

## Appendix 2. GI numbers for all contaminant sequences.

Gene	GenBank species name	GenBank GI
12S	Rossia_macrosoma	48994427
	Sepiola_sp_JMS_2004	45510927
16S	Architeuthis_sp_BED_2003	37622176
	Berryteuthis_environmental_sample	184216289
	Berryteuthis_magister	179481868
	Eledone_cirrrosa	16944395
	Eledone_cirrrosa	22384882
	Eledone_cirrrosa	22384880
	Eledone_cirrrosa	22384878
	Eledone_cirrrosa	22384876
	Eledone_cirrrosa	22384874
	Eledone_palari	18073268
	Enteroctopus_dofleini	179481870
	Gonatus_sp_ADS_2008	179481869
	Graneledone_taniwha	18073704
	Loligo_gahi	22384900
	Loligo_gahi	22384898
	Loligo_gahi	22384896
	Loligo_gahi	22384894
	Loligo_gahi	22384892
	Loligo_gahi	22384890
	Loligo_gahi	22384888
	Loligo_opalescens	179481867
	Octopus_vulgaris	22384886
	Pyroteuthis_margaritifera	209969925
	Sepia_latimanus	28207581
	Sepia_officinalis	21842310
	Sepiola_sp_JMS_2004	45510944
	Sepioteuthis_lessoniana	209969913
	Todarodes_sagittatus	21842311
	Uroteuthis_chinensis	14150652
	Uroteuthis_edulis	14150653
18S	Ancistrocheirus_lesueuri	49482096
	Benthoctopus_sp_ARL_2004	49482071
	Heteroteuthis_sp_Spain_WK	42627265
	Histioteuthis_sp_Spain_WK	42627266
	Loligo_vulgaris	42627264
	Sepia_elegans	18026325
	Sepia_elegans	18026324
	Sepia_officinalis	42627260
	Sepietta_sp_France_WK	42627262
	Spirula_spirula	42627259
28S	Benthoctopus_sp_ARL_2004	49482129
	Euprymna_sp	18073642
	Histioteuthis_sp_YJP_2002	34369204
	Idiosepius_pygmaeus	34542093
	Idiosepius_pygmaeus	18073644
	Loligo_forbesi	18073643
	Sepia_officinalis	18076660
	Sepioteuthis_lessoniana	18076666
	Stauroteuthis_syrtsensis	82622106

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CO1	Berryteuthis_magister	58202170
	Berryteuthis_magister	62084189
	Berryteuthis_magister	209970157
	Euprymna_morsei	62084197
	Euprymna_morsei	34542124
	Euprymna_tasmanica	110006704
	Heteroteuthis_dispar	5353816
	Illex_cf_coindetii	87042900
	Illex_cf_coindetii	87042898
	Illex_cf_coindetii	87042890
	Illex_cf_coindetii	87042888
	Illex_cf_coindetii	87042886
	Illex_cf_coindetii	87042884
	Illex_cf_coindetii	87042880
	Illex_cf_oxygonius	87042896
	Illex_cf_oxygonius	87042894
	Illex_cf_oxygonius	87042892
	Illex_cf_oxygonius	87042882
	Illex_cf_oxygonius	87042878
	Illex_cf_oxygonius	87042876
	Rondeletiola_minor	5353818
	Sepia_esculenta	13752531
	Sepia_officinalis	18026441
	Sepia_subtenuipes	242117689
	Thysanoteuthis_rhombus	62084187
cytb	Opisthoteuthis_sp_SA2_MG_2004	76359314
	Rossia_pacifica	237648951
H3	Benthoctopus_sp_ARL_2004	50346989
	Nautilus_scribiculatus	3002652
	Sepia_officinalis	37654361
odh	Pterygioteuthis_microlampas	48994497
	Sepioloa_sp_JMS_2004	45510981
	Sthenoteuthis_oualaniensis	48994499
	Todaropsis_eblanae	48994501
opsin	Rossia_macrosoma	48994589
	Sepioloa_sp_JMS_2004	45511082
pax6	Argonauta_nodosa	45511002
	Sepioloa_sp_JMS_2004	45511034