

Table 1 – Comparison of ONT and Sanger generated COI DNA barcodes for 68 marine invertebrate specimens. **Length** = sequence length of DNA barcode in bases, **% N** = percentage of ambiguous bases in DNA barcode, **Translatable** = whether the sequence can be translated without stop codons, **ID based on BOLD hits** = taxonomic ID based on the top BOLD hit(s), **Recovered** = whether a forward read or overlapping forward and reverse reads (contig) were used to generate the Sanger DNA barcode, **% Sim** = percentage similarity between the ONT and Sanger sequences, and **OTU** = the final taxonomic ID after considering sequence information and morphology. Specimens where no DNA barcode was recovered are highlighted in **Red**. Specimens where more than 10% of the Sanger sequence contained basecalls with greater than 5% error probability are highlighted in **Yellow**. Specimens where mapping of reads in Geneious was used to generate the DNA barcode are highlighted in **Grey**.

ONT						Sanger					Final		
Length	% N	Translatable	Top BOLD Hit	Rank	Recovered	Length	% N	Translatable	Top BOLD hit	Rank	% Sim	OTU	Rank
658	0	Yes	Ampharetidae	Family	Contig	625	0.6	Yes	Ampharetidae	Family	99.7	Ampharetidae	Family
658	0	Yes	Ampharetidae	Family	Contig	658	0	Yes	Ampharetidae	Family	100	Ampharetidae	Family
658	0	Yes	<i>Amphipholis squamata</i>	Species	Contig	658	0	Yes	<i>Amphipholis squamata</i>	Species	100	<i>Amphipholis squamata</i>	Species
658	0	Yes	<i>Amphorina</i>	Genus	Contig	658	0	Yes	<i>Amphorina</i>	Genus	100	<i>Amphorina</i> sp.	Genus
658	0	Yes	<i>Amphorina</i>	Genus	Contig	658	0	Yes	<i>Amphorina</i>	Genus	100	<i>Amphorina</i> sp.	Genus
658	0	Yes	<i>Anemonia viridis</i>	Species	LCO only	655	0	Yes	<i>Roya anglica</i>	contamination	-	<i>Anemonia viridis</i>	Species
658	0	Yes	<i>Arenicola marina</i>	Species	Contig	658	0	Yes	<i>Arenicola marina</i>	Species	100	<i>Arenicola marina</i>	Species
658	0	Yes	<i>Arenicola marina</i>	Species	Contig	658	0	Yes	<i>Arenicola marina</i>	Species	100	<i>Arenicola marina</i>	Species
658	0	Yes	<i>Asterias rubens</i>	Species	Contig	600	0	Yes	<i>Asterias rubens</i>	Species	100	<i>Asterias rubens</i>	Species
658	0	Yes	<i>Bittium reticulatum</i>	Species	Contig	658	0	Yes	<i>Bittium reticulatum</i>	Species	100	<i>Bittium reticulatum</i>	Species
658	0	Yes	<i>Bittium reticulatum</i>	Species	LCO only	651	0	No	<i>Bittium reticulatum</i>	Species	98	<i>Bittium reticulatum</i>	Species
658	0	Yes	<i>Sacoglossa</i>	Superorder	Contig	658	0	Yes	<i>Sacoglossa</i>	Superorder	100	<i>Calliopaea bellula</i>	Species
658	0	Yes	<i>Sacoglossa</i>	Superorder	Contig	658	0	Yes	<i>Sacoglossa</i>	Superorder	100	<i>Calliopaea bellula</i>	Species
658	0	Yes	<i>Cerastoderma edule</i>	Species	Contig	658	0	Yes	<i>Cerastoderma edule</i>	Species	100	<i>Cerastoderma edule</i>	Species
658	0	Yes	<i>Cerastoderma edule</i>	Species	Contig	658	0	Yes	<i>Cerastoderma edule</i>	Species	100	<i>Cerastoderma edule</i>	Species
658	0	Yes	<i>Clymenura clypeata</i>	Species	Contig	617	0	Yes	<i>Clymenura clypeata</i>	Species	100	<i>Clymenura clypeata</i>	Species
658	0	Yes	<i>Cochlodesma praetenu</i>	Species	Contig	646	0	Yes	<i>Cochlodesma praetenu</i>	Species	100	<i>Cochlodesma praetenu</i>	Species
