

SMT1

Sequence-based identification results using GenBank BLASTn and BOLD ID Engine, as re-interpreted from Appendix 2 of Chacón-Monge et al. (2024)

Process ID	Morphology-based ID	GenBank BLASTn best match	Ident. %	Sp. ID	Gen. ID	Result	BOLD ID Engine best match	Ident. %	Sp. ID	Gen. ID	Result	Exclude	Notes
BMAR881-20	Amphiuridae	<i>Amphipholis januarii</i>	82.65	NA	NA	gap	No Match	NA	NA	NA	gap		
BMAR602-20	Amphiuridae	<i>Amphipholis squamata</i>	96.2	NA	NA	gap	<i>Amphipholis cf. squamata</i>	97.39	NA	NA	improved		
BMAR356-19	<i>Arbacia stellata</i>	<i>Arbacia stellata</i>	99.83	1	1	match	No Match	NA	0	0	gap		
BMAR855-20	<i>Arbacia stellata</i>	<i>Arbacia stellata</i>	99.7	1	1	match	No Match	NA	0	0	gap		
BMAR856-20	<i>Arbacia stellata</i>	<i>Arbacia stellata</i>	99.7	1	1	match	No Match	NA	0	0	gap		
BMAR905-20	<i>Arbacia stellata</i>	<i>Arbacia stellata</i>	99.54	1	1	match	No Match	NA	0	0	gap		
BMAR1151-20	<i>Arbacia stellata</i>	<i>Arbacia stellata</i>	99.7	1	1	match	No Match	NA	0	0	gap		
BMAR1193-20	<i>Arbacia stellata</i>	<i>Arbacia stellata</i>	99.7	1	1	match	No Match	NA	0	0	gap		
BMAR592-20	<i>Arbacia stellata</i>	<i>Holothuria arenicola</i>	87.4	0	0	gap	<i>Holothuria arenicola</i>	99.69	0	0	error	TRUE	contamination with <i>Holothuria arenicola</i>
BMAR561-20	<i>Arbacia stellata</i>	<i>Arbacia stellata</i>	99.7	1	1	match	No Match	NA	0	0	gap		
BMAR1180-20	<i>Asteropsis carinifera</i>	<i>Stellaster equestris</i>	83.87	0	0	gap	<i>Asteropsis carinifera</i>	98.93	1	1	match		
BMAR1196-20	<i>Asteropsis carinifera</i>	<i>Oreaster clavatus</i>	83.92	0	0	gap	<i>Asteropsis carinifera</i>	98.93	1	1	match		
BMAR518-20	<i>Asteropsis carinifera</i>	<i>Asteropsis carinifera</i>	87.47	0	0	gap	<i>Asteropsis carinifera</i>	99.54	1	1	match		
BMAR641-20	<i>Astropyga pulvinata</i>	<i>Proserpinaster neozelanicus</i>	81.2	0	0	gap	<i>Nidorellia armata</i>	100	0	0	error	TRUE	contamination with <i>Nidorellia armata</i>
BMAR495-20	<i>Astropyga pulvinata</i>	<i>Astropyga pulvinata</i>	99.64	1	1	match	No Match	NA	0	0	gap		
BMAR535-20	<i>Astropyga pulvinata</i>	<i>Tripneustes depressus</i>	100	0	0	error	<i>Tripneustes kermadecensis</i>	100	0	0	error	TRUE	contamination with <i>Tripneustes depressus</i>
BMAR552-20	<i>Astropyga pulvinata</i>	<i>Astropyga pulvinata</i>	99.7	1	1	match	No Match	NA	0	0	gap		
BMAR595-20	<i>Brissus obesus</i>	<i>Metalia nobilis</i>	99.21	0	0	error	No Match	NA	0	0	gap		
BMAR635-20	<i>Brissus obesus</i>	<i>Toxopneustes roseus</i>	99.74	0	0	error	<i>Toxopneustes pileolus</i>	97.33	0	0	error	TRUE	contamination with <i>Toxopneustes pileolus</i>
BMAR864-20	<i>Chiridota aponocrita</i>	<i>Leptosynapta clarki</i>	85.91	0	0	gap	No Match	NA	0	0	gap		
BMAR877-20	<i>Chiridota aponocrita</i>	<i>Leptosynapta clarki</i>	85.55	0	0	gap	No Match	NA	0	0	gap		
BMAR894-20	<i>Chiridota aponocrita</i>	<i>Leptosynapta clarki</i>	85.64	0	0	gap	No Match	NA	0	0	gap		
BMAR941-20	<i>Chiridota aponocrita</i>	<i>Leptosynapta clarki</i>	85.76	0	0	gap	No Match	NA	0	0	gap		
BMAR1128-20	<i>Chiridota aponocrita</i>	<i>Leptosynapta clarki</i>	85.91	0	0	gap	No Match	NA	0	0	gap		
BMAR1158-20	<i>Chiridota aponocrita</i>	<i>Leptosynapta clarki</i>	85.91	0	0	gap	No Match	NA	0	0	gap		
BMAR1203-20	<i>Chiridota aponocrita</i>	<i>Leptosynapta clarki</i>	85.67	0	0	gap	No Match	NA	0	0	gap		
BMAR296-19	<i>Chiridota aponocrita</i>	<i>Leptosynapta clarki</i>	85.37	0	0	gap	No Match	NA	0	0	gap		
BMAR530-20	<i>Chiridota aponocrita</i>	<i>Leptosynapta clarki</i>	85.92	0	0	gap	No Match	NA	0	0	gap		
BMAR543-20	<i>Chiridota aponocrita</i>	<i>Leptosynapta clarki</i>	85.6	0	0	gap	No Match	NA	0	0	gap		

