

**Supplementary Table S1.** The abbreviations and full names of total 91 survey sites in 5 provincial regions of Southwest China (2001-2019)

No.	Abbr.	Full name	No.	Abbr.	Full name	No.	Abbr.	Full name
1	AY	Anyue	32	JY	Jiangyang	63	SM	Simao*
2	BC	Binchuan*	33	KR	Karuo	64	SN	Sinan
3	BY	Bayi	34	LC	Longchuan	65	SZ	Shizhu
4	CS	Changshou	35	LH	Lianghe*	66	SZh	Shizhong
5	CY	Cangyuan*	36	LHo	Luhuo	67	TN	Tongnan
6	DC	Daocheng	37	LL	Luliang	68	TZ	Tongzhi*
7	DJ	Dianjiang	38	LLi	Longli	69	WS	Wenshan
8	DL	Dali*	39	LP	Lanping	70	WuS	Wusheng
9	DQ	Deqin	40	LS	Lushui	71	WX	Weixi*
10	DY	Daying	41	LX	Luxian	72	WY	Weiyuan
11	DYu	Duyun	42	LZ	Lezhi	73	WZ	Wanzhou
12	FC	Fucheng*	43	MEK	Maerkang*	74	XC	Xiangcheng
13	FG	Fugong*	44	MG	Maguan*	75	XGLL	Xianggelila
14	FL	Fuling	45	MH	Menghai*	76	XH	Xuanhan*
15	FY	Fuyuan*	46	MK	Mangkang	77	XX	Xixiu
16	GD	Guiding	47	ML	Mengla	78	XZ	Xuzhou
17	GL	Guanling	48	MLi	Muli	79	YaJ	Yajiang*
18	GM	Gengma*	49	MN	Mianning	80	YD	Yongde*
19	GS	Gongshan*	50	MY	Miyi	81	YJ	Yuanjiang*
20	GZ	Ganzi	51	MZ	Mengzi	82	YL	Yulong
21	HK	Hekou	52	NE	Ninger*	83	YoY	Youyang*
22	HS	Huishui	53	PA	Puan	84	YuY	Yunyang
23	HX	Huaxi	54	PC	Pingchang	85	YY	Yanyuan
24	HY	Hongya	55	PS	Pingshan	86	ZA	Zhengan
25	JC	Jianchuan	56	QB	Qiubei	87	ZF	Zhenfeng
26	JH	Jinghong*	57	QJ	Qiaojia	88	ZJ	Zhijin
27	JJ	Jiangjin	58	QW	Qianwei	89	ZS	Zhongshan
28	JK	Jiangkou*	59	RJ	Rongjiang*	90	ZX	Zhongxian
29	JP	Jinping	60	RL	Ruili*	91	ZZ	Zizhong
30	JS	Jinsha	61	RS	Renshou			
31	JT	Jintang	62	SJ	Suijiang			

The survey sites marked with "\*" were the collection sites of chestnut white-bellied rats, *N. fulvescens*.