

**Table S2. List of specimens that were morphologically and/or acoustically examined by the authors in this study.** List of museum includes: IEBR (Institute of Ecology and Biological Resources, Hanoi, Vietnam), AMNH (American Museum of Natural History, New York, USA), FMNH (Field Museum of Natural History, Chicago, USA), NENU (Northeast Normal University, Jilin, China), GNU-CLS (College of Life Sciences, Guangxi Normal University, Guilin, China) and FES-NUoL (Faculty of Environmental Sciences, National University of Laos, Vientiane, Laos).

Museum	Catalogue/Field No.	Taxon (original ID)	Location	Map	Sex	FA (mm)	Skull	FmaxE	ChiroVoxID *
AMNH	56890 (holotype)	<i>R. rex</i>	C: Sichuan	C2	♀	58.5	x		
AMNH	56970	<i>R. rex</i>	C: Sichuan	C2	♀	58.1			
AMNH	56893	<i>R. rex</i>	C: Sichuan	C2	♂	60	x		
AMNH	84891	<i>R. rex</i>	C: Sichuan	C2	♂	58			
FMNH	33920	<i>R. rex</i>	C: Sichuan	C2	♂	56.75	x		
FMNH	39548	<i>R. rex</i>	C: Kweichow	C7	♀	57.61	x		
GNU-CLS	Released	<i>R. rex</i>	C: Guangxi, Ma Lan Dong	C11	♂	53.8		25.5 kHz	A004488
GNU-CLS	NF.141109.1	<i>R. rex</i>	C: Guangxi, Xiao Dong, Dan Dong	C11	♀	56.5		25.2 kHz	A004489
GNU-CLS	NF.151109.4	<i>R. rex</i>	C: Guangxi, Ma San Dong	C11	♂	59.3			
GNU-CLS	Released	<i>R. rex</i>	C: Guangxi, Ma San Dong	C11	♀	57.9			
NENU	GZ-08-015	<i>R. rex</i>	C: Guizhou	C7	♂	53.1			
NENU	HU-10-120	<i>R. rex</i>	C: Hunan	C8	♀	55.1			
NENU	HU-10-138	<i>R. rex</i>	C: Hunan	C8	♀	56.1			
IEBR	VN11-0057	<i>R. paradoxolophus</i>	V: Son La, Copia	V6	♂	49.5	x		
IEBR	VN11-0442	<i>R. paradoxolophus</i>	V: Thanh Hoa, Ngoc Lac	V10	♂	50	x		
IEBR	GT1269	<i>R. paradoxolophus</i>	V: Thanh Hoa, Xuan Lien	V11	♂	49.4	x	33.2 kHz	A003456
IEBR	GT1706	<i>R. paradoxolophus</i>	V: Hoa Binh, Ngoc Son, Ngo Luong	V7	♀	53.6	x	32.5 kHz	A002363
IEBR	ARN21-159	<i>R. paradoxolophus</i>	V: Ha Giang, Lung Khuy	V1	♀	55.4		28.3 kHz	A004490
IEBR	NF.120606.3	<i>R. paradoxolophus</i>	V: Bac Kan, Kim Hy	V5	♂		x		
IEBR	NF.150306.7	<i>R. paradoxolophus</i>	V: Bac Kan, Kim Hy	V5	♀		x		
IEBR	VTTu15.006	<i>R. paradoxolophus</i>	V: Cao Bang, Ha Lang	V4	♂	54.0	x		
IEBR	NH 28	<i>R. paradoxolophus</i>	V: Tuyen Quang, Na Hang	V2	♂	53.8	x		

Museum	Catalogue/Field No.	Taxon (original ID)	Location	Map	Sex	FA (mm)	Skull	FmaxE	ChiroVoxID *
IEBR	NH 32	<i>R. paradoxolophus</i>	V: Tuyen Quang, Na Hang	V2	♂	54.8	x		
IEBR	NH49	<i>R. paradoxolophus</i>	V: Tuyen Quang, Na Hang	V2	♂	54.9	x		
IEBR	NH16-65	<i>R. paradoxolophus</i>	V: Tuyen Quang, Na Hang	V2	♀	55.1	x	28.1 kHz	A002518
IEBR	NH16-66	<i>R. paradoxolophus</i>	V: Tuyen Quang, Na Hang	V2	♀	53.8	x	28.3 kHz	A002519
IEBR	IEBR-M-462	<i>R. paradoxolophus</i>	V: Tuyen Quang, Na Hang	V2	♀	53.9	x		
IEBR	IEBR-M-487	<i>R. paradoxolophus</i>	V: Tuyen Quang, Na Hang	V2	♂	51.0	x		
FES-NUoL	FES.MM.12.091	<i>R. paradoxolophus</i>	L: Khammoune	L2-3	♀	54.1	X		
FES-NUoL	FES-CBC02618	<i>R. paradoxolophus</i>	L: Khammoune	L2-3	♂	55.2		25.1 kHz	A004491
FES-NUoL	Released	<i>R. paradoxolophus</i>	L: Khammoune	L2-3	♂	55.9		25.6 kHz	A004492

\* The ChiroVoxIDs or accession numbers of bat call recordings deposited in the ChiroVox's bat call library (<https://www.chirovox.org>)