BMAR945-20	<i>Cucumaria flamma</i>	<i>Neocucumis proteus</i>	84.5	0	0	gap	No Match	NA	0	0	gap		
BMAR1202-20	<i>Cucumaria flamma</i>	<i>Neocucumis proteus</i>	84.65	0	0	gap	No Match	NA	0	0	gap		
BMAR859-20	<i>Diadema mexicanum</i>	<i>Diadema mexicanum</i>	99.66	1	1	match	<i>Diadema mexicanum</i>	99.78	1	1	match		
BMAR297-19	<i>Diadema mexicanum</i>	<i>Diadema mexicanum</i>	100	1	1	match	<i>Diadema mexicanum</i>	100	1	1	match		
BMAR506-20	<i>Diadema mexicanum</i>	<i>Diadema mexicanum</i>	99.85	1	1	match	<i>Diadema mexicanum</i>	100	1	1	match		
BMAR533-20	<i>Diadema mexicanum</i>	<i>Diadema mexicanum</i>	99.85	1	1	match	<i>Diadema mexicanum</i>	99.78	1	1	match		
BMAR553-20	<i>Diadema mexicanum</i>	<i>Diadema mexicanum</i>	100	1	1	match	<i>Diadema mexicanum</i>	100	1	1	match		
BMAR599-20	<i>Diadema mexicanum</i>	<i>Linckia laevigata</i>	83.99	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification : mismatch at class level
BMAR640-20	<i>Diadema mexicanum</i>	<i>Proserpinaster neozelanicus</i>	81.25	0	0	gap	<i>Nidorellia armata</i>	100	0	0	error	TRUE	contamination with <i>Nidorellia armata</i>
BMAR367-19	<i>Echinometra vanbrunti</i>	<i>Echinometra vanbrunti</i>	99.69	1	1	match	No Match	NA	0	0	gap		
BMAR591-20	<i>Echinometra vanbrunti</i>	<i>Echinometra vanbrunti</i>	99.09	1	1	match	No Match	NA	0	0	gap		
BMAR350-19	<i>Echinometra vanbrunti</i>	<i>Echinometra vanbrunti</i>	99.21	1	1	match	No Match	NA	0	0	gap		
BMAR860-20	<i>Euapta godeffroyi</i>	<i>Holothuria impatiens</i>	98.29	0	0	error	No Match	NA	0	0	gap	TRUE	contamination with <i>Holothuria impatiens</i>
BMAR857-20	<i>Eucidaris thouarsii</i>	<i>Eucidaris thouarsii</i>	99.84	1	1	match	<i>Eucidaris thouarsii</i>	99.47	1	1	match		
BMAR869-20	<i>Eucidaris thouarsii</i>	<i>Eucidaris thouarsii</i>	100	1	1	match	No Match	NA	0	0	gap		
BMAR1115-20	<i>Eucidaris thouarsii</i>	<i>Eucidaris thouarsii</i>	99.24	1	1	match	<i>Eucidaris thouarsii</i>	99.25	1	1	match		
BMAR597-20	<i>Eucidaris thouarsii</i>	<i>Toxopneustes roseus</i>	100	0	0	error	<i>Toxopneustes pileolus</i>	97.64	0	0	error	TRUE	contamination with <i>Toxopneustes roseus</i>
BMAR481-20	<i>Eucidaris thouarsii</i>	<i>Eucidaris thouarsii</i>	99.39	1	1	match	<i>Eucidaris thouarsii</i>	99.25	1	1	match		
BMAR529-20	<i>Eucidaris thouarsii</i>	<i>Eucidaris thouarsii</i>	99.66	1	1	match	<i>Eucidaris thouarsii</i>	99.5	1	1	match		
BMAR942-20	<i>Holothuria fuscocinerea</i>	<i>Holothuria pluricuriosa</i>	98.65	0	1	error	No Match	NA	0	0	gap		
BMAR933-20	<i>Holothuria arenicola</i>	<i>Holothuria arenicola</i>	87.56	0	0	gap	<i>Holothuria arenicola</i>	99.37	1	1	match		
BMAR937-20	<i>Holothuria arenicola</i>	<i>Holothuria arenicola</i>	87.4	0	0	gap	<i>Holothuria arenicola</i>	99.37	1	1	match		
BMAR1147-20	<i>Holothuria arenicola</i>	<i>Holothuria arenicola</i>	87.71	0	0	gap	<i>Holothuria arenicola</i>	98	1	1	match		
BMAR1201-20	<i>Holothuria arenicola</i>	<i>Holothuria arenicola</i>	87.5	0	0	gap	<i>Holothuria arenicola</i>	98.24	1	1	match		
BMAR885-20	<i>Holothuria arenicola</i>	<i>Holothuria arenicola</i>	87.71	0	0	gap	<i>Holothuria arenicola</i>	99.69	1	1	match		
BMAR861-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	98.51	1	1	match	No Match	NA	0	0	gap		
BMAR875-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	98.51	1	1	match	No Match	NA	0	0	gap		
BMAR901-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	99.36	1	1	match	No Match	NA	0	0	gap		
BMAR915-20	<i>Holothuria impatiens</i>	<i>Holothuria arenicola</i>	87.71	0	0	gap	<i>Holothuria arenicola</i>	98.16	0	1	error		
BMAR916-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	98.72	1	1	match	No Match	NA	0	0	gap		
BMAR938-20	<i>Holothuria impatiens</i>	<i>Holothuria hilla</i>	91.49	0	0	gap	No Match	NA	0	0	gap		
BMAR1120-20	<i>Holothuria impatiens</i>	<i>Holothuria languens</i>	98.88	0	1	error	No Match	NA	0	0	gap		
BMAR1122-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	99.74	1	1	match	No Match	NA	0	0	gap		

BMAR1141-20	<i>Holothuria impatiens</i>	<i>Holothuria imitans</i>	99.36	0	1	error	<i>Holothuria imitans</i>	98.05	0	1	error	TRUE	probable contamination/misidentification with <i>Holothuria imitans</i>
BMAR1139-20	<i>Holothuria impatiens</i>	<i>Holothuria languens</i>	100	0	1	error	No Match	NA	0	0	gap		
BMAR1132-20	<i>Holothuria impatiens</i>	<i>Holothuria arenicola</i>	87.4	0	0	gap	<i>Holothuria arenicola</i>	99.69	0	1	error	TRUE	probable contamination/misidentification with <i>Holothuria arenicola</i>
BMAR1127-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	98.72	1	1	match	No Match	NA	0	0	gap		
BMAR1156-20	<i>Holothuria impatiens</i>	<i>Holothuria imitans</i>	99.36	0	1	error	<i>Holothuria imitans</i>	97.84	0	1	error	TRUE	probable contamination/misidentification with <i>Holothuria imitans</i>
BMAR1159-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	99.36	1	1	match	No Match	NA	0	0	gap		
BMAR1161-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	99.74	1	1	match	No Match	NA	0	0	gap		
BMAR309-19	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	100	1	1	match	No Match	NA	0	0	gap		
BMAR327-19	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	100	1	1	match	No Match	NA	0	0	gap		
BMAR364-19	<i>Holothuria impatiens</i>	<i>Holothuria imitans</i>	99.36	0	1	error	<i>Holothuria imitans</i>	97.84	0	1	error	TRUE	probable contamination/misidentification with <i>Holothuria imitans</i>
BMAR380-19	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	100	1	1	match	No Match	NA	0	0	gap		
BMAR567-20	<i>Holothuria impatiens</i>	<i>Holopneustes purpurescens</i>	84.12	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: mismatch at class level
BMAR573-20	<i>Holothuria impatiens</i>	<i>Holothuria arenicola</i>	87.4	0	0	gap	No Match	NA	0	0	gap		
BMAR576-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	99.74	1	1	match	No Match	NA	0	0	gap		
BMAR579-20	<i>Holothuria impatiens</i>	<i>Holothuria arenicola</i>	91.2	0	0	gap	<i>Holothuria arenicola</i>	98.86	0	1	error		
BMAR608-20	<i>Holothuria impatiens</i>	<i>Holothuria arenicola</i>	90.41	0	0	gap	<i>Holothuria arenicola</i>	99.69	0	1	error	TRUE	probable contamination/misidentification with <i>Holothuria arenicola</i>
BMAR609-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	99.74	1	1	match	No Match	NA	0	0	gap		
BMAR622-20	<i>Holothuria impatiens</i>	<i>Ophionereis reticulata</i>	90.06	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: mismatch at class level
BMAR650-20	<i>Holothuria impatiens</i>	<i>Holothuria arenicola</i>	87.56	0	0	gap	<i>Holothuria arenicola</i>	98.16	0	1	error		
BMAR474-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	99.74	1	1	match	No Match	NA	0	0	gap		
BMAR538-20	<i>Holothuria impatiens</i>	<i>Pentamera calcigera</i>	84.91	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: mismatch at order level
BMAR539-20	<i>Holothuria impatiens</i>	<i>Holothuria arguinensis</i>	87.29	0	0	gap	<i>Holothuria arenicola</i>	99.37	0	1	error	TRUE	probable contamination/misidentification with <i>Holothuria arenicola</i>
BMAR544-20	<i>Holothuria impatiens</i>	<i>Holothuria imitans</i>	99.57	0	1	error	<i>Holothuria imitans</i>	98.05	0	1	error	TRUE	probable contamination/misidentification with <i>Holothuria imitans</i>
BMAR548-20	<i>Holothuria impatiens</i>	<i>Holothuria arenicola</i>	87.5	0	0	gap	<i>Holothuria arenicola</i>	98.56	0	1	error		

