

Table S1. Summary of identification results of sex-specific markers in *Amolops* species from GBS datasets (Optimal parameters)

Species	Dataset	N Males	N Females	Sex-linked tags (SNPs) identified (XY / ZW)					System
				Frequency method	Heterozygosity method	Sex-specific method	Total	Confirmed	
<i>A. chunganensis</i>	GBS	12	8	409(658)/479(703)	409(658)/478(702)	22/10	429(658)/501(703)	32(37)/0	XY
<i>A. jinjiangensis</i>	GBS	10	11	111(177)/112(172)	111(177)/112(172)	298/35	409(177)/147(172)	10(13)/0	XY
<i>A. lifanensis</i>	GBS	12	8	151(277)/203(291)	151(277)/202(287)	47/31	198(277)/234(291)	9(10)/0	XY
<i>A. loloensis</i>	GBS	9	11	153(218)/144(260)	153(218)/144(260)	108/44	261(218)/188(260)	14(15)/0	XY
<i>A. mantzorum</i>	GBS	10	10	209(260)/18(26)	205(255)/18(26)	72/2	281(260)/20(26)	105(112)/0	XY
<i>A. sp.</i>	GBS	8	9	60(81)/14(16)	60(81)/14(16)	125/51	185/(81)/65(16)	6(7)/0	XY
<i>A. tuberodepressus</i>	GBS	12	12	451(674)/395(582)	451(674)/395(582)	23/317	474(674)/712(582)	44(53)/0	XY
<i>A. wuyiensis</i>	GBS	8	12	43(52)1/(8)	42(51)/1(8)	304/21	347(52)/22(8)	22(25)/0	XY
<i>A. xinduqiao</i>	GBS	10	10	211(304)/9(17)	211(304)/9(17)	26/0	237(304)/9(17)	134(173)/0	XY