

(a) Primers used in the present study.

Locus	Primer sequence F.	Primer sequence R.	bp*	Reference
NT3	NT3-F3 ATATTTCTGGCTTTTCTCTGTGGC	NT3-R4 GCGTTTCATAAAAATATTGTTTGACCGG	498	Rivera et. al., (2011).
C-mos	L39 CTGSARYTTTCTYCATCTGT	S78 CCTTGGGTGTGATTTTCTCACCT	700	Rivera et.al.,(2011).
Rag1	RAG1F GCAGCTTTGGTGGCTGCCCT	RAG1R ACAGTGCAGTGCATCTATTGAAGGC	678	Reynolds et.al.,(2013).
BDNF	BDNF-F GACCATCCTTTTCTKACTATGGTTATTTCACTT	BDNF-R CTATCTTCCCTTTTAATGGTCAGTGTACAAAC	671	Noonan and Chippindale(2006).
ODC	OD-F GACTCCAAAGCAGTTTGTCTGTCTCAGTGT	OD-R TCTTCAGAGCCAGGGAAGCCACCACCAAT	513	Friesen et al., (1999).
Cytb	L144910 GACCTGTGATMTGAAAACAYCGTTGT	H16064 CTTTGGTTTACAAGAACAATGCTTTA	1113	Rivera et. al.,(2011)
Cytb	Cytb1F CAGTAGCAACCAANATCTCA	Cytb1R GGAGATAATTCCGAATGGNAG	500	Murtskhvaladze 2021

* Base pairs in the amplified fragment.

(b) Sequences used in this study (obtained from the available tissue samples, marked by, and downloaded from GenBank).

Species	<i>Boa constrictor</i>	<i>E. murinus</i>	<i>E. notaeus</i>	<i>E. deschauenseei</i>	<i>E. beniensis</i>
Cyt-b*	1 (F02)	2 (A01, H01)	1 (D03)	11 (A02,B01-02, C02,D02,E01- 02,F01,G01)	2 (H03,G02)
BDNF*	1 (F02)	2 (A01, H01)	1 (B03)	10 (A02,B01-02, C01- 02,D02,E01-02,F01, G01)	1 (H03)

RAG1*	1 (F02)	2 (A01, H01)	2 (E03,F03)	9 (A02,B01-02, C01-02,D02,E02,F01,G01)	0
NT3*	1 (F02)	2 (A01, H01)	3 (D03,F03,E03)	11(A02,B01-02,C01-02,D01-02,E01-02,F01,G01)	2 (H03,G02)
ODC*	1 (F02)	1 (H01)	0	9 (A02,B01-02, C01-02,D02,E02,F01,G01)	2 (H03,G02)
C-mos*	1 (F02)	1 (H01)	1 (D03)	7 (A02,B01-02, C01-02,D02,F01)	0
Cyt-b	3 (KF576726-727, EU273654)	3 (U69808 - 809, KC329952)	3 (KC329953, U69810)		
BDNF	2 (KF576914, KF576819)	1 (KC330075)	4 (KF576916- 917, KC330076, AY988029)		
RAG1	1 (KF576908)	2 (KC330042, HQ399517)	5 (KF576749- 750, HQ399516, AY988063, KC330043)		
NT3	2 (AY988047, KC330109)	3 (HQ399527, JX576187, KC330140)	3 (KC330141, HQ399526, AY988046)		
ODC	1 (DQ465531)		1 (DQ465530)		
C-mos	1 (HQ399543)	1 (HQ399537)	1 (HQ399536)		

* new sequences obtained within this study.