BMAR1123-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	99.74	1	1	match	No Match	NA	0	0	gap		
BMAR1119-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	100	1	1	match	No Match	NA	0	0	gap		
BMAR1157-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	99.74	1	1	match	No Match	NA	0	0	gap		
BMAR515-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	100	1	1	match	No Match	NA	0	0	gap		
BMAR549-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	99.74	1	1	match	No Match	NA	0	0	gap		
BMAR480-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	98.51	1	1	match	No Match	NA	0	0	gap		
BMAR940-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	99.48	1	1	match	No Match	NA	0	0	gap		
BMAR1160-20	<i>Holothuria impatiens</i>	<i>Holothuria impatiens</i>	100	1	1	match	No Match	NA	0	0	gap		
BMAR912-20	<i>Holothuria kefersteinii</i>	<i>Holothuria leucospilota</i>	89.67	0	0	gap	No Match	NA	0	0	gap		
BMAR1133-20	<i>Holothuria kefersteinii</i>	<i>Holothuria kefersteinii</i>	99.59	1	1	match	No Match	NA	0	0	gap		
BMAR1130-20	<i>Holothuria pardalis</i>	<i>Holothuria arenicola</i>	87.4	0	0	gap	<i>Holothuria arenicola</i>	99.69	0	1	error	TRUE	probable contamination/misidentification with <i>Holothuria imitans</i>
BMAR378-19	<i>Holothuria portovallartensis</i>	<i>Holothuria portovallartensis</i>	98.8	1	1	match	No Match	NA	0	0	gap		
BMAR932-20	<i>Holothuria rigida</i>	<i>Holothuria edulis</i>	84.98	0	0	gap	No Match	NA	0	0	gap		
BMAR946-20	<i>Holothuria rigida</i>	<i>Holothuria edulis</i>	85.03	0	0	gap	No Match	NA	0	0	gap		
BMAR1143-20	<i>Holothuria rigida</i>	<i>Holothuria edulis</i>	89.39	0	0	gap	No Match	NA	0	0	gap		
BMAR475-20	<i>Holothuria rigida</i>	<i>Holothuria arenicola</i>	84.51	0	0	gap	No Match	NA	0	0	gap		
BMAR540-20	<i>Holothuria rigida</i>	<i>Holothuria edulis</i>	84.65	0	0	gap	No Match	NA	0	0	gap		
BMAR1137-20	<i>Holothuroidea</i>	<i>Apostichopus japonicus</i>	83.28	NA	NA	gap	No Match	NA	NA	NA	gap		
BMAR1182-20	<i>Holothuroidea</i>	<i>Holothuria imitans</i>	91.67	NA	NA	gap	No Match	NA	NA	NA	gap		
BMAR1208-20	<i>Holothuroidea</i>	<i>Holothuria imitans</i>	99.79	NA	NA	improved	<i>Holothuria imitans</i>	98.27	NA	NA	improved		
BMAR581-20	<i>Holothuroidea</i>	<i>Holothuria imitans</i>	99.79	NA	NA	improved	<i>Holothuria imitans</i>	98.27	NA	NA	improved		
BMAR895-20	<i>Isostichopus fuscus</i>	<i>Isostichopus fuscus</i>	100	1	1	match	<i>Isostichopus fuscus</i>	100	1	1	match		
BMAR1163-20	<i>Isostichopus fuscus</i>	<i>Isostichopus fuscus</i>	99.76	1	1	match	<i>Isostichopus fuscus</i>	99.76	1	1	match		
BMAR1199-20	<i>Isostichopus fuscus</i>	<i>Isostichopus fuscus</i>	100	1	1	match	<i>Isostichopus fuscus</i>	100	1	1	match		
BMAR658-20	<i>Isostichopus fuscus</i>	<i>Isostichopus fuscus</i>	100	1	1	match	<i>Isostichopus fuscus</i>	100	1	1	match		
BMAR659-20	<i>Isostichopus fuscus</i>	<i>Isostichopus fuscus</i>	99.77	1	1	match	<i>Isostichopus fuscus</i>	99.52	1	1	match		
BMAR496-20	<i>Isostichopus fuscus</i>	<i>Isostichopus fuscus</i>	100	1	1	match	<i>Isostichopus fuscus</i>	100	1	1	match		
BMAR913-20	<i>Labidodemas americanum</i>	<i>Goniocidaris tubaria</i>	82.52	0	0	gap	No Match	NA	0	0	gap		
BMAR1200-20	<i>Labidodemas americanum</i>	<i>Goniocidaris tubaria</i>	82.52	0	0	gap	No Match	NA	0	0	gap		
BMAR889-20	<i>Labidodemas maccullochi</i>	<i>Ophionereis reticulata</i>	89.65	0	0	gap	No Match	NA	0	0	gap		
BMAR484-19	<i>Labidodemas maccullochi</i>	<i>Labidodemas pertinax</i>	85.41	0	0	gap	No Match	NA	0	0	gap		
BMAR636-20	<i>Lovenia cordiformis</i>	<i>Toxopneustes roseus</i>	99.74	0	0	error	<i>Toxopneustes pileolus</i>	97.33	0	0	error	TRUE	contamination with <i>Toxopneustes roseus</i>

BMAR637-20	<i>Lovenia cordiformis</i>	<i>Lovenia cordiformis</i>	99.39	1	1	match	<i>Lovenia cordiformis</i>	99.14	1	1	match		
BMAR655-20	<i>Lovenia cordiformis</i>	<i>Lovenia cordiformis</i>	99.84	1	1	match	<i>Lovenia cordiformis</i>	99.83	1	1	match		
BMAR560-20	<i>Lovenia cordiformis</i>	<i>Lovenia cordiformis</i>	99.85	1	1	match	<i>Lovenia cordiformis</i>	99.66	1	1	match		
BMAR510-20	<i>Meoma ventricosa</i>	<i>Metalia nobilis</i>	99.39	0	0	error	No Match	NA	0	0	gap		
BMAR527-20	<i>Meoma ventricosa</i>	<i>Metalia nobilis</i>	99.24	0	0	error	No Match	NA	0	0	gap		
BMAR943-20	<i>Mithrodia bradleyi</i>	<i>Mithrodia bradleyi</i>	99.31	1	1	match	<i>Mithrodia bradleyi</i>	99.31	1	1	match		
BMAR1204-20	<i>Mithrodia bradleyi</i>	<i>Mithrodia bradleyi</i>	99.54	1	1	match	<i>Mithrodia bradleyi</i>	99.54	1	1	match		
BMAR304-19	<i>Mithrodia bradleyi</i>	<i>Mithrodia bradleyi</i>	100	1	1	match	<i>Mithrodia bradleyi</i>	100	1	1	match		
BMAR512-20	<i>Mithrodia bradleyi</i>	<i>Mithrodia bradleyi</i>	99.77	1	1	match	<i>Mithrodia bradleyi</i>	99.77	1	1	match		
BMAR565-20	<i>Mithrodia bradleyi</i>	<i>Mithrodia bradleyi</i>	93.31	0	0	gap	<i>Mithrodia bradleyi</i>	99.31	1	1	match		
BMAR862-20	<i>Neocucumis veleronis</i>	<i>Holopneustes purpurescens</i>	84.12	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: mismatch at class level, failure to match to congener sequence in GenBank
BMAR876-20	<i>Neocucumis veleronis</i>	<i>Phyllophorella liuwutiensis</i>	83.44	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: failure to match to congener sequence in GenBank
BMAR888-20	<i>Neocucumis veleronis</i>	<i>Apostichopus japonicus</i>	83.28	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: mismatch at class level, failure to match to congener sequence in GenBank
BMAR891-20	<i>Neocucumis veleronis</i>	<i>Phyllophorella liuwutiensis</i>	83.44	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: failure to match to congener sequence in GenBank
BMAR914-20	<i>Neocucumis veleronis</i>	<i>Apostichopus japonicus</i>	83.28	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: mismatch at class level, failure to match to congener sequence in GenBank
BMAR1131-20	<i>Neocucumis veleronis</i>	<i>Phyllophorella liuwutiensis</i>	83.44	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: failure to match to congener sequence in GenBank
BMAR1146-20	<i>Neocucumis veleronis</i>	<i>Holopneustes purpurescens</i>	84.12	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: mismatch at class level, failure to match to congener sequence in GenBank

