Supplementary material

How does marker choice affect your diet analysis: comparing genetic markers and digestion levels for diet metabarcoding of tropical-reef piscivores

Floriaan Devloo-Delva^{A,B,C,I}, Roger Huerlimann^{A,D}, Gladys Chua^A, Jordan K. Matley^E,

Michelle R. Heupel^F, Colin A. Simpfendorfer^A and Gregory E. Maes^{A,D,G,H}

^ACentre for Sustainable Tropical Fisheries and Aquaculture, College of Science and Engineering,

James Cook University, 145 James Cook Drive, Townsville, Qld 4811, Australia.

^BOceans and Atmosphere, CSIRO, GPO Box 1538, Hobart, Tas 7000, Australia.

^CSchool of Biological Sciences–Quantitative Marine Science, University of Tasmania,

Private Bag 55, Hobart, Tas 7001, Australia.

^DComparative Genomics Centre, College of Science and Engineering, James Cook University,

145 James Cook Drive, Townsville, Qld 4811, Australia.

^ECenter for Marine and Environmental Studies, University of the Virgin Islands, 2 John Brewers Bay, St Thomas, VI 00802, USA.

^FAustralian Institute of Marine Science, PMB 3, Townsville, Qld 4810, Australia.

^GLaboratory of Biodiversity and Evolutionary Genomics, KU Leuven, Charles Deberiotstraat 32, BE-3000 Leuven, Belgium.

^HCenter for Human Genetics, UZ Leuven–Genomics Core, KU Leuven, Herestraat 49,

BE-3000 Leuven, Belgium.

¹Corresponding author. Email: floriaan.devloo.delva@hotmail.com

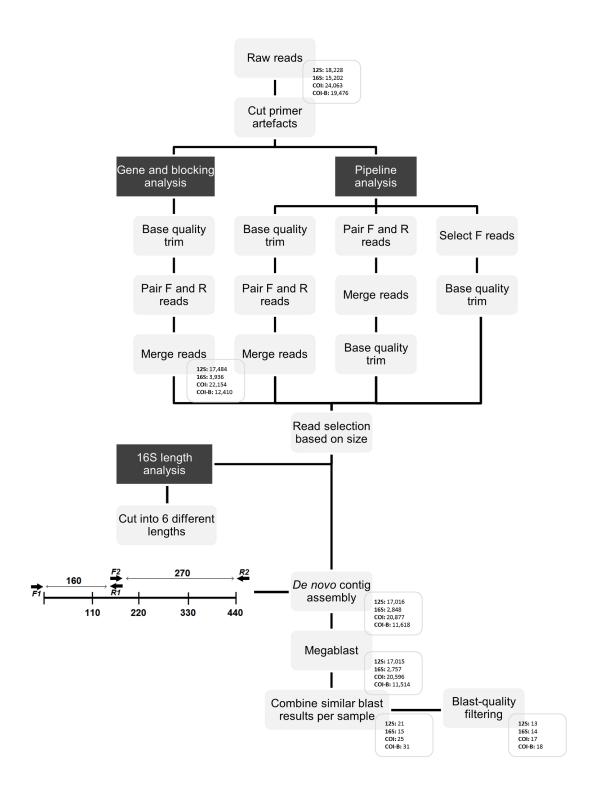


Fig. S1. Schematic overview of the assembly pipeline, starting from raw forward (F) and reverse (R) reads. A detailed description is given in the 'Materials and methods' section. Numbers indicate the respective amount of sequences or blast results.

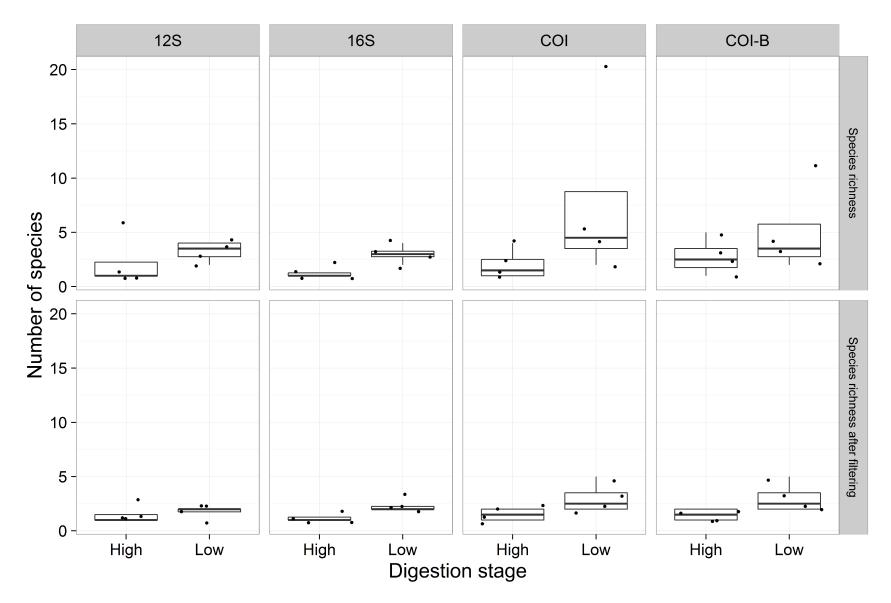


Fig. S2. Species richness of four low- and four high-digestion samples, compared across the four markers before and after blast-quality filtering.

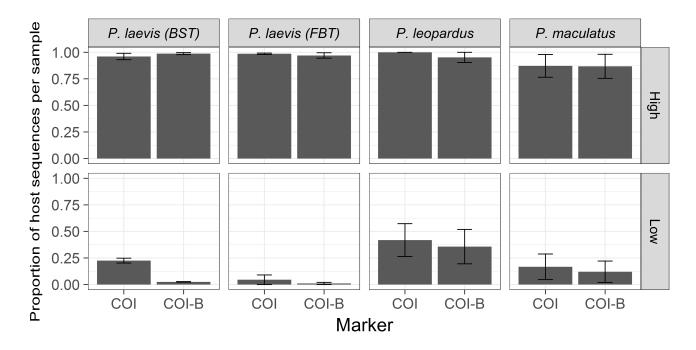


Fig. S3. Efficiency of host amplification with host-blocking components for *COI*. Proportion of the number of host sequences over total number of sequences per sample is contrasted against the host species and digestion stage. Error bars represent standard errors.