCATCTGCCTTTGGG	
V <i>C. tigris</i> (TR)	TCTCTGGCATTtTGTAAAGTAAAAATATATTATTTTGGAGAGGGAAGAAAATGAGAAACTATTTGATAAAACACCTCTAACATGCATCTGCCTTTGGG	
H <i>M. thanlyinensis</i>	TCTCCAGTGTtTGTAA-AGTAAAGTATATTATCTGGATGGGAGGAAA-----ATATTTGA-----TAACATACATCTGCTTTTAGG	
C <i>T. sirtalis</i> (CGS)	TCTCTGGAATTTTGTAAAG-----TATATTATCTGGTCCAGGAGGAGA-----ATATTTGA-----TAACATGCCTCTGTCTTTAGG	
C <i>P. guttatus</i> (CS)	TCTCTGTCATTTtGTTAAATAAAAAGTATATTATCTGGCACAGGAGGAAA-----ATATTTGA-----TAATATGCATCTGCCTTAAGG	
C <i>P. catenifer</i> (GS)	TCTCTGTCATTTtGTTAAATAAAAAGTATATTATCTGGCACAGGAGGAAA-----ATATTTGA-----TAATATGCATCTGCCTTAAGG	
C <i>P. obsoletus</i> (WRS)	TCTCTGTCTATTtGTAAAAATAAAAAGTATATTATCTGGCACAGGAGGAAA-----ATATTTGA-----TAATATGCATCTGCCTTAAGG	
C <i>T. elegans</i> (WTGS)	TCTCTGGAATTTtGTAAAG-----TATATTATCTGGTCCAGGAGGAGA-----ATATTTGA-----TAACATGCCTCTGTTTTTAGG	
E <i>O. hannah</i> (KC)	TCTCTGTCTATTtGTAAAAATACAGGTATACTATTCTGGTGCAGGAGGAAA-----ATATTTGA-----TAATATGCACCTGCGTTTAGG	
E <i>P. textilis</i> (EBS)	TCTCTGTCTATTtGTAAAAATACAAGTATACTATTCTGGTGCAGGAGGAAA-----ATATTTGA-----TAATATGCACCTGCGTTTAGG	
E <i>N. scutatus</i> (MTS)	TCTCTGTCTATTtGTAAAAATACAAGTATACTATTCTGGTGCAGGAGGAAA-----ATATTTGA-----TAATATGCACCTGCGTTTAGG	
E <i>N. naja</i> (IC)	TCTCTGTCTATTtGTAAAAATACAAGTATACTATTCTGGTGCAGGAGGAAA-----ATATTTGA-----TAATATGCACCTGCACTTTAGG	
Hy <i>H. curtus</i> (SSS)	TCTCTGTCTATTtGTAAAAATACAAGTATACTATTCTGGTGCAGGAGGAAA-----ATATTTGA-----TAATATGCACCTGCGTTTAGG	
Hy <i>H. cyanocinctus</i> (BSS)	TCTCTGTCTATTtGTAAAAATACAAGTATACTATTCTGGTGCAGGAGGAAA-----ATATTTGA-----TAATATGCACCTGCGTTTAGG	

(B) Alternative translation start sites recruited by 3' elongation of PDE-E1a in Dipsadidae and Lamprophiidae

	PDE-E1a	E2
P <i>P. molurus</i> (Python)	GCAACAGAGTGGAGAGATGACCCAGCAGAAG-----	GTTCTTTTCATTTTC
V <i>P. flavoviridis</i> (Habu)	GGAACCAGAGTGGAGAGATGATTACGCAGAAG-----	GTTCTTTTCATTTTC
V <i>P. mucrosquamatus</i> (TH)	GGAACCAGAGTGGAGAGATGATTACGCAGAAG-----	GTTCTTTTCATTTTC
V <i>C. viridis</i> (PR)	GGAACCAGAGTGGAGAGATGATTACGCAGAAG-----	GTTCTTTTCATTTTC
V <i>C. tigris</i> (TR)	GGAACCAGAGTGGAGAGATGATTACGCAGAAG-----	GTTCTTTTCATTTTC
H <i>M. thanlyinensis</i>	GGAACA--GCGGAGAGATGAGTCTGCCGAAG-----	GTTCTTTTCATTTTC
H <i>H. buccata</i> (MWS)	GGAACA--GCTGAGAGATGATTCTGCCGAAG-----	GTTCTTTTCATTTTC
C <i>T. sirtalis</i> (CGS)	GAAACAGAGTGGAGAGATGAGTCTGCAGAAG-----	GTTCTTTTCATTTTC
C <i>P. guttatus</i> (CS)	GGAACAGAGTGGAGAGATGAGTCTGCAGAAG-----	GTTCTTTTCATTTTC
C <i>T. conanti</i> (MK)	GAAACAGAGTGGAGAGATGAGTCTGCAGAAG-----	GTTCTTTTCATTTTC
C <i>T. nigriceps</i> (PBS)	GGAACCAGAGTGGAGAGATGATTACGCAGAAG-----	GTTCTTTTCATTTTC
D <i>C. lineatus</i>	GGAACAGAGTGGAGAGATGAGTCTGCAGAAGGTAAGGCATAGATACCAGGATAGGAAATTTGGGACCAAGATCTGGATCCCACCATGCTAAAATTCTGAAGGACTCATCCAAAGGTTCTTTTCATTTTC	GTTCTTTTCATTTTC
L <i>P. subtaeniatus</i> (WYSS)	GGAACAGAGTAGAGAGACGAGTCTGCAGAAGGTAAGGCATAGACACCAGGATTGGAACCTGGGACCAAGATCTGGATCTCGACCATGCTAAAAGTTCTTAAGGACTCATCCAAAGGTTCTTTTCATTTTC	GTTCTTTTCATTTTC
L <i>P. schokari</i> (SSR)	GGAACAGAGTAGAGAGACGAGTCTGCAGAAGGTAAGGCATAGACACCAG-ATTGGAACCTGGGACCAAGATCTGGATCTCGACCATGCTAAAAGTTCTTAAGGACTCATCCAAAGGTTCTTTTCATTTTC	GTTCTTTTCATTTTC
L <i>M. monspessulanus</i> (MS)	GGAACAGAGTGGAGAAATGAGTCTGCAAAAG-----	GTTCTTTTCATTTTC
E <i>O. hannah</i> (KC)	GGAACA--GTGGAGAGATGATTATGCAGAAT-----	GTTCTTTTCATTTTC
E <i>N. naja</i> (IC)	GGAACA--GTGGAGAGATGTTATGCAGAAG-----	GTTCTTTTCATTTTC
E <i>N. scutatus</i> (MTS)	GGAACA--ATG-----CAGAAG-----	GTTCTTTTCATTTTC
E <i>L. colubrina</i> (YSK)	GGAACA--ATGGAGAGATGATTATGCAGAAG-----	GTTCTTTTCATTTTC
Hy <i>H. curtus</i> (SSS)	GGAACA--ATG-----CAGAAG-----	GTTCTTTTCATTTTC
Hy <i>H. cyanocinctus</i> (BSS)	GGAACA--ATG-----CAGAAG-----	GTTCTTTTCATTTTC