BMAR1167-20	<i>Neocucumis veleronis</i>	<i>Pseudocnus lubricus</i>	83.41	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: mismatch at class level, failure to match to congener sequence in GenBank
BMAR1184-20	<i>Neocucumis veleronis</i>	<i>Phyllophorella liuwutiensis</i>	83.44	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: failure to match to congener sequence in GenBank
BMAR358-19	<i>Neocucumis veleronis</i>	<i>Phyllophorella liuwutiensis</i>	83.73	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: failure to match to congener sequence in GenBank
BMAR574-20	<i>Neocucumis veleronis</i>	<i>Phyllophorella liuwutiensis</i>	83.44	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: failure to match to congener sequence in GenBank
BMAR583-20	<i>Neocucumis veleronis</i>	<i>Holopneustes purpurescens</i>	84.12	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: mismatch at class level, failure to match to congener sequence in GenBank
BMAR611-20	<i>Neocucumis veleronis</i>	<i>Phyllophorella liuwutiensis</i>	83.44	0	0	gap	No Match	NA	0	0	gap	TRUE	probable contamination/misidentification: failure to match to congener sequence in GenBank
BMAR872-20	<i>Neothyone gibber</i>	<i>Rhynchocidaris triplopora</i>	83.59	0	0	gap	No Match	NA	0	0	gap		
BMAR873-20	<i>Neothyone gibber</i>	<i>Rhynchocidaris triplopora</i>	83.59	0	0	gap	No Match	NA	0	0	gap		
BMAR892-20	<i>Neothyone gibber</i>	<i>Pentamera calcigera</i>	83.97	0	0	gap	No Match	NA	0	0	gap		
BMAR917-20	<i>Neothyone gibber</i>	<i>Pentamera calcigera</i>	84.18	0	0	gap	No Match	NA	0	0	gap		
BMAR936-20	<i>Neothyone gibber</i>	<i>Pentamera calcigera</i>	83.97	0	0	gap	No Match	NA	0	0	gap		
BMAR1136-20	<i>Neothyone gibber</i>	<i>Pentamera calcigera</i>	83.97	0	0	gap	No Match	NA	0	0	gap		
BMAR1150-20	<i>Neothyone gibber</i>	<i>Pentamera calcigera</i>	84.12	0	0	gap	No Match	NA	0	0	gap		
BMAR1183-20	<i>Neothyone gibber</i>	<i>Pentamera calcigera</i>	84.12	0	0	gap	No Match	NA	0	0	gap		
BMAR300-19	<i>Neothyone gibber</i>	<i>Phyrella fragilis</i>	84.24	0	0	gap	No Match	NA	0	0	gap		
BMAR329-19	<i>Neothyone gibber</i>	<i>Phyrella fragilis</i>	84.24	0	0	gap	No Match	NA	0	0	gap		
BMAR362-19	<i>Neothyone gibber</i>	<i>Pentamera calcigera</i>	83.84	0	0	gap	No Match	NA	0	0	gap		
BMAR379-19	<i>Neothyone gibber</i>	<i>Phyrella fragilis</i>	83.54	0	0	gap	No Match	NA	0	0	gap		
BMAR568-20	<i>Neothyone gibber</i>	<i>Phyrella fragilis</i>	84.21	0	0	gap	No Match	NA	0	0	gap		

BMAR569-20	<i>Neothyone gibber</i>	<i>Rhynchocidaris triplopora</i>	84.19	0	0	gap	No Match	NA	0	0	gap		
BMAR580-20	<i>Neothyone gibber</i>	<i>Rhynchocidaris triplopora</i>	83.59	0	0	gap	No Match	NA	0	0	gap		
BMAR582-20	<i>Neothyone gibber</i>	<i>Pentamera calcigera</i>	84.12	0	0	gap	No Match	NA	0	0	gap		
BMAR507-20	<i>Neothyone gibber</i>	<i>Pentamera calcigera</i>	84.47	0	0	gap	No Match	NA	0	0	gap		
BMAR537-20	<i>Neothyone gibber</i>	<i>Pentamera calcigera</i>	84.12	0	0	gap	No Match	NA	0	0	gap		
BMAR898-20	<i>Nidorellia armata</i>	<i>Proserpinaster neozelanicus</i>	81.36	0	0	gap	<i>Nidorellia armata</i>	100	1	1	match		
BMAR1142-20	<i>Nidorellia armata</i>	<i>Iconaster longimanus</i>	81.61	0	0	gap	<i>Nidorellia armata</i>	99.54	1	1	match		
BMAR1194-20	<i>Nidorellia armata</i>	<i>Iconaster longimanus</i>	81.6	0	0	gap	<i>Nidorellia armata</i>	100	1	1	match		
BMAR368-19	<i>Nidorellia armata</i>	<i>Toxopneustes roseus</i>	99.84	0	0	error	<i>Toxopneustes pileolus</i>	97.63	0	0	error	TRUE	contamination with <i>Toxopneustes roseus</i>
BMAR502-20	<i>Nidorellia armata</i>	<i>Iconaster longimanus</i>	81.61	0	0	gap	<i>Nidorellia armata</i>	99.85	1	1	match		
BMAR532-20	<i>Nidorellia armata</i>	<i>Proserpinaster neozelanicus</i>	81.34	0	0	gap	<i>Nidorellia armata</i>	99.54	1	1	match		
BMAR294-19	<i>Ophiactis savignyi</i>	<i>Ophiactis simplex</i>	99.03	0	1	error	<i>Ophiactis simplex</i>	99.02	0	1	error		
BMAR882-20	<i>Ophiactis savignyi</i>	<i>Ophiactis simplex</i>	98.74	0	1	error	<i>Ophiactis simplex</i>	98.93	0	1	error		
BMAR1169-20	<i>Ophiactis savignyi</i>	<i>Ophiactis savignyi</i>	99.39	1	1	match	<i>Ophiactis savignyi</i>	99.39	1	1	match		
BMAR347-19	<i>Ophiactis savignyi</i>	<i>Ophiactis savignyi</i>	98.82	1	1	match	<i>Ophiactis savignyi</i>	98.82	1	1	match		
BMAR620-20	<i>Ophiactis savignyi</i>	<i>Ophiactis savignyi</i>	99.39	1	1	match	<i>Ophiactis savignyi</i>	99.39	1	1	match		
BMAR621-20	<i>Ophiactis savignyi</i>	<i>Ophiactis savignyi</i>	99.39	1	1	match	<i>Ophiactis savignyi</i>	99.39	1	1	match		
BMAR623-20	<i>Ophiactis savignyi</i>	<i>Ophiactis savignyi</i>	99.39	1	1	match	<i>Ophiactis savignyi</i>	99.39	1	1	match		
BMAR483-20	<i>Ophiactis savignyi</i>	<i>Ophiactis savignyi</i>	99.39	1	1	match	<i>Ophiactis savignyi</i>	99.39	1	1	match		
BMAR500-20	<i>Ophiactis savignyi</i>	<i>Ophiactis savignyi</i>	99.39	1	1	match	<i>Ophiactis savignyi</i>	99.39	1	1	match		
BMAR1118-20	<i>Ophiactis simplex</i>	<i>Ophiactis simplex</i>	99.21	1	1	match	<i>Ophiactis simplex</i>	99.36	1	1	match		
BMAR295-19	<i>Ophiactis simplex</i>	<i>Holothuria imitans</i>	99.79	0	0	error	<i>Holothuria imitans</i>	98.27	0	0	error	TRUE	contamination with <i>Holothuria imitans</i>
BMAR333-19	<i>Ophiactis simplex</i>	<i>Ophiactis simplex</i>	98.63	1	1	match	<i>Ophiactis simplex</i>	98.82	1	1	match		
BMAR366-19	<i>Ophiactis simplex</i>	<i>Ophiactis simplex</i>	98.49	1	1	match	<i>Ophiactis simplex</i>	99.1	1	1	match		
BMAR601-20	Ophidiasteridae	<i>Linckia laevigata</i>	86.32	NA	NA	gap	<i>Phataria unifascialis</i>	99.84	NA	NA	improved		
BMAR603-20	Ophidiasteridae	<i>Linckia laevigata</i>	83.03	NA	NA	gap	No Match	NA	NA	NA	gap		
BMAR604-20	Ophidiasteridae	<i>Linckia laevigata</i>	86.39	NA	NA	gap	<i>Phataria unifascialis</i>	99.67	NA	NA	improved		
BMAR287-19	Ophidiasteridae	<i>Linckia laevigata</i>	85.96	NA	NA	gap	<i>Phataria unifascialis</i>	99.67	NA	NA	improved		
BMAR312-19	Ophidiasteridae	<i>Linckia laevigata</i>	86.18	NA	NA	gap	<i>Phataria unifascialis</i>	99.36	NA	NA	improved		
BMAR907-20	Ophidiasteridae	<i>Linckia laevigata</i>	86.93	NA	NA	gap	<i>Phataria unifascialis</i>	99.06	NA	NA	improved		
BMAR924-20	Ophidiasteridae	<i>Linckia laevigata</i>	86.63	NA	NA	gap	<i>Phataria unifascialis</i>	99.37	NA	NA	improved		
BMAR349-19	Ophidiasteridae	<i>Linckia laevigata</i>	83.92	NA	NA	gap	No Match	NA	NA	NA	gap		
BMAR645-20	Ophidiasteridae	<i>Linckia laevigata</i>	86.78	NA	NA	gap	<i>Phataria unifascialis</i>	99.21	NA	NA	improved		
BMAR557-20	Ophidiasteridae	<i>Linckia laevigata</i>	86.32	NA	NA	gap	<i>Phataria unifascialis</i>	100	NA	NA	improved		

