**Table 1. Dietary screening of full mitogenome references**

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| **Species** | **Common name** | **ncbi** |
| *Canis\_lupus\_familiaris* | Dog | NC\_002008.4 |
| *Arctocephalus\_forsteri* | Fur seal | NC\_004023.1 |
| *Phocarctos\_hookeri* | Sea lion | NC\_008418.1 |
| *Physeter\_catodon* | Sperm whale | NC\_002503.2 |
| *Kogia\_breviceps* | Pygmy sperm whale | NC\_005272.1 |
| *Eschrichtius\_robustus* | Gray whale | NC\_005270.1 |
| *Mesoplodon\_grayi* | Gray's beaked whale | NC\_023830.1 |
| *Cephalorhynchus\_hectori* | Hector's dolphin | KC312626.1 |
| *Eubalaena\_australis* | Southern right whale | NC\_006930.1 |
| *Rattus\_exulans* | Pacific rat | NC\_012389.1 |
| *Notolabrus\_celidotus* | Spotty wrasse | CM019797.1 |
| *Cheilodactylus\_variegatus* | Red moki | NC\_026899.1 |
| *Pagrus\_auratus* | Snapper | NC\_088427.1 |
| *Trachurus\_japonicus* | Japanese mackerel | NC\_002813.1 |
| *Thyrsites\_atun* | Barracouta | NC\_066972.1 |
| *Gadus\_macrocephalus* | Pacific cod | NC\_036931.1 |
| *Lateolabrax\_maculatus* | Spotted seabass | NC\_018045.1 |
| *Epinephelus\_fuscoguttatus* | Brown-marbled grouper | NC\_020046.1 |
| *Sparus\_aurata* | Gilt-head seabream | NC\_024236.1 |
| *Plectropomus\_leopardus* | Coral grouper | NC\_008449.1 |
| *Echeneis\_naucrates* | Live sharksucker | NC\_022508.1 |
| *Myripristis\_murdjan* | Soldierfish | NC\_085253.1 |
| *Sardinops\_sagax* | Pilchard | NC\_057117.1 |
| *Chelidonichthys\_kumu* | Kumu | NC\_035059.1 |
| *Aldrichetta\_forsteri* | Yellow-eyed mullet | NC\_017879.1 |
| *Colistium\_nudipinnis* | Black flounder | JQ639063.1 |
| *Genypterus\_blacodes* | Ling | CM100769.1 |
| *Arripis\_trutta* | Kahawai | NC\_015787.1 |
| *Mustelus\_griseus* | Grey smooth-hound shark | NC\_023527.1 |
| *Dipturus\_nasutus* | Long-nosed skate | MF278960.1 |
| *Dinornis\_giganteus* | Giant moa | NC\_002672.1 |
| *Harpagornis\_moorei* | Haast's eagle | MK294166.1 |
| *Apteryx\_owenii* | Little spotted kiwi | NC\_013806.1 |
| *Phalacrocorax\_carbo* | Great cormorant | NC\_027267.1 |
| *Bubulcus\_ibis* | Cattle egret | NC\_025917.1 |
| *Ardenna\_pacifica* | Wedge-tailed shearwater | NC\_057528.1 |
| *Pelecanoides\_urinatrix* | Common diving petrel | NC\_052809.1 |
| *Eudyptula\_minor* | Little penguin | NC\_004538.1 |
| *Eudyptes\_robustus* | Snares penguin | MK290247.1 |
| *Pelagodroma\_marina* | White-faced storm petrel | KC875856.1 |
| *Prosthemadera\_novaeseelandiae* | Tūī | NC\_029144.1 |
| *Megadyptes\_antipodes* | Yellow-eyed penguin | MK761003.1 |
| *Megadyptes\_waitaha* | Waitaha penguin | MK290258.1 |

