

Table S1 Total eDNA concentration.

| Sampling site of San Cha River | | | | Sampling site of Miao Gou River | | | |
|--------------------------------|---------------------------|-------------------|---------------------------|---------------------------------|---------------------------|-------------------|---------------------------|
| April collection | | August collection | | April collection | | August collection | |
| Site name | DNA concentration (ng/μl) | Site name | DNA concentration (ng/μl) | Site name | DNA concentration (ng/μl) | Site name | DNA concentration (ng/μl) |
| 4-1-1-1 | 21.4 | 8-1-1-1 | 53.1 | 4-2-1-1 | 11.3 | 8-2-1-1 | 75.5 |
| | 22.3 | | 53.4 | | 12.0 | | 74.7 |
| 4-1-1-2 | 88.6/87.5 | 8-1-1-2 | 49.9 | 4-2-1-2 | 29.9 | 8-2-1-2 | 49.4 |
| 4-1-1-3 | 34.4/35.2 | | 49.5 | | 31.2 | | 49.8 |
| Blank | 0.7 | Blank | 0.7 | Blank | 0.4 | Blank | 0.5 |
| 4-1-2-1 | 10.4 | 8-1-2-1 | 34.6 | 4-2-2-1 | 4.5 | 8-2-2-1 | 67.9 |
| | 12.5 | | 34.7 | | 5.6 | | 65.9 |
| 4-1-2-2 | 8.4 | 8-1-2-2 | 15.5 | 4-2-2-2 | 52.4 | 8-2-2-2 | 60.4 |
| | 9.5 | | 16.5 | | 52.9 | | 61.6 |
| Blank | 0.5 | Blank | 0.6 | Blank | 0.9 | Blank | 0.3 |
| 4-1-3-1 | 40.5 | 8-1-3-1 | 26.1 | 4-2-3-1 | 12.9 | 8-2-3-1 | 108.6 |
| | 42.5 | | 27.9 | | 13.2 | | 106.4 |
| 4-1-3-2 | 42.2 | 8-1-3-2 | 15.8 | 4-2-3-2 | 11.9 | 8-2-3-2 | 39.5 |
| | 43.6 | | 15.9 | | 12.3 | | 38.9 |
| Blank | 0.8 | Blank | 0.2 | Blank | 0.3 | Blank | 0.2 |
| 4-1-4-1 | 10.1 | 8-1-4-1 | 59.7 | 4-2-4-1 | 55.2 | 8-2-4-1 | 29.4 |
| | 15.1 | | 59.8 | | 59.3 | | 28.3 |
| 4-1-4-2 | 17.1 | 8-1-4-2 | 27.0 | 4-2-4-2 | 10.1 | 8-2-4-2 | 45.4 |
| | 18.9 | | 27.1 | | 12.3 | | 45.9 |
| Blank | 0.5 | Blank | 0.1 | Blank | 0.7 | Blank | 0.5 |
| 4-1-5-1 | 46.9 | 8-1-5-1 | 35.8 | 4-2-5-1 | 13.2 | 8-2-5-1 | 30.2 |
| | 47.6 | | 38.3 | | 14.2 | | 29.9 |
| 4-1-5-2 | 27.8 | 8-1-5-2 | 18.2 | 4-2-5-2 | 4.4 | 8-2-5-2 | 34.2 |
| | 29.5 | | 17.8 | | 5.9 | | 35.7 |
| Blank | 0.5 | Blank | 0.5 | Blank | 0.6 | Blank | 0.6 |
| 4-1-6-1 | 68.2 | | | 4-2-6-1 | 63 | | |
| | 69.5 | | | | 65 | | |
| 4-1-6-2 | 37.9 | | | 4-2-6-2 | 28.2 | | |
| | 38.2 | | | | 30 | | |
| Blank | 0.3 | | | Blank | 0.6 | | |

Note: "blank" means distilled water was filtered as a negative control for each sample.

Figure S1. List of species identification results using the NCBI GenBank in this study.