

Character	<i>Siphonurus</i>	<i>Pelta</i>	<i>Nemoura</i>	<i>Galloisiana</i>	<i>Grylloblatta</i>	<i>Austrophasma</i>	<i>Karooophasma</i>	<i>Timema</i>	<i>Agathemera</i>	<i>Phyllium</i>	<i>Styloidea</i>	<i>Megacrania</i>	<i>Hymenopus</i>	<i>Cryptocercus</i>	<i>Mastotermes</i>	<i>Periplaneta</i>	<i>Metoligotoma</i>	<i>Embia</i>	<i>Labidura</i>	<i>Forficula</i>	<i>Xya</i>	<i>Troglophilus</i>	<i>Schizodactylus</i>	<i>Z. weidneri</i>	<i>Z. hubbardi</i>	<i>Stenopsocus</i>	<i>Aeolothrips</i>	<i>Osmylus</i>	<i>Macroxylea</i>	
1 Orientation of head: (0) orthognathous; (1) prognathous or slightly inclined (2) hypognathous	0	1	1	1	1	0	0	1	1	1	1	1	0	0	1	2	1	1	1	1	0	0	0	0	0	0	2	0	0	
2 Number of ocelli (0) 0; (1) 2; (2) 3:	2	2	2	0	0	0	0	0	0	0	0	0	2	0	1	1	0	0	0	0	2	0	0	2	2	2	2	2	2	
3 Compound eyes: (0) more than 80 ommatidia; (1) less than 80 ommatidia	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4 Distance between compound eyes: (0) less than their own width; (1) greater than their own width; (2) eyes fused at single point; (3) eyes broadly fused along an eye seam.	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	
5 Epicranial or coronal suture: (0) present; (1) absent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	0	1	?	1	
6 Parietal ridge: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7 Postoccipital ridge: (0) present; (1) absent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
8 Interantennal ridge: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9 Distinct convexity ventrad the antennal bases: (0) absent; (1) present	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10 Scutellum: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11 X-shaped median apodeme on the frontal region: (0) absent; (1) present	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 Clypeus: (0) not subdivided; (1) subdivided into ante- and postclypeus	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
13 Postclypeus: (0) normally developed; (1) enlarged	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-	-	-	
14 Adult mouthparts: (0) with function; (1) without function	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15 Oval sclerotization of labral base: (0) absent; (1) present	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16 Mesal extension of tormae: (0) present; (1) absent	?	1	1	0	0	0	1	1	1	1	1	1	0	?	?	0	?	1	?	0	0	?	?	?	1	?	?	?	?	
17 M. epistoeipharyngealis (0lb3): (0) present; (1) absent	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18 M. labroepipharyngalis (0lb5): (0) present; (1) absent	0	0	0	1	1	0	0	0	0	0	0	0	0	?	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
19 M. labrolabralis (0lb6): (0) present; (1) absent	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20 Insertion of antennae: (0) close to the anterior mandibular articulation; (1) distinctly separated from the anterior mandibular articulation	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	0	1	1	1	1	
21 Antennifer: (0) present; (1) reduced	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	?	0	0	0	0	1	?	0	1	
22 Length of pedicel and scapus: (0) pedicel longer than scapus; (1) scapus longer than pedicel; (2) scapus and pedicel equal in length	0	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	
23 Oval sclerite in membrane connecting scapus and pedicellus: (0) absent; (1) present	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24 Size of first flagellomere: (0) not enlarged; (1) distinctly enlarged	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