BMAR880-20	Ophiasteridae	<i>Linckia laevigata</i>	86.32	NA	NA	gap	<i>Phataria unifascialis</i>	100	NA	NA	improved		
BMAR503-20	<i>Ophiocoma aethiops</i>	<i>Iconaster longimanus</i>	81.61	0	0	gap	<i>Nidorellia armata</i>	99.85	0	0	error	TRUE	contamination with <i>Nidorellia armata</i>
BMAR854-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.54	1	1	match	No Match	NA	0	0	gap		
BMAR886-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	97.7	1	1	match	No Match	NA	0	0	gap		
BMAR903-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.54	1	1	match	No Match	NA	0	0	gap		
BMAR1117-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.24	1	1	match	No Match	NA	0	0	gap		
BMAR1179-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.39	1	1	match	No Match	NA	0	0	gap		
BMAR291-19	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.62	1	1	match	No Match	NA	0	0	gap		
BMAR292-19	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.68	1	1	match	No Match	NA	0	0	gap		
BMAR307-19	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.8	1	1	match	No Match	NA	0	0	gap		
BMAR319-19	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.83	1	1	match	No Match	NA	0	0	gap		
BMAR372-19	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	97.34	1	1	match	No Match	NA	0	0	gap		
BMAR351-19	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.05	1	1	match	No Match	NA	0	0	gap		
BMAR586-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	97.11	1	1	match	No Match	NA	0	0	gap		
BMAR593-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.54	1	1	match	No Match	NA	0	0	gap		
BMAR618-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.37	1	1	match	No Match	NA	0	0	gap		
BMAR630-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.54	1	1	match	No Match	NA	0	0	gap		
BMAR649-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	96.96	0	0	gap	No Match	NA	0	0	gap		
BMAR651-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.54	1	1	match	No Match	NA	0	0	gap		
BMAR657-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.54	1	1	match	No Match	NA	0	0	gap		
BMAR476-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.09	1	1	match	No Match	NA	0	0	gap		
BMAR494-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.7	1	1	match	No Match	NA	0	0	gap		
BMAR505-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.7	1	1	match	No Match	NA	0	0	gap		
BMAR528-20	<i>Ophiocomella alexandri</i>	<i>Ophiocomella alexandri</i>	99.54	1	1	match	No Match	NA	0	0	gap		
BMAR911-20	<i>Ophioderma cf. panamense</i>	<i>Ophioderma panamense</i>	97.66	1	1	match	<i>Ophioderma panamense</i>	97.65	1	1	match		use of 'cf.' implies a genus-level identification, but the authors count this as a species ID for when assessing matches; we have done the same here
BMAR921-20	<i>Ophioderma cf. panamense</i>	<i>Ophioderma panamense</i>	98.05	1	1	match	<i>Ophioderma panamense</i>	98.04	1	1	match		use of 'cf.' implies a genus-level identification, but the authors count this as a species ID for when assessing matches; we have done the same here
BMAR492-20	<i>Ophioderma hendleri</i>	<i>Ophioderma hendleri</i>	95.71	0	0	gap	No Match	NA	0	0	gap		
BMAR909-20	<i>Ophioderma hendleri</i>	<i>Ophioderma hendleri</i>	95.71	0	0	gap	No Match	NA	0	0	gap		

BMAR910-20	<i>Ophioderma hendleri</i>	<i>Ophioderma hendleri</i>	95.13	0	0	gap	No Match	NA	0	0	gap		
BMAR944-20	<i>Ophioderma hendleri</i>	<i>Ophioderma hendleri</i>	96.3	0	0	gap	No Match	NA	0	0	gap		
BMAR1171-20	<i>Ophioderma hendleri</i>	<i>Ophioderma hendleri</i>	95.32	0	0	gap	No Match	NA	0	0	gap		
BMAR1186-20	<i>Ophioderma hendleri</i>	<i>Ophioderma hendleri</i>	95.91	0	0	gap	No Match	NA	0	0	gap		
BMAR308-19	<i>Ophioderma hendleri</i>	<i>Ophioderma hendleri</i>	95.09	0	0	gap	No Match	NA	0	0	gap		
BMAR320-19	<i>Ophioderma hendleri</i>	<i>Ophioderma hendleri</i>	95.71	0	0	gap	No Match	NA	0	0	gap		
BMAR648-20	<i>Ophioderma hendleri</i>	<i>Ophioderma hendleri</i>	95.52	0	0	gap	No Match	NA	0	0	gap		
BMAR520-20	<i>Ophioderma hendleri</i>	<i>Ophioderma hendleri</i>	95.71	0	0	gap	No Match	NA	0	0	gap		
BMAR908-20	<i>Ophioderma panamense</i>	<i>Ophioderma panamense</i>	97.66	1	1	match	<i>Ophioderma panamense</i>	97.65	1	1	match		
BMAR923-20	<i>Ophioderma panamense</i>	<i>Ophioderma panamense</i>	97.86	1	1	match	<i>Ophioderma panamense</i>	97.84	1	1	match		
BMAR305-19	<i>Ophioderma panamense</i>	<i>Ophioderma panamense</i>	97.86	1	1	match	<i>Ophioderma panamense</i>	97.86	1	1	match		
BMAR374-19	<i>Ophioderma panamense</i>	<i>Ophioderma panamense</i>	99.51	1	1	match	<i>Ophioderma panamense</i>	99.51	1	1	match		
BMAR546-20	<i>Ophioderma panamense</i>	<i>Ophioderma panamense</i>	98.05	1	1	match	<i>Ophioderma panamense</i>	98.04	1	1	match		
BMAR927-20	<i>Ophioderma</i> sp.	<i>Ophioderma panamense</i>	99.61	NA	1	improved	<i>Ophioderma panamense</i>	99.61	NA	1	improved		
BMAR1185-20	<i>Ophioderma</i> sp.	<i>Ophioderma hendleri</i>	95.71	NA	0	gap	No Match	NA	NA	0	gap		
BMAR887-20	<i>Ophioderma teres</i>	<i>Ophioderma teres</i>	97.87	1	1	match	<i>Ophioderma teres</i>	97.86	1	1	match		
BMAR922-20	<i>Ophioderma teres</i>	<i>Ophioderma rubicunda</i>	93.38	0	0	gap	No Match	NA	0	0	gap		
BMAR288-19	<i>Ophioderma teres</i>	<i>Ophioderma teres</i>	97.27	1	1	match	<i>Ophioderma teres</i>	97.25	1	1	match		
BMAR631-20	<i>Ophioderma teres</i>	<i>Ophioderma teres</i>	97.27	1	1	match	<i>Ophioderma teres</i>	97.25	1	1	match		
BMAR489-20	<i>Ophioderma teres</i>	<i>Ophioderma teres</i>	97.08	1	1	match	<i>Ophioderma teres</i>	97.06	1	1	match		
BMAR928-20	<i>Ophiolepis pacifica</i>	<i>Ophiolepis impressa</i>	94.52	0	0	gap	No Match	NA	0	0	gap		
BMAR1181-20	<i>Ophiolepis pacifica</i>	<i>Ophiolepis impressa</i>	93.76	0	0	gap	No Match	NA	0	0	gap		
BMAR1189-20	<i>Ophiolepis pacifica</i>	<i>Ophiolepis impressa</i>	94.52	0	0	gap	No Match	NA	0	0	gap		
BMAR646-20	<i>Ophiolepis pacifica</i>	<i>Ophiolepis impressa</i>	94.52	0	0	gap	No Match	NA	0	0	gap		
BMAR545-20	<i>Ophiolepis pacifica</i>	<i>Ophiolepis impressa</i>	94.52	0	0	gap	No Match	NA	0	0	gap		
BMAR607-20	<i>Ophiolepis</i> sp.?	<i>Ophionereis reticulata</i>	89.8	NA	0	gap	No Match	NA	NA	0	gap		
BMAR865-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	89.65	0	0	gap	No Match	NA	0	0	gap		
BMAR890-20	<i>Ophionereis annulata</i>	<i>Labidodemas pertinax</i>	85.71	0	0	gap	No Match	NA	0	0	gap		
BMAR904-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	89.8	0	0	gap	No Match	NA	0	0	gap		
BMAR929-20	<i>Ophionereis annulata</i>	<i>Ophioderma panamense</i>	97.66	0	0	error	<i>Ophioderma panamense</i>	97.65	0	0	error		
BMAR930-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	89.65	0	0	gap	No Match	NA	0	0	gap		
BMAR1173-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	89.8	0	0	gap	No Match	NA	0	0	gap		
BMAR289-19	<i>Ophionereis annulata</i>	<i>Ophionereis vittata</i>	90.24	0	0	gap	No Match	NA	0	0	gap		