658	0	Yes	<i>Clymenura clypeata</i>	contamination	-	-	-	Yes	no sequence	no sequence	-	<i>Cochlodesma praetenu</i>	Species
658	0	Yes	<i>Crangon crangon</i>	Species	Contig	658	0	Yes	<i>Crangon crangon</i>	Species	100	<i>Crangon crangon</i>	Species
658	0	Yes	<i>Crangon crangon</i>	Species	Contig	658	0	Yes	<i>Crangon crangon</i>	Species	100	<i>Crangon crangon</i>	Species
658	0	Yes	<i>Facelina bostoniensis</i>	Species	Contig	658	0	Yes	<i>Facelina bostoniensis</i>	Species	100	<i>Facelina bostoniensis</i>	Species
658	0	Yes	<i>Gammarus locusta</i>	Species	Contig	658	0	Yes	<i>Gammarus locusta</i>	Species	100	<i>Gammarus locusta</i>	Species
656	0.5	No	<i>Gammarus locusta</i>	Species	Contig	783	2.2	No	no match	contamination	-	<i>Gammarus locusta</i>	Species
658	0	Yes	<i>Gammarus salinus</i>	Species	Contig	658	0	Yes	<i>Gammarus salinus</i>	Species	100	<i>Gammarus salinus</i>	Species
658	0	Yes	<i>Hediste diversicolor</i>	Species	Contig	658	0	Yes	<i>Hediste diversicolor</i>	Species	100	<i>Hediste diversicolor</i>	Species
658	0	Yes	<i>Hediste diversicolor</i>	Species	-	-	-	Yes	no sequence	no sequence	-	<i>Hediste diversicolor</i>	Species
658	0	Yes	<i>Hippolyte varians</i>	Species	Contig	658	0	Yes	<i>Hippolyte varians</i>	Species	100	<i>Hippolyte varians</i>	Species
658	0	Yes	<i>Hippolyte varians</i>	Species	Contig	658	0	Yes	<i>Hippolyte varians</i>	Species	100	<i>Hippolyte varians</i>	Species
658	0	Yes	<i>Idotea balthica</i>	Species	LCO only	644	0	Yes	<i>Idotea balthica</i>	Species	99.8	<i>Idotea balthica</i>	Species
658	0	Yes	<i>Lacuna vincta</i>	Species	Contig	658	0	Yes	<i>Lacuna vincta</i>	Species	100	<i>Lacuna vincta</i>	Species
658	0	Yes	<i>Lacuna vincta</i>	Species	Contig	658	0	Yes	<i>Lacuna vincta</i>	Species	100	<i>Lacuna vincta</i>	Species
658	0	Yes	<i>Littorina saxatilis</i>	Species	Contig	658	0	Yes	<i>Littorina saxatilis</i>	Species	100	<i>Littorina saxatilis</i>	Species
656	0.6	No	<i>Littorina saxatilis</i>	Species	LCO only	662	0	Yes	no match	contamination	-	<i>Littorina saxatilis</i>	Species
658	0	Yes	Lysianassidae	Family	Contig	658	0	Yes	Lysianassidae	Family	100	Lysianassidae	Family
658	0	Yes	Lysianassidae	Family	Contig	658	0	Yes	Lysianassidae	Family	100	Lysianassidae	Family
655	0.5	No	<i>Macoma balthica</i>	Species	Contig	655	5.3	No	<i>Macoma</i>	Genus	96.5	<i>Macoma balthica</i>	Species

655	0	Yes	<i>Macoma balthica</i>	Species	Contig	656	0	Yes	<i>Macoma balthica</i>	Species	100	<i>Macoma balthica</i>	Species
658	0	Yes	<i>Macropodia deflexa</i>	Species	Contig	639	0	Yes	<i>Macropodia deflexa</i>	Species	100	<i>Macropodia deflexa</i>	Species
658	0	Yes	<i>Macropodia rostrata</i>	Species	Contig	658	0	Yes	<i>Macropodia rostrata</i>	Species	100	<i>Macropodia rostrata</i>	Species
658	0	Yes	<i>Macropodia rostrata</i>	Species	Contig	658	0	Yes	<i>Macropodia rostrata</i>	Species	100	<i>Macropodia rostrata</i>	Species
658	0	Yes	<i>Magelona filiformis</i>	Species	Contig	659	0	Yes	<i>Magelona filiformis</i>	Species	99.8	<i>Magelona filiformis</i>	Species
661	0	Yes	<i>Mytilus</i>	Genus	Contig	661	0	Yes	<i>Mytilus</i>	Genus	100	<i>Mytilus</i> sp.	Genus
661	0	Yes	<i>Mytilus</i>	Genus	Contig	661	0	Yes	<i>Mytilus</i>	Genus	100	<i>Mytilus</i> sp.	Genus
