**Table S2.** Uncorrected *16S p*-distances calculated based on individual gene of 10 described *Phestilla* species

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1 | *Phestilla subodiosa* HKBU\_1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | *Phestilla subodiosa* HKBU\_2 | 0.000 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | *Phestilla chaetopterana* | 0.151 | 0.151 |  |  |  |  |  |  |  |  |  |  |  |
| 4 | *Phestilla fuscostriata* | 0.120 | 0.120 | 0.168 |  |  |  |  |  |  |  |  |  |  |
| 5 | *Phestilla goniophaga* | 0.097 | 0.097 | 0.164 | 0.139 |  |  |  |  |  |  |  |  |  |
| 6 | *Phestilla lugubris* | 0.090 | 0.090 | 0.135 | 0.135 | 0.097 |  |  |  |  |  |  |  |  |
| 7 | *Phestilla melanobrachia* | 0.082 | 0.082 | 0.159 | 0.121 | 0.068 | 0.082 |  |  |  |  |  |  |  |
| 8 | *Phestilla minor* | 0.098 | 0.098 | 0.143 | 0.141 | 0.117 | 0.117 | 0.109 |  |  |  |  |  |  |
| 9 | *Phestilla poritophages* | 0.087 | 0.087 | 0.159 | 0.126 | 0.118 | 0.111 | 0.115 | 0.129 |  |  |  |  |  |
| 10 | *Phestilla sibogae* | 0.090 | 0.090 | 0.135 | 0.135 | 0.097 | 0.000 | 0.082 | 0.117 | 0.111 |  |  |  |  |
| 11 | *Phestilla subodiosa\_* Jeju\_island, South Korea | 0.003 | 0.003 | 0.155 | 0.123 | 0.100 | 0.094 | 0.085 | 0.101 | 0.091 | 0.094 |  |  |  |
| 12 | *Phestilla subodiosa\_*Hong Kong Aquarium | 0.000 | 0.000 | 0.151 | 0.120 | 0.097 | 0.090 | 0.082 | 0.098 | 0.087 | 0.090 | 0.003 |  |  |
| 13 | *Phestilla subodiosa\_* Steinhart Aquarium | 0.003 | 0.003 | 0.155 | 0.123 | 0.100 | 0.094 | 0.085 | 0.101 | 0.091 | 0.094 | 0.005 | 0.003 |  |
| 14 | *Phestilla viei* | 0.128 | 0.128 | 0.204 | 0.055 | 0.156 | 0.160 | 0.127 | 0.167 | 0.130 | 0.160 | 0.131 | 0.128 | 0.131 |