BMAR303-19	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	90.23	0	0	gap	No Match	NA	0	0	gap		
BMAR321-19	<i>Ophionereis annulata</i>	<i>Ophionereis vittata</i>	90.29	0	0	gap	No Match	NA	0	0	gap		
BMAR339-19	<i>Ophionereis annulata</i>	<i>Ophionereis vittata</i>	90.22	0	0	gap	No Match	NA	0	0	gap		
BMAR587-20	<i>Ophionereis annulata</i>	<i>Ophionereis schayeri</i>	90.3	0	0	gap	No Match	NA	0	0	gap		
BMAR594-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	89.65	0	0	gap	No Match	NA	0	0	gap		
BMAR617-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	89.8	0	0	gap	No Match	NA	0	0	gap		
BMAR652-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	89.55	0	0	gap	No Match	NA	0	0	gap		
BMAR654-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	89.65	0	0	gap	No Match	NA	0	0	gap		
BMAR490-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	89.65	0	0	gap	<i>Ophionereis annulata</i>	100	1	1	match		
BMAR504-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	89.84	0	0	gap	No Match	NA	0	0	gap		
BMAR558-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	89.8	0	0	gap	No Match	NA	0	0	gap		
BMAR536-20	<i>Ophionereis annulata</i>	<i>Ophionereis reticulata</i>	87.99	0	0	gap	No Match	NA	0	0	gap		
BMAR883-20	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	100	1	1	match	<i>Ophiothela mirabilis</i>	100	1	1	match		
BMAR919-20	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	100	1	1	match	<i>Ophiothela mirabilis</i>	100	1	1	match		
BMAR920-20	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	100	1	1	match	<i>Ophiothela mirabilis</i>	100	1	1	match		
BMAR931-20	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	100	1	1	match	<i>Ophiothela mirabilis</i>	100	1	1	match		
BMAR325-19	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	100	1	1	match	<i>Ophiothela mirabilis</i>	100	1	1	match		
BMAR344-19	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	100	1	1	match	<i>Ophiothela mirabilis</i>	100	1	1	match		
BMAR487-20	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	100	1	1	match	<i>Ophiothela mirabilis</i>	100	1	1	match		
BMAR493-20	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	99.85	1	1	match	<i>Ophiothela danae</i>	99.69	0	1	error		possible misidentification in GenBank/Chacón-Monge et al. (2024)
BMAR498-20	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	100	1	1	match	<i>Ophiothela mirabilis</i>	100	1	1	match		
BMAR499-20	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	100	1	1	match	<i>Ophiothela mirabilis</i>	100	1	1	match		
BMAR525-20	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	100	1	1	match	<i>Ophiothela mirabilis</i>	100	1	1	match		
BMAR566-20	<i>Ophiothela mirabilis</i>	<i>Ophiothela mirabilis</i>	100	1	1	match	<i>Ophiothela mirabilis</i>	100	1	1	match		
BMAR524-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.93	1	1	match	<i>Ophiothrix spiculata</i>	99.13	1	1	match		
BMAR852-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.72	1	1	match	<i>Ophiothrix spiculata</i>	98.61	1	1	match		
BMAR853-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	99.57	1	1	match	<i>Ophiothrix spiculata</i>	99.57	1	1	match		
BMAR866-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	99.79	1	1	match	<i>Ophiothrix spiculata</i>	99.83	1	1	match		
BMAR867-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	99.57	1	1	match	<i>Ophiothrix spiculata</i>	99.57	1	1	match		
BMAR1124-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.72	1	1	match	<i>Ophiothrix spiculata</i>	99.13	1	1	match		
BMAR1152-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.29	1	1	match	<i>Ophiothrix spiculata</i>	99.13	1	1	match		
BMAR1187-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.49	1	1	match	<i>Ophiothrix spiculata</i>	98.78	1	1	match		
BMAR311-19	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	99.3	1	1	match	<i>Ophiothrix spiculata</i>	99.44	1	1	match		
BMAR323-19	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.83	1	1	match	<i>Ophiothrix spiculata</i>	99.07	1	1	match		

BMAR343-19	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.29	1	1	match	<i>Ophiothrix spiculata</i>	98.89	1	1	match		
BMAR352-19	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.72	1	1	match	<i>Ophiothrix spiculata</i>	98.88	1	1	match		
BMAR371-19	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	99.3	1	1	match	<i>Ophiothrix spiculata</i>	99.44	1	1	match		
BMAR588-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	99.14	1	1	match	<i>Ophiothrix spiculata</i>	99.31	1	1	match		
BMAR606-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	100	1	1	match	<i>Ophiothrix spiculata</i>	100	1	1	match		
BMAR619-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	97.64	1	1	match	<i>Ophiothrix spiculata</i>	98.78	1	1	match		
BMAR632-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.5	1	1	match	<i>Ophiothrix spiculata</i>	98.96	1	1	match		
BMAR644-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	99.36	1	1	match	<i>Ophiothrix spiculata</i>	99.35	1	1	match		
BMAR647-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.5	1	1	match	<i>Ophiothrix spiculata</i>	98.48	1	1	match		
BMAR479-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	99.57	1	1	match	<i>Ophiothrix spiculata</i>	99.65	1	1	match		
BMAR485-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.93	1	1	match	<i>Ophiothrix spiculata</i>	99.13	1	1	match		
BMAR486-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	99.79	1	1	match	<i>Ophiothrix spiculata</i>	99.78	1	1	match		
BMAR488-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.07	1	1	match	<i>Ophiothrix spiculata</i>	99.78	1	1	match		
BMAR519-20	<i>Ophiothrix spiculata</i>	<i>Ophiothrix spiculata</i>	98.93	1	1	match	<i>Ophiothrix spiculata</i>	98.96	1	1	match		
BMAR1207-20	<i>Pentamera chierchiaie</i>	<i>Thyone benti</i>	86.02	0	0	gap	No Match	NA	0	0	gap		
BMAR570-20	<i>Pentamera chierchiaie</i>	<i>Thyone benti</i>	86.02	0	0	gap	No Match	NA	0	0	gap		
BMAR899-20	<i>Pharia pyramidata</i>	<i>Linckia laevigata</i>	84.02	0	0	gap	No Match	NA	0	0	gap		
BMAR1197-20	<i>Pharia pyramidata</i>	<i>Linckia laevigata</i>	83.99	0	0	gap	No Match	NA	0	0	gap		
BMAR600-20	<i>Pharia pyramidata</i>	<i>Diadema mexicanum</i>	100	0	0	error	<i>Diadema mexicanum</i>	100	0	0	error	TRUE	contamination with <i>Diadema mexicanum</i>
BMAR482-20	<i>Pharia pyramidata</i>	<i>Linckia laevigata</i>	99.39	0	0	error	No Match	NA	0	0	gap		
BMAR541-20	<i>Pharia pyramidata</i>	<i>Linckia laevigata</i>	84.15	0	0	gap	No Match	NA	0	0	gap		
BMAR555-20	<i>Pharia pyramidata</i>	<i>Linckia laevigata</i>	83.99	0	0	gap	No Match	NA	0	0	gap		
BMAR563-20	<i>Pharia pyramidata</i>	<i>Linckia laevigata</i>	83.69	0	0	gap	No Match	NA	0	0	gap		
BMAR906-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.02	0	0	gap	<i>Phataria unifascialis</i>	99.06	1	1	match		
BMAR925-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.47	0	0	gap	<i>Phataria unifascialis</i>	99.53	1	1	match		
BMAR870-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.32	0	0	gap	<i>Phataria unifascialis</i>	100	1	1	match		
BMAR1114-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.32	0	0	gap	<i>Phataria unifascialis</i>	99.37	1	1	match		
BMAR1153-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.32	0	0	gap	<i>Phataria unifascialis</i>	99.37	1	1	match		
BMAR1188-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.63	0	0	gap	<i>Phataria unifascialis</i>	99.69	1	1	match		
BMAR313-19	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.34	0	0	gap	<i>Phataria unifascialis</i>	99.52	1	1	match		
BMAR340-19	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.3	0	0	gap	<i>Phataria unifascialis</i>	98.8	1	1	match		
BMAR598-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.47	0	0	gap	<i>Phataria unifascialis</i>	99.37	1	1	match		
BMAR625-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.45	0	0	gap	<i>Phataria unifascialis</i>	99.21	1	1	match		
BMAR661-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.32	0	0	gap	<i>Phataria unifascialis</i>	99.06	1	1	match		
BMAR542-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.02	0	0	gap	<i>Phataria unifascialis</i>	99.06	1	1	match		