25 Antennal stridulatory organ: (0) absent; (1) present	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26 Areas of origin of antennal muscles: (0) anterior tentorial arms only; (1) anterior and dorsal tentorial arms; (2) dorsal tentorial arms only	2	2	2	1	1	0	0	1	1	0	0	0	0	0	0	0	2	2	1	1	1	1	0	1	1	1	0	1	1	
27 M. tentorioscapalis lateralis (0an3): (0) present; (1) absent	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	1	1	1	0	0	1	1	0	0	0	1	1	0	0	
28 M. tentorioscapalis medialis (0an4): (0) present; (1) absent	0	0	1	1	1	1	1	0	0	0	0	1	1	1	1	0	0	1	0	1	1	1	1	1	1	1	1	0	0	
29 Ostia of dorsal vessel: (0) lips always present; (1) ostia with and without lips (excurrent ostia)	?	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	?	?	0	?	0	0	
30 Position and number of excurrent ostia within a segment: (0) one ventrolateral pair; (1) ventromedian	?	1	1	0	0	-	-	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	?	?	-	?	-	-	
31 Antennal circulatory organs in adults: (0) present; (1) absent	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	?	?	0	0	0	

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32	Antennal vessel wall: (0) uniform; (1) bipartite		-	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	?	?	0	0		
33	Contractibility of antennal ampulla: (0) absent (non-pulsatile); (1) present (pulsatile)		-	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	?	?	1	0		
34	M. interampullaris (0ah1): (0) absent; (1) present		-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	?	1	1	?	?	0	-		
35	M. ampulloaortica (0ah2): (0) absent; (1) present		-	-	-	-	-	1	1	0	0	1	1	1	1	1	?	0	0	0	0	?	?	0	1	?	?	0	-		
36	M. ampulloparyngealis (0ah3): (0) absent; (1) present		-	1	1	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	?	0	0	?	?	1	-	
37	M. ampullo-frontalis (0ah4): (0) absent; (1) present		-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	1	0	0	0	0	?	0	0	?	?	0	-		
38	Connection of antennal ampulla to supraoesophageal ganglion: (0) absent; (1) present		-	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	?	?	0	0		
39	Oval nuclei in tissue connecting the antennal ampulla and supraoesophageal ganglion: (0) absent; (1) present		-	0	0	1	1	1	1	-	-	-	-	-	0	0	-	-	-	0	0	-	-	-	-	-	?	?	-	-	
40	Anterior and posterior tentorium: (0) separated; (1) merged		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
41	Anterior tentorial pit: (0) not visible from outside; (1) externally visible		0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
42	Wing-like processes of the anterior tentorial apodemes extending into the lumen of the mandibular base: (0) absent; (1) present		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
43	Corpotentorium: (0) short; (1) elongated		0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	
44	Apophyses on the anterior surface of the corpotentorium: (0) absent; (1) present		0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45	Secondary anterior tentorial bridge ("perforation of the corpotentorium"): (0) absent; (1) present		0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
46	Lateral lobes on the anterior tentorial arms: (0) absent; (1) present		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
47	Cuticular dorsal tentorial arms: (0) absent; (1) present		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	?	1	1	1	0	1	1	
48	Trabeculae tentorii of posterior tentorial arms (0) present; (1) absent		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	?	0	0	0	0	1	1	1	1	1	1	
49	Numbers of incisivi on the left mandible: (0) 2; (1) 3; (2) 5; (3) 0; (4) 1		0	2	2	0	0	4	4	1	1	3	3	3	1	1	1	1	1	1	?	1	?	1	2	2	?	?	1	?	
