

**Table S1.** List of sequences used for inset, backbone phylogeny in Fig. 2. Museum abbreviations as follows: ADS, Anslem de Silva field series; AK/AK-R Akshay Khandekar field series; AMB, Aaron M. Bauer field series (Sri Lankan specimens deposited in National Museum, Colombo); BNHS, Bombay Natural History Society, Mumbai; CES/ CESG/ CESL/ ESV, Centre for Ecological Sciences, Bangalore; IAG, Ishan Agarwal field series; JB, Jon Boone private collection; JS, Jay Sommers private collection; KU, University of Kansas Natural History Museum; LLG, L. Lee Grismer field series; NCBS/ NRC, National Centre for Biological Sciences, Bangalore; VG, Varad Giri field series.

Species	Voucher	GenBank Accession No.	Locality	Group
<i>Hemidactylus chipkali</i>	CESG322	MK569808	India, Madhya Pradesh, Hoshangabad, Pachmarhi	<i>brookii</i>
<i>Hemidactylus cf. gleadowi</i> 1	CES11014	MH454761	India, Karnataka, Bagalkot	<i>brookii</i>
<i>Hemidactylus cf. gleadowi</i> 2	IAG058	MK569811	India, Maharashtra, Buldhana, near Lokhanda	<i>brookii</i>
<i>Hemidactylus imbricatus</i>	JS11	EU268353	Pakistan, pet-trade	<i>brookii</i>
<i>Hemidactylus mahonyi</i>	BNHS 2597	OM912578	India, Karnataka, Bellary, Joga	<i>brookii</i>
<i>Hemidactylus malcolmsmithi</i>	CES11065	MH454765	India, Himachal Pradesh, Hamirpur, Sujampur	<i>brookii</i>
<i>Hemidactylus murrayi</i>	LLG6754	EU268366	Malaysia, Pulau Pinang, Empangon Air Hitam,	<i>brookii</i>
<i>Hemidactylus parvimaculatus</i>	AMB7466	GQ458056	Sri Lanka, Mampuriya,	<i>brookii</i>
<i>Hemidactylus parvimaculatus</i>	AMB7475	GQ458055	Sri Lanka, Kandy	<i>brookii</i>
<i>Hemidactylus quartziticolus</i> sp. nov.	NRC-AA-1261	OQ660175	India, Tamil Nadu, Thoothukudi, Kurumalai	<i>brookii</i>
<i>Hemidactylus quartziticolus</i> sp. nov.	NRC-AA-1262	OQ660176	India, Tamil Nadu, Thoothukudi, Kurumalai	<i>brookii</i>
<i>Hemidactylus quartziticolus</i> sp. nov.	NRC-AA-1257	OQ660177	India, Tamil Nadu, Thoothukudi, Vallanadu	<i>brookii</i>
<i>Hemidactylus quartziticolus</i> sp. nov.	NRC-AA-1256	OQ660178	India, Tamil Nadu, Thoothukudi, Vallanadu	<i>brookii</i>
<i>Hemidactylus sankariensis</i>	NCBS-BH682	MK569844	India, Tamil Nadu, Erode, Sankari	<i>brookii</i>
<i>Hemidactylus srikanthani</i>	BNHS 2640	OM912580	India, Karnataka, Tumkur, Devarayanurga	<i>brookii</i>
<i>Hemidactylus reticulatus</i>	CES13062	MH454767	India, Karnataka, Chamrajnagar , Kollegal	<i>brookii</i>
<i>Hemidactylus treutleri</i>	CES14216	MH454770	India, Andhra Pradesh, Hyderabad, Gaganpahad	<i>brookii</i>
<i>Hemidactylus varadgirii</i>	VG349	MK569849	India, Maharashtra, Sindhudurg, Amboli	<i>brookii</i>
<i>Hemidactylus xericolus</i>	CES16170	MN482235	India, Telangana, Mahbubnagar, near Guddeguda	<i>brookii</i>
<i>Hemidactylus flaviviridis</i>	KUZ R72238	AB937992	Japan, Chiba	<i>flaviviridis</i>
<i>Hemidactylus giganteus</i>	JB 03	HM559632	India (captive specimen)	<i>flaviviridis</i>
<i>Hemidactylus leschenaultii</i>	AMB7443	HM559635	Sri Lanka, Polonnaruwa	<i>flaviviridis</i>
<i>Hemidactylus frenatus</i>	AMB7420	EU268391	Sri Lanka, Rathegala	<i>frenatus</i>
<i>Hemidactylus frenatus</i>	LLG 4871	GQ375289	Malaysia, Pahang, Bukit Bakong	<i>frenatus</i>
<i>Hemidactylus depressus</i>	ADS29A	HM559621	Sri Lanka, Galkotte	<i>prashadi</i>
<i>Hemidactylus graniticolus</i>	AK348	MK569812	India, Karnataka, Bangalore Rural, Harohalli	<i>prashadi</i>
<i>Hemidactylus kolliensis</i>	BNHS 2537	MK569825	India, Tamil Nadu, Dharmapuri, Kollimalai Ghat	<i>prashadi</i>
<i>Hemidactylus maculatus</i>	AK393	MK569831	India, Maharashtra, Ratnagiri, Guhagar	<i>prashadi</i>
<i>Hemidactylus prashadi</i>	JB02	HM559642	India, pet-trade	<i>prashadi</i>
<i>Hemidactylus scabriceps</i>	CES12008	MH454769	India, Tamil Nadu, Tirunelveli, Tirunelveli	<i>prashadi</i>
<i>Hemidactylus sushilduttai</i>	CES11079/NCBS-AU157	MK569852	India, Andhra Pradesh, Visakhapatnam , Simhachalam	<i>prashadi</i>
<i>Hemidactylus vanam</i>	CES17/065	MG711532	India, Tamil Nadu, Theni, Meghamalai	<i>prashadi</i>
<i>Hemidactylus whitakeri</i>	NCBS-AU713	MH666066	India, Kodalagurki village, Bangalore rural district, Karnataka, India	<i>prashadi</i>
<i>Cyrtodactylus chamba</i>	BNHS 2331 (CES11/1291)	KM255191	India, Himachal Pradesh, Chamba	outgroup
<i>Cyrtodactylus srilekhae</i>	ESV101 (CES09/1432)	KX698082	India, Karnataka, Bangalore Rural	outgroup