BMAR550-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.2	0	0	gap	<i>Phataria unifascialis</i>	99.18	1	1	match		
BMAR564-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.25	0	0	gap	<i>Phataria unifascialis</i>	99.19	1	1	match		
BMAR324-19	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	86.2	0	0	gap	<i>Phataria unifascialis</i>	100	1	1	match		
BMAR517-20	<i>Phataria unifascialis</i>	<i>Linckia laevigata</i>	85.87	0	0	gap	<i>Phataria unifascialis</i>	99.8	1	1	match		
BMAR871-20	<i>Pseudocnus californicus</i>	<i>Pseudocolochirus violaceus</i>	89.69	0	0	gap	No Match	NA	0	0	gap		
BMAR918-20	<i>Pseudocnus californicus</i>	<i>Pseudocolochirus violaceus</i>	90.21	0	0	gap	No Match	NA	0	0	gap		
BMAR1140-20	<i>Pseudocnus californicus</i>	<i>Pseudocolochirus violaceus</i>	89.21	0	0	gap	No Match	NA	0	0	gap		
BMAR522-20	<i>Pseudocnus californicus</i>	<i>Apostichopus japonicus</i>	83.13	0	0	gap	No Match	NA	0	0	gap		
BMAR332-19	<i>Stichopus horrens</i>	<i>Stichopus horrens</i>	99.31	1	1	match	<i>Stichopus horrens</i>	99.76	1	1	match		
BMAR660-20	<i>Stichopus horrens</i>	<i>Stichopus horrens</i>	99.24	1	1	match	<i>Stichopus horrens</i>	99.78	1	1	match		
BMAR879-20	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	100	1	1	match	<i>Toxopneustes pileolus</i>	97.78	0	1	error		likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR900-20	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	99.7	1	1	match	<i>Toxopneustes pileolus</i>	97.62	0	1	error		likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR1155-20	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	100	1	1	match	<i>Toxopneustes pileolus</i>	97.78	0	1	error		likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR1195-20	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	100	1	1	match	<i>Toxopneustes pileolus</i>	97.78	0	1	error		likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR317-19	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	99.84	1	1	match	<i>Toxopneustes pileolus</i>	97.62	0	1	error		likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR330-19	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	100	1	1	match	<i>Toxopneustes pileolus</i>	97.8	0	1	error		likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR354-19	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	100	1	1	match	<i>Toxopneustes pileolus</i>	97.64	0	1	error		likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR369-19	<i>Toxopneustes roseus</i>	<i>Iconaster longimanus</i>	81.24	0	0	gap	<i>Nidorellia armata</i>	99.83	0	0	error	TRUE	contamination with <i>Nidorellia armata</i>
BMAR596-20	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	100	1	1	match	<i>Toxopneustes pileolus</i>	97.78	0	1	error		likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR627-20	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	100	1	1	match	<i>Toxopneustes pileolus</i>	97.78	0	1	error		likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR633-20	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	99.85	1	1	match	<i>Toxopneustes pileolus</i>	97.62	0	1	error		likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR477-20	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	100	1	1	match	<i>Toxopneustes pileolus</i>	97.78	0	1	error		likely correctly interpreted as a gap (matching congener is sufficiently divergent)

BMAR509-20	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	100	1	1	match	<i>Toxopneustes pileolus</i>	97.78	0	1	error	likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR531-20	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	100	1	1	match	<i>Toxopneustes pileolus</i>	97.78	0	1	error	likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR554-20	<i>Toxopneustes roseus</i>	<i>Toxopneustes roseus</i>	100	1	1	match	<i>Toxopneustes pileolus</i>	97.78	0	1	error	likely correctly interpreted as a gap (matching congener is sufficiently divergent)
BMAR1154-20	Toxopneustidae	<i>Lytechinus williamsi</i>	90.27	NA	NA	gap	No Match	NA	NA	NA	gap	
BMAR365-19	<i>Tripneustes depressus</i>	<i>Tripneustes depressus</i>	100	1	1	match	<i>Tripneustes kermadecensis</i>	100	0	1	error	
BMAR501-20	<i>Tripneustes depressus</i>	<i>Tripneustes depressus</i>	100	1	1	match	<i>Tripneustes gratilla</i>	99.85	0	1	error	
BMAR534-20	<i>Tripneustes depressus</i>	<i>Tripneustes depressus</i>	100	1	1	match	<i>Tripneustes kermadecensis</i>	100	0	1	error	
BMAR556-20	<i>Tripneustes depressus</i>	<i>Tripneustes depressus</i>	100	1	1	match	<i>Tripneustes gratilla</i>	99.85	0	1	error	

Success of species- and genus-level identification is explicitly scored under ‘Sp. ID’ and ‘Gen. ID’, respectively. Results of identification queries are interpreted as follows: match – result has concordant taxonomy and exceeds 97 % pairwise identity; error – result has conflicting taxonomy and exceeds 97% pairwise identity; gap – no result or result with less than 97 % pairwise identity; improved – result has more specific taxonomy than indicated by morphology-based ID. Excluded samples are indicated by a value of ‘TRUE’ under ‘Exclude’, with explanation under ‘Notes’.

SMT2

Simplified results of sequence-based identification using GenBank BLASTn and BOLD ID Engine, including only a single instance of each distinct outcome per taxon, thus eliminating pseudoreplication of taxa represented by multiple samples (n=45)

Morphology-based ID	GenBank BLASTn			BOLD ID Engine			Count of samples	Process IDs
	Species ID	Genus ID	Result	Species ID	Genus ID	Result		
Amphiuridae	NA	NA	gap	NA	NA	gap	1	BMAR881-20
Amphiuridae	NA	NA	gap	NA	NA	improved	1	BMAR602-20
<i>Arbacia stellata</i>	1	1	match	0	0	gap	7	BMAR1151-20, BMAR1193-20, BMAR356-19, BMAR561-20, BMAR855-20, BMAR856-20, BMAR905-20
<i>Asteropsis carinifera</i>	0	0	gap	1	1	match	3	BMAR1180-20, BMAR1196-20, BMAR518-20
<i>Astropyga pulvinata</i>	1	1	match	0	0	gap	2	BMAR495-20, BMAR552-20
<i>Brissus obesus</i>	0	0	error	0	0	gap	1	BMAR595-20
<i>Chiridota aponocrita</i>	0	0	gap	0	0	gap	10	BMAR1128-20, BMAR1158-20, BMAR1203-20, BMAR296-19, BMAR530-20, BMAR543-20, BMAR864-20, BMAR877-20, BMAR894-20, BMAR941-20
<i>Cucumaria flamma</i>	0	0	gap	0	0	gap	2	BMAR1202-20, BMAR945-20