50	Numbers of incisivi on the right mandible: (0) 2; (1) 3; (2) 4; (3) 5; (4) 0; 5 (1)		0	3	3	1	0	5	5	1	1	4	4	4	1	1	1	1	1	0	1	0	1	?	1	3	3	?	?	1	2
51	Armament on the mesal side of the left mandible: (0) without teeth or ridges; (1) one tooth; (2) three ridges		-	-	-	-	-	-	-	1	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
52	Mandibular postmola: (0) absent; (1) present		0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
53	Anterior mandibular joint: (0) channel-joint; (1) ball-and-socket joint		0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
54	Anterolateral part of the anterior mandibular articulation (paratentorial joint): (0) present; (1) absent		0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
55	Posterior mandibular joint: (0) cylinder-shaped (1) ball-and-socket joint		0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
56	M. craniomandibularis externus anterior (0md2): (0) present; (1) absent		0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
57	M. hypopharyngomandibularis (0md4): (0) present; (1) absent		0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	?	1	0	0	0	1	1	0	1	1	1	
58	M. tentorio-mandibularis lateralis superior (0md5): (0) present; (1) absent		0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
59	M. tentorio-mandibularis medialis superior (0md7): (0) present; (1) absent		0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
60	Cardo: (0) present; (1) absent		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0		

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95	M. praementoglossalis (01a12): (0) present; (1) absent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	?	0	0
96	M. praementopalpalis internus (01a13): (0) present; (1) absent.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
97	M. praementopalpalis externus (01a14): (0) present; (1) absent	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	Hypopharynx overlapping paraglossae and glossae (0) absent; (1) present	0	0	0	1	?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	Shape of hypopharynx: (0) slope like; (1) distinctly flattened	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	-	
100	Superlinguae: (0) present; (1) absent	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	?	?	1	1	1	1	1	1	1	1	1	1
101	Salivary glands and ductus: (0) present; (1) absent	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	?	0	0	0	0	0	0
102	Connection of salivary ducts: (0) connected before opening, Y-shaped; (1) open separately	-	0	?	0	?	0	0	0	1	1	1	1	0	0	1	0	0	0	?	?	0	0	?	0	0	?	?	?	?
103	M. frontobuccalis lateralis (0hy2): (0) present; (1) absent	?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	?	0	0	0	?	0	1
104	M. craniohypopharyngealis (0hy3): (0) present; (1) absent	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	?	1
105	M. hypopharyngosalivaris (0hy12): (0) present; (1) absent	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
106	M. frontobuccalis posterior (0bu3): (0) present; (1) absent	0	0	0	0	0	0	0	0	1	1	1	0	?	0	0	0	0	0	0	0	0	0	0	0	0	0	?	0	0
107	M. tentoriobuccalis lateralis (0bu4): (0) absent; (1) present	1	0	0	1	1	1	1	1	1	1	1	0	?	0	0	0	0	1	1	0	1	1	1	1	0	0	0	0	0
108	M. tentoriobuccalis anterior (0bu5): (0) present; (1) absent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	?
109	M. tentoriobuccalis posterior (0bu6): (0) present; (1) absent	0	0	0	0	0	0	0	0	0	0	0	0	?	0	0	0	0	0	0	0	0	0	0	?	0	1	1	0	1
110	Origin of M. tentoriobuccalis posterior (0bu6): (0) corpotentorium, (1) anterior tentorial arms	0	0	0	0	0	0	1	1	1	1	1	0	?	0	0	0	0	0	0	0	0	0	0	?	0	-	-	1	-
111	Shape of maxillary palps in cross section: (0) approximately round; (1) dorsoventrally flattened	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Rupture-facilitating cuticle modification of antennal flagellum: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
113	Insertion of lacinia: (0) on stipes; (1) detached from stipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
114	Cibarial water-vapor uptake apparatus: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
115	Cibarial dilators: (0) normally developed; (1) strongly enlarged	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
116	Dististipes: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
117	M. verticopharyngalis (0ph1): (0) one component; (1) two components	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	-	0	0
118	Oesotendons: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	M. hypopharyngosalivaris (0hy12): (0) one component; (1) two components	-	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	-	0	-	0	0	0	
120	Loral arm of hypopharynx: (0) ends before mandible; (1) is curved and reaches deeply in the mandible.	0	-	-	0	0	0	0	0	0	0	0	1	1	1	1	0	0	-	-	0	0	?	-	-	0	-	-	-	
121	Extrinsic labral muscles: (0) attached at frons; (1) attached at base of circumantennal ridge.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	
122	Antennal muscles: (0) not attached with massive tendon; (1) attached with massive tendon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
123	Galea with distal spines: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
124	Moveable prosthema on the left mandible: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
125	Adults with two morphs: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
126	Larval stemmata: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
127	Immature stages: (0) similar body shape than adult; (1) different body shape than adult	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
128	Prominent infraclypeal ridge: (0) absent; (1) present	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	