**S3 Table.** Information about the *COI* sequences used in the haplotype network, including the code of the individual, area and year of collection, haplotype assigned, NCBI GenBank accession number, and the part of the organism used for the DNA extraction. aSee Table 1 for further details. bSee Figure 8 (haplotype network) for further details.

| ***Osedax deceptionensis* code** | **Area of collection and Yeara** | **Haplotype assignedb** | **NCBI accession number** | **Part used for DNA extraction** |
| --- | --- | --- | --- | --- |
| *O. deceptionensis*\_2010 | Deception Is., 2010 | H9 | KT867774 | roots |
| *O. deceptionensis*\_1 | Deception Is., 2013 | H6 | KT867775 | palps |
| *O. deceptionensis*\_2 | Deception Is., 2013 | H6 | KT867776 | palps |
| *O. deceptionensis*\_3 | Deception Is., 2013 | H10 | KT867777 | roots |
| *O. deceptionensis*\_4 | Deception Is., 2013 | H11 | KT867790 | roots |
| *O. deceptionensis*\_5 | Deception Is., 2013 | H3 | KT867778 | roots |
| *O. deceptionensis*\_6 | Deception Is., 2013 | H6 | KT867779 | palps |
| *O. deceptionensis*\_7 | Deception Is., 2013 | H1 | KT867793 | palps |
| *O. deceptionensis*\_8 | Deception Is., 2013 | H6 | KT867780 | palps |
| *O. deceptionensis*\_9 | Deception Is., 2013 | H2 | KT867781 | roots |
| *O. deceptionensis*\_10 | Deception Is., 2013 | H7 | KT867782 | roots |
| *O. deceptionensis*\_11 | Deception Is., 2013 | H8 | KT867783 | palps |
| *O. deceptionensis*\_12 | Deception Is., 2013 | H4 | KT867784 | palps |
| *O. deceptionensis*\_13 | Deception Is., 2013 | H6 | KT867785 | palps |
| *O. deceptionensis*\_14 | Deception Is., 2013 | H6 | KT867786 | palps |
| *O. deceptionensis*\_15 | Deception Is., 2013 | H6 | KT867787 | palps |
| *O. deceptionensis*\_16 | Deception Is., 2013 | H6 | KT867788 | roots |
| *O. deceptionensis*\_17 | Deception Is., 2013 | H5 | KT867789 | roots |
| *O. deceptionensis*\_18 | South Georgia Is., 2013 | H9 | KT867791 | roots |
| *O. deceptionensis*\_19 | South Georgia Is., 2013 | H12 | KT867792 | roots |