**Supplementary File 2. Examples of putative archaeal and eukaryotic homologs that likely represent contamination during genome assembly.**

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| --- | --- | --- |
| **Putative archaeal/eukaryotic sequence** | **Branches with…** | **Bootstrap support** |
| *Pantholops hodgsonii*[Tibetan antelope](XP\_005980042.1) | *Asticcacaulis taihuensis* [Proteobacteria] (WP\_090646987.1) | 88% |
| *Pantholops hodgsonii*[Tibetan antelope](XP\_005982097.1) | Ochrobactrum sp. PW1[Proteobacteria](BBA74293.1) | 59% |
| *Aspergillus sclerotialis*(RJE17645.1) | Methylobacterium sp. 4-46[Proteobacteria](WP\_012330955.1) | 49% |
| *Nephila clavipes*[Golden silk orb-weaver](PRD22299.1) | Acinetobacter[Proteobacteria](WP\_086210128.1) | 96% |
| Thorarchaeota archaeon SMTZ1-83 (KXH76530.1) | *Filimonas lacunae*[Bacteroidetes](SIT08387.1) | 30% |
| Lokiarchaeota archaeon CR 4 (OLS13623.1) | *Ktedonobacter racemifer*[Cyanobacteria](WP\_007906963.1) | 97% |