**Supplementary Table 2**. COII gene sequence identity values for sister species *P. quindecaurelia* sp.n. and *P. biaurelia*.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | A65  ***P. quindecaurelia*** | D88  ***P. quindecaurelia*** | V1-4  ***P. biaurelia*** | IST5  ***P. biaurelia*** |
| A65  ***P. quindecaurelia*** | \* | 99.9%  (940/941) | 95.1%  (895/941) | 94.8%  (823/868) |
| D88  ***P. quindecaurelia*** | 99.9%  (940/941) | \* | 95.2%  (896/941) | 94.9%  (824/868) |
| V1-4  ***P. biaurelia*** | 95.1%  (895/941) |  | \* | 99.8%  (866/868) |
| IST5  ***P. biaurelia*** | 94.8%  (823/868) | 94.9%  (824/868) | 99.8%  (866/868) | \* |