(C) Putative core promoter of PDE-E1b

	TATA-Box	Putative initiator	DPE (Downstream promoter element)
E <i>O. hannah</i> (KC)	GAAGATTTGATATTTAGAAAGAGTGCCATCTTATGGTCAAAAATTTAACTTGTTTTTTTT---AAAGGATACTGTTTCTTAAAGAACTTTAAGG		
E <i>P. textilis</i> (EBS)	GAAGATTCGATATAAC-AAAGAGTTCATCTTGTGG-CAAAAATCTAACTTGTTTTTTTTT---AAAGGATACTGTTTCTTAAAGAACTTTAAGG		
E <i>N. scutatus</i> (MTS)	GAAGATTTGATATAAC-AAAGAGTGCCATCTTGTGGCCAAAAATTTAACTTGTTTTTTTTT---AAAGGATACTGTTTCTTAAAGAACTTTAAGG		
E <i>L. colubrina</i> (YSK)	TGTGATTTGATATAAC-AAAGAGTGCCATCTTGTGGCCAAAAATTTAACTTGTTTTTTTTT---AAAGGATACTGTTTCTTAAAGAACTTTAAGG		
E <i>N. naja</i> (IC)	GAAGATTTAATATAAC-AAAGAGTGCCATCTTATGGTCAAAAATTTAACTTTTTTTTTTT---AAAGGATACTGTTTCTTAAAGAACTTTAAGG		
Hy <i>H. curtus</i> (SSS)	GAAGATTTGAAATAAC-AAAGAGTGCCATCTTGTGGCCAAAAATTTAACTTTGCTTTTTTTTT---AAAGGATATTGTTTCTTAAAGAACTTTAAGG		
Hy <i>H. cyanocinctus</i> (BSS)	GAAGATTTGAAATAAC-AAAGAGTGCCATCTTGTGGCCAAAAATTTAACTTTGCTTTTTTTTT---AAAGGATATTGTTTCTTAAAGAACTTTAAGG		
CSME <i>P. textilis</i> (EBS)	GAAGACTTAGCATAAT-AAAGAGTGCCATCTCAGTT---AAACTCAACTTGTTTTCTTTTAAAAAAC-CTTGTTTCTT---GAAATTGCATG		
CSME <i>L. colubrina</i> (YSK)	GAAGACTTAGCATAAT-AAAGAGTGCCATCTCAGTT---AAACTCAACTTGTTTTCTTTTAAAAAAC-CTTGTTTCTT---GAAATTGCATG		
CSME <i>H. curtus</i> (SSS)	GAAGACTTAGCATAAT-AAAGAGTGCCATCTCAGTT---AAACTCAACTTGTTTTCTTTTAAAAAAC-CTTGTTTCTT---GAAATTGCATG		

Homologous region in the consensus sequence of mobile element DR0148352

Abbreviations
TH: Taiwanese habu, PR: Prairie rattlesnake, TR: Terrestrial rattlesnake, CGS: Common garter snake, CS: Corn snake, GS: Gopher snake, WRS: Western rat snake, WTGS: Western terrestrial garter snake, MK: Milk snake, PBS: Plain black-headed snake, WYSS: Western yellow-bellied sand snake, SSR: Schokari sand racer, MS: Montpellier snake, KC: King cobra, EBS: Eastern brown snake, MTS: Mainland tiger snake, YSK: Yellow-lipped sea krait, IC: India cobra, SSS: Shaw's sea snake and BSS: Blue-banded sea snake. P: Pythonidae, V: Viperidae, H: Homalopsidae, C: Colubridae, E: Elapidae, Hy: Hydrophiidae and CSME: Consensus sequence of mobile element DR0148352.