

Table S2. 27 Specimens with radiodontan head sclerites studied in this paper. Symbols: ‘?’: Unknown; ‘+’: Present; ‘-’: Absent. Numbers in the ‘TO’ column represent the numbers of cusps of the tooth elements. See Terminology for abbreviations.

Figures	NIGPAS	Other numbers	Taxa/sclerites	Cuticle structures			Marginal structures			Other body parts						Types	Preservation	Taphofacies	Localities
				IL&OL	TB	RS	MR	ML	MS	AC	OC	RM	SB	TO					
6A-I, 16B, C	162510a, b	-	TL-element	+	+	-	+	+	+	-	-	-	-	-	Holotype	Isolated	Event	Mafang	
13A-I, 16A	162511a, b	-	TL-element	+	+	-	+	+	+	-	+	+	-	4	Paratype	Disarticulated	Event	Mafang	
13J-O	162512	-	TL-element	+	+	-	+	+	+	+	-	-	+	-	Paratype	Disarticulated	Event	Mafang	
7G-J, 17C	162513a, b	-	TL-element	+	-	+	+	+	+	-	-	-	-	-	-	Isolated	Background	Baiyaolu	
8A-G	162514a, b	-	TO-element	+	?	+	+	-	+	-	-	-	-	-	Holotype	Isolated	Background	Maotianshan	
8H-M	162515	-	TO-element	+	?	+	+	-	+	-	-	-	-	-	Paratype	Isolated	Background	Mafang	
9A-G, 16D-F	162516a, b	-	TO-element	+	+	-	-	+	+	-	-	-	-	-	Paratype	Isolated	Event	Mafang	
9H-M	162517a, b	-	TO-element	+	+	-	-	+	+	+	-	-	-	-	Paratype	Disarticulated	Background	Mafang	
6J-M, 17A	162518a, b	CJZ 0048, 0050	TL-element	+	+	-	+	+	+	-	-	-	-	-	Paratype	Isolated	Background	Jianshan	
14A-H, 15A-C, 16H, I	162519a, b	-	Z-element	+	+	+	+	+	+	-	-	-	-	-	-	Isolated	Event	Mafang	
14I-P, 16G	162520a, b	-	Z-element	+	+	-	+	+	+	-	-	-	-	-	-	Isolated	Event	Mafang	
10A-F, 16L, 17D	162521a, b	-	R-element	+	+	-	+	+	+	-	-	-	-	-	-	Isolated	Background	Mafang	
10G-J, 16J, K	162522	-	R-element	+	+	-	+	+	+	-	-	-	-	-	-	Isolated	Event	Mafang	
10K-N	162523a, b	-	R-element	+	+	-	+	+	+	-	-	-	-	-	-	Isolated	Background	Mafang	
12	162524a, b	-	A-element	+	-	-	-	-	-	+	+	-	+	3, 5	-	Disarticulated	Background	Mafang	
11A-G, 17E, F	162525a, b	-	P-element	+	+	-	+	-	+	-	-	-	-	-	-	Isolated	Background	Shankou	
7A-F, 17B	162526	ELRC 19001	TL-element	+	+	+	+	+	+	-	-	-	-	-	Paratype	Isolated	Background	Maotianshan	
18A-C	162527a, b	-	<i>An. saron</i>	+	-	-	+	-	-	-	-	-	+	-	-	Disarticulated	Event	Mafang	
11H-M	164469	-	P-element	?	+	-	-	-	+	-	-	-	-	-	-	Isolated	Mixed	Kuangshan	
18D	?	ELRC 20001a	<i>An. saron</i>	+	-	-	+	-	-	-	-	-	+	-	-	Articulated	Event	Maotianshan	
18F	?	ELRC 21001	<i>Am. symbrachiata</i>	+	-	-	+	-	-	-	+	-	-	?	-	Disarticulated	Event	Maotianshan	
18E	?	ELRC 21002b	<i>Am. symbrachiata</i>	+	-	-	+	-	-	-	-	-	-	-	-	Articulated	Event	Maotianshan	
15F	?	SK 010120	Z-element	+	?	-	+	-	?	-	-	-	-	-	Holotype	Isolated	Event	Shankou	
15D, E	?	SK 010121	Z-element	+	?	-	+	-	+	-	-	-	-	-	Paratype	Isolated	Event	Shankou	
-	?	CJZ 0049	TL-element	+	+	-	+	+	+	-	-	-	-	-	-	Isolated	Background	Jianshan	
-	?	-	TO-element	+	+	-	-	-	+	-	-	-	-	-	-	Isolated	Background	Mafang	
-	?	CPS 0353a, b	TO-element	+	?	+	+	-	+	-	-	-	-	-	-	Isolated	Background	Ma'anshan	
-	?	CPS 3175a, b	TO-element	+	?	+	+	-	+	-	-	-	-	-	-	Isolated	Background	Ma'anshan	
-	?	-	TL-element	+	+	-	+	+	+	-	-	+	-	-	-	Disarticulated	Background	Mafang	