

# A New Species of *Siagonium* Kirby & Spence (Coleoptera: Staphylinidae: Piestinae) in Korea

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## Introduction

*Siagonium* Kirby & Spence is composed of 24 species and occurs in the Palearctic and Nearctic region. In East Asia, 16 species have been known in Japan, five species in China and two species in Korea (*Siagonium nobile* Sharp and *S. vittatum* Fauvel) (Newton 2022).

During an ongoing taxonomic study of Korean Piestinae, we found a new species of *Siagonium* in the Korean peninsula.

Members of *Siagonium* are characterized by the combination of the following characters: gular plate with deep median depression; mesoventral process very narrow; abdominal segments with paratergites (Naomi 1995).

The new species is similar to *S. vittatum* in having elytra with one pair of reddish yellow markings along lateral margins. But they can be distinguished by the shape of horns of head, mouthparts and the ratio of antennomeres.

A description and illustrations of the habitus and diagnostic characters of the new species are provided.

## Results

### *Siagonium pseudovittatum* Park and Ahn, new species [Figs. 1–11].

**Description.** Habitus as in Fig. 1 and 8, body length 3.9–4.3 mm. Body flattened dorso-ventrally. Head brown; pronotum brown; elytra brown with a pair of reddish yellow markings along lateral margins; scutellum brown; abdomen brown with genital segment yellowish-brown; antennomeres 1–11 reddish-brown; mandibles reddish-brown, maxillary and labial palpi and legs reddish-brown. **Head.** Subrectangular, about 1.33 times as wide as long, almost as wide as pronotum; surface dull with coarse punctures; eye proportionally small, about 0.26 times as short as temple; gular sutures not converged; antennae moderately long, antennomere 1 shorter than 2–3 combined, 2 shorter than 3, 1–10 longer than wide, 11 about 4.75 times as long as wide. **Mouthparts.** Labrum transverse, anterior margin concave; mandibles each with one simple tooth and one strongly protruded dorsal tooth; maxillary palpus elongate, palpomere 4 fusiform, longer than 3; labial palpus elongate, palpomere 3 fusiform, longer 2; ligula bilobed. **Thorax.** Pronotum narrowed posteriad, wider than long, widest at anterior third; surface dull with coarse and dense punctures; hypomeron visible in lateral view; elytron longer than wide, with coarse and dense punctures, postero-outer margin truncate. **Abdomen.** Parallel-sided; surface dull with fine and dense reticulate microsculpture; tergite IV–VII with two large golden setae near basal lines, tergite IV with two tomentose patches. **Male.** Tergite VIII subrounded apically (Fig. 2); sternite VIII subrounded apically (Fig. 3); sternite IX subrounded apically with several apical setae (Fig. 4); tergite X subrounded apically with several apical setae (Fig. 5); median lobe curved dorsally and narrowed apically in lateral view (Fig. 7) paramere bilobed, slender, rounded at apex (Fig. 6). **Female.** Tergite VIII similar to that of male (Fig. 9); sternite VIII similar to that of male (Fig. 10); tergite X similar to that of male (Fig. 11).

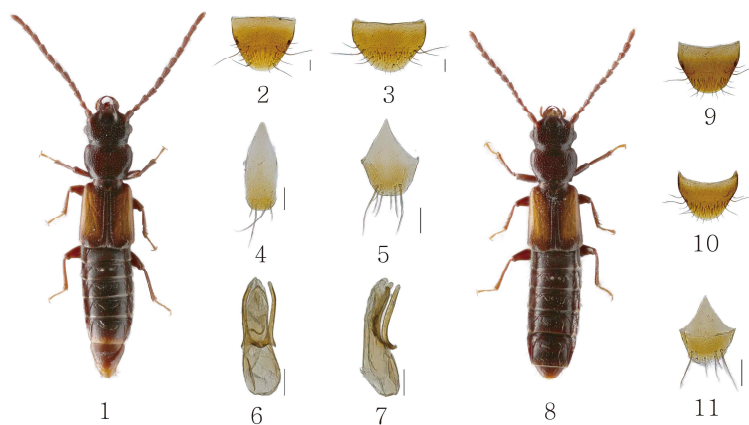
**Type Material.** **Holotype**, ♂, labeled as follows: “KOREA: Gyeonggi Prov., Gunpo-city, Mt. Surisan, 15 I 2001, TW Kim, ex under bark; HOLOTYPE *Siagonium pseudovittatum* Park and Ahn 2022”. **Paratypes**, 12 exx. (CNUIC): 2♂10♀., same data as holotype; 2 exx. (CNUIC): 1♂1♀., “KOREA: Gyeonggi Prov., Ganghwa-gun Hwado-myeon, Sangbang-ri, Mt. Manisan, N37°37'14.5" E126°24'21.1" 119 m, 24 IV 2010, KJ Ahn, JG Lee, IS Yoo, YH Kim, JH Song, under bark”.

**Distribution.** Korea (South).

**Etymology.** The name is derived from a combination of Pseudo- = false + vittatum = a known species name.

**Remarks.** *Siagonium pseudovittatum* is similar to *S. vittatum* in having elytra with a pair of reddish yellow markings along lateral margins. The new species can be distinguished from *S. vittatum* by the shape of horns of head, mandibles and the ratio of antennomeres.

## Habitus and diagnostic characters of *Siagonium pseudovittatum*



**Figures. 1–11.** *Siagonium pseudovittatum*, new species. Figs. 1–7, male; 8–11 female. 1) Habitus, 4.2 mm; 2) Tergite VIII, dorsal view; 3) Sternite VIII, ventral view; 4) Sternite IX, ventral view; 5) Tergite X, dorsal view; 6) Aedeagus, ventral view; 7) Aedeagus, lateral view; 8) Habitus, 4.0 mm; 9) Tergite VIII, dorsal view; 10) Sternite VIII, ventral view; 11 Tergite X, dorsal view. Scale bar = 0.1 mm.

## Habitus of *Siagonium nobile*, *Siagonium vittatum*, *Siagonium pseudovittatum* sp. nov.



**Figures. 12.** Habitus of *Siagonium nobile* (first from the left, Syntype), *Siagonium vittatum* (second from the left, Syntype), *Siagonium vittatum* (third from the left, Korean species), *Siagonium pseudovittatum* (fourth from the left)

## References

- Naomi S.-I. (1995) Revision of the gracile group of the genus *Siagonium* Kirby et Spence from Japan (Coleoptera, Staphylinidae, Piestinae). Japanese journal of systematic entomology 1(1): 1–10.  
 Newton A.F. (2022) StaphBase: Staphyliniformia world catalog database (version Aug. 2022). In: Species 2000 & ITIS Catalogue of Life, 2022-11-17 (Roskov Y.; Ower G.; Orrell T.; Nicolson D.; Baillly N.; Kirk P.M.; Bourgoin T.; DeWalt R.E.; Decock W.; Nieuwerkerken E. van; Penev L.; eds.). Digital resource at [www.catalogueoflife.org/col](http://www.catalogueoflife.org/col). Species 2000: Naturalis, Leiden, the Netherlands. ISSN 2405-8858.

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