**Table 2. Dietary screening of COI region references**

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| **Species** | **Common name** | **ncbi** |
| *Odax\_cyanoallix* | Blue cod | HM422251.1 |
| *Meuschenia\_scaber* | Leatherjacket | GU806141.1 |
| *Notothenia\_microlepidota* | Yellowbelly rock cod | MN123447.1 |
| *Epinephelus\_daemelii* | Black cod (Queensland grouper) | MH707750.1 |
| *Conger\_wilsoni* | Southern conger | EF609337.1 |
| *Conger\_verreauxi* | Longfin conger | EF609336.1 |
| *Caprodon\_longimanus* | Pink maomao | DQ107893.1 |
| *Helicolenus\_percoides* | Jock stewart / Red gurnard perch | DQ108054.1 |
| *Rhombosolea\_plebeia* | Sand flounder | GU806164.1 |
| *Notolabrus\_fucicola* | Banded wrasse | HQ956258.1 |
| *Nemadactylus\_macropterus* | Tarakihi | KX781853.1 |
| *Trachurus\_japonicus* | Japanese mackerel | KP267655.1 |
| *Pagrus\_auratus* | Snapper | KJ012398.1 |
| *Thyrsites\_atun* | Barracouta | JF494694.1 |
| *Parapercis\_colias* | Blue cod | EF609428.1 |
| *Pseudophycis\_bachus* | Red cod | EF609444.1 |
| *Pachyptila\_vittata* | Broad-billed prion | MK261845.1 |
| *Puffinus\_griseus* | Sooty shearwater | JN801370.1 |
| *Puffinus\_gavia* | Fluttering shearwater | MK261804.1 |
| *Anarhynchus\_bicinctus* | Wrybill | MK261953.1 |
| *Anthornis\_melanura* | Bellbird | MK261898.1 |
| *Cyanoramphus\_novaezelandiae* | Red-crowned parakeet | MK262152.1 |
| *Lunella\_smaragdus* | Cat’s eye snail | AB588860.1 |
| *Paphies\_subtriangulata* | Tuatua | HM887971.1 |
| *Austrovenus\_stutchburyi* | New Zealand cockle | JN200827.1 |
| *Melagraphia\_aethiops* | Black nerite | AY858100.1 |
| *Crepidula\_monoxyla* | Slipper limpet | AF546039.1 |
| *Mytilus\_edulis* | Blue mussel | HM180704.1 |
| *Perna\_canaliculus* | Green-lipped mussel | GU324171.1 |
| *Paphies\_australis* | Pipi | HM888033.1 |
| *Cellana\_strigilis* | Limpet | AB433649.1 |

**Table 3. Dietary screening of COI region references**

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| **Species** | **Common name** | **ncbi** |
| *Lagenaria\_siceraria* | Bottle gourd | NC\_036808.1 |
| *Ipomoea\_batatas* | Sweet potato | OM808940.1 |
| *Cordyline\_indivisa* | Mountain cabbage tree | NC\_035998.1 |
| *Pteridium\_aquilinum* | Bracken fern | NC\_014348.1 |
| *Rorippa\_palustris* | Marsh yellowcress | NC\_070422.1 |
| *Arabidopsis\_thaliana* | Thale cress | NC\_000932.1 |
| *Sonchus\_kirkii* | New Zealand sow thistle | PP100725.1 |
| *Asplenium\_nidus* | Bird’s nest fern | NC\_045119.1 |
| *Broussonetia\_papyrifera* | Paper mulberry | MZ662865.1 |
| *Colocasia\_esculenta* | Taro | NC\_016753.1 |
| *Corynocarpus\_laevigata* | Karaka | NC\_014807.1 |
| *Dioscorea\_alata* | Purple yam | NC\_039707.1 |

**Table 4. Parasite screening of COI region references**

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| **Species** | **Common name** | **ncbi** | **Parasite** |
| Anisakis\_pegreffii | Anisakis worm | NC\_034329.1 | Mitochondrion |
| Ascaris\_lumbricoides | Giant roundworm | NC\_016198.1 | Mitochondrion |
| Dipylidium\_caninum | Flea tapeworm | OK523384.1 | Mitochondrion |
| Toxocara\_canis | Dog roundworm | NC\_010690.1 | Mitochondrion |
| Calodium\_hepaticum | Liver capillariid | LC425008.1 | 18S |
| Calodium\_hepaticum | Liver capillariid | PQ764977.1 | SSU rRNA |