658	0.3	No	no match	contamination	LCO only	617	0	Yes	<i>Nicolea zostericola</i>	Species	-	<i>Nicolea zostericola</i>	Species
658	0	Yes	<i>Pagurus bernhardus</i>	Species	Contig	658	0	Yes	<i>Pagurus bernhardus</i>	Species	100	<i>Pagurus bernhardus</i>	Species
658	0	Yes	<i>Palaemon serratus</i>	Species	Contig	658	0.2	Yes	<i>Palaemon serratus</i>	Species	99.9	<i>Palaemon serratus</i>	Species
658	0	Yes	<i>Palaemon serratus</i>	Species	LCO only	673	0	No	no match	contamination	-	<i>Palaemon serratus</i>	Species
658	0	Yes	<i>Peringia ulvae</i>	Species	Contig	625	0	No	<i>Peringia ulvae</i>	Species	99.8	<i>Peringia ulvae</i>	Species
658	0	Yes	<i>Peringia ulvae</i>	Species	Contig	658	0	Yes	<i>Peringia ulvae</i>	Species	100	<i>Peringia ulvae</i>	Species
658	0	Yes	<i>Platynereis dumerilii</i>	Species	contig	658	0	Yes	<i>Platynereis dumerilii</i>	Species	100	<i>Platynereis dumerilii</i>	Species
655	0	Yes	Polycladida	Order	Contig	632	0	Yes	Polycladida	Order	100	Polycladida	Order
658	0	Yes	<i>Praunus flexuosus</i>	Species	Contig	658	0	Yes	<i>Praunus flexuosus</i>	Species	100	<i>Praunus flexuosus</i>	Species
658	0	Yes	<i>Praunus flexuosus</i>	Species	Contig	658	0	Yes	<i>Praunus flexuosus</i>	Species	100	<i>Praunus flexuosus</i>	Species
658	0	Yes	<i>Praunus</i>	Genus	Contig	643	0	Yes	<i>Praunus</i>	Genus	100	<i>Praunus neglectus</i>	Species
658	0	Yes	<i>Praunus</i>	Genus	Contig	658	0	Yes	<i>Praunus</i>	Genus	100	<i>Praunus neglectus</i>	Species
658	0	Yes	<i>Psammechinus miliaris</i>	Species	Contig	658	0.2	Yes	<i>Psammechinus miliaris</i>	Species	99.9	<i>Psammechinus miliaris</i>	Species
657	4.9	No	<i>Peringia ulvae</i>	contamination	Contig	661	0	Yes	<i>Pygospio elegans</i>	Species	-	<i>Pygospio elegans</i>	Species
661	0	Yes	<i>Pygospio elegans</i>	Species	Contig	661	0	Yes	<i>Pygospio elegans</i>	Species	100	<i>Pygospio elegans</i>	Species
658	0	Yes	<i>Rissoa lilacina</i>	Species	Contig	658	0	Yes	<i>Rissoa lilacina</i>	Species	100	<i>Rissoa lilacina</i>	Species
658	0	Yes	<i>Rissoa membranacea</i>	Species	Contig	658	0	Yes	<i>Rissoa membranacea</i>	Species	100	<i>Rissoa membranacea</i>	Species
655	0	Yes	<i>Scoloplos armiger</i>	Species	Contig	655	0	Yes	<i>Scoloplos armiger</i>	Species	100	<i>Scoloplos armiger</i>	Species
658	0	Yes	<i>Steromphala cineraria</i>	Species	Contig	658	0	Yes	<i>Steromphala cineraria</i>	Species	100	<i>Steromphala cineraria</i>	Species
658	0	Yes	<i>Steromphala cineraria</i>	Species	LCO only	642	0	Yes	<i>Steromphala cineraria</i>	Species	100	<i>Steromphala cineraria</i>	Species
652	0	Yes	<i>Trivia monacha</i>	Species	Contig	599	0	Yes	<i>Trivia monacha</i>	Species	100	<i>Trivia monacha</i>	Species
658	0	Yes	<i>Tubificoides</i>	Genus	Contig	658	0	Yes	<i>Tubificoides</i>	Genus	100	<i>Tubificoides</i> sp.	Genus
658	0	Yes	<i>Tubificoides</i>	Genus	Contig	658	0	Yes	<i>Tubificoides</i>	Genus	100	<i>Tubificoides</i> sp.	Genus
658	0	Yes	<i>Tubificoides benedii</i>	Species	Contig	656	0	Yes	<i>Tubificoides benedii</i>	Species	100	<i>Tubificoides benedii</i>	Species
658	0	Yes	<i>Tubificoides benedii</i>	Species	Contig	658	0	Yes	<i>Tubificoides benedii</i>	Species	100	<i>Tubificoides benedii</i>	Species