<i>Diadema mexicanum</i>	1	1	match	1	1	match	5	BMAR297-19, BMAR506-20, BMAR533-20, BMAR553-20, BMAR859-20
<i>Echinometra vanbrunti</i>	1	1	match	0	0	gap	3	BMAR350-19, BMAR367-19, BMAR591-20
<i>Eucidaris thouarsii</i>	1	1	match	0	0	gap	1	BMAR869-20
<i>Eucidaris thouarsii</i>	1	1	match	1	1	match	4	BMAR1115-20, BMAR481-20, BMAR529-20, BMAR857-20
<i>Holothuria arenicola</i>	0	0	gap	1	1	match	5	BMAR1147-20, BMAR1201-20, BMAR885-20, BMAR933-20, BMAR937-20
<i>Holothuria fuscocinerea</i>	0	1	error	0	0	gap	1	BMAR942-20
<i>Holothuria impatiens</i>	0	1	error	0	0	gap	2	BMAR1120-20, BMAR1139-20
<i>Holothuria impatiens</i>	0	0	gap	0	1	error	4	BMAR548-20, BMAR579-20, BMAR650-20, BMAR915-20
<i>Holothuria impatiens</i>	0	0	gap	0	0	gap	2	BMAR573-20, BMAR938-20
<i>Holothuria impatiens</i>	1	1	match	0	0	gap	22	BMAR1119-20, BMAR1122-20, BMAR1123-20, BMAR1127-20, BMAR1157-20, BMAR1159-20, BMAR1160-20, BMAR1161-20, BMAR309-19, BMAR327-19, BMAR380-19, BMAR474-20, BMAR480-20, BMAR515-20, BMAR549-20, BMAR576-20, BMAR609-20, BMAR861-20, BMAR875-20, BMAR901-20, BMAR916-20, BMAR940-20
<i>Holothuria kefersteinii</i>	0	0	gap	0	0	gap	1	BMAR912-20
<i>Holothuria kefersteinii</i>	1	1	match	0	0	gap	1	BMAR1133-20
<i>Holothuria portovallartensis</i>	1	1	match	0	0	gap	1	BMAR378-19
<i>Holothuria rigida</i>	0	0	gap	0	0	gap	5	BMAR1143-20, BMAR475-20, BMAR540-20, BMAR932-20, BMAR946-20
Holothuroidea	NA	NA	gap	NA	NA	gap	2	BMAR1137-20, BMAR1182-20
Holothuroidea	NA	NA	improved	NA	NA	improved	2	BMAR1208-20, BMAR581-20
<i>Isostichopus fuscus</i>	1	1	match	1	1	match	6	BMAR1163-20, BMAR1199-20, BMAR496-20, BMAR658-20, BMAR659-20, BMAR895-20
<i>Labidodemas americanum</i>	0	0	gap	0	0	gap	2	BMAR1200-20, BMAR913-20
<i>Labidodemas maccullochi</i>	0	0	gap	0	0	gap	2	BMAR484-19, BMAR889-20
<i>Lovenia cordiformis</i>	1	1	match	1	1	match	3	BMAR560-20, BMAR637-20, BMAR655-20
<i>Meoma ventricosa</i>	0	0	error	0	0	gap	2	BMAR510-20, BMAR527-20
<i>Mithrodia bradleyi</i>	0	0	gap	1	1	match	1	BMAR565-20
<i>Mithrodia bradleyi</i>	1	1	match	1	1	match	4	BMAR1204-20, BMAR304-19, BMAR512-20, BMAR943-20
<i>Neothyone gibber</i>	0	0	gap	0	0	gap	18	BMAR1136-20, BMAR1150-20, BMAR1183-20, BMAR300-19, BMAR329-19, BMAR362-19, BMAR379-19, BMAR507-20, BMAR537-20,

								BMAR568-20, BMAR569-20, BMAR580-20, BMAR582-20, BMAR872-20, BMAR873-20, BMAR892-20, BMAR917-20, BMAR936-20
<i>Nidorellia armata</i>	0	0	gap	1	1	match	5	BMAR1142-20, BMAR1194-20, BMAR502-20, BMAR532-20, BMAR898-20
<i>Ophiactis savignyi</i>	0	1	error	0	1	error	2	BMAR294-19, BMAR882-20
<i>Ophiactis savignyi</i>	1	1	match	1	1	match	7	BMAR1169-20, BMAR347-19, BMAR483-20, BMAR500-20, BMAR620-20, BMAR621-20, BMAR623-20
<i>Ophiactis simplex</i>	1	1	match	1	1	match	3	BMAR1118-20, BMAR333-19, BMAR366-19
Ophidiasteridae	NA	NA	gap	NA	NA	gap	2	BMAR349-19, BMAR603-20
Ophidiasteridae	NA	NA	gap	NA	NA	improved	9	BMAR287-19, BMAR312-19, BMAR557-20, BMAR601-20, BMAR604-20, BMAR645-20, BMAR880-20, BMAR907-20, BMAR924-20
<i>Ophiocomella alexandri</i>	0	0	gap	0	0	gap	1	BMAR649-20
<i>Ophiocomella alexandri</i>	1	1	match	0	0	gap	21	BMAR1117-20, BMAR1179-20, BMAR291-19, BMAR292-19, BMAR307-19, BMAR319-19, BMAR351-19, BMAR372-19, BMAR476-20, BMAR494-20, BMAR505-20, BMAR528-20, BMAR586-20, BMAR593-20, BMAR618-20, BMAR630-20, BMAR651-20, BMAR657-20, BMAR854-20, BMAR886-20, BMAR903-20
<i>Ophioderma cf. panamense</i>	1	1	match	1	1	match	2	BMAR911-20, BMAR921-20
<i>Ophioderma hendleri</i>	0	0	gap	0	0	gap	10	BMAR1171-20, BMAR1186-20, BMAR308-19, BMAR320-19, BMAR492-20, BMAR520-20, BMAR648-20, BMAR909-20, BMAR910-20, BMAR944-20
<i>Ophioderma panamense</i>	1	1	match	1	1	match	5	BMAR305-19, BMAR374-19, BMAR546-20, BMAR908-20, BMAR923-20
<i>Ophioderma sp.</i>	NA	1	gap	NA	0	gap	1	BMAR1185-20
<i>Ophioderma sp.</i>	NA	1	improved	NA	1	improved	1	BMAR927-20
<i>Ophioderma teres</i>	0	0	gap	0	0	gap	1	BMAR922-20
<i>Ophioderma teres</i>	1	1	match	1	1	match	4	BMAR288-19, BMAR489-20, BMAR631-20, BMAR887-20
<i>Ophiolepis pacifica</i>	0	0	gap	0	0	gap	5	BMAR1181-20, BMAR1189-20, BMAR545-20, BMAR646-20, BMAR928-20
<i>Ophiolepis sp.?</i>	NA	0	gap	NA	0	gap	1	BMAR607-20
<i>Ophionereis annulata</i>	0	0	error	0	0	error	1	BMAR929-20
<i>Ophionereis annulata</i>	0	0	gap	0	0	gap	17	BMAR1173-20, BMAR289-19, BMAR303-19, BMAR321-19, BMAR339-19, BMAR504-20,

								BMAR536-20, BMAR558-20, BMAR587-20, BMAR594-20, BMAR617-20, BMAR652-20, BMAR654-20, BMAR865-20, BMAR890-20, BMAR904-20, BMAR930-20
<i>Ophionereis annulata</i>	0	0	gap	1	1	match	1	BMAR490-20
<i>Ophiothela mirabilis</i>	1	1	match	0	1	error	1	BMAR493-20
<i>Ophiothela mirabilis</i>	1	1	match	1	1	match	11	BMAR325-19, BMAR344-19, BMAR487-20, BMAR498-20, BMAR499-20, BMAR525-20, BMAR566-20, BMAR883-20, BMAR919-20, BMAR920-20, BMAR931-20
<i>Ophiothrix spiculata</i>	1	1	match	1	1	match	24	BMAR1124-20, BMAR1152-20, BMAR1187-20, BMAR311-19, BMAR323-19, BMAR343-19, BMAR352-19, BMAR371-19, BMAR479-20, BMAR485-20, BMAR486-20, BMAR488-20, BMAR519-20, BMAR524-20, BMAR588-20, BMAR606-20, BMAR619-20, BMAR632-20, BMAR644-20, BMAR647-20, BMAR852-20, BMAR853-20, BMAR866-20, BMAR867-20
<i>Pentamera chierchiaie</i>	0	0	gap	0	0	gap	2	BMAR1207-20, BMAR570-20
<i>Pharia pyramidata</i>	0	0	error	0	0	gap	1	BMAR482-20
<i>Pharia pyramidata</i>	0	0	gap	0	0	gap	5	BMAR1197-20, BMAR541-20, BMAR555-20, BMAR563-20, BMAR899-20
<i>Phataria unifascialis</i>	0	0	gap	1	1	match	16	BMAR1114-20, BMAR1153-20, BMAR1188-20, BMAR313-19, BMAR324-19, BMAR340-19, BMAR517-20, BMAR542-20, BMAR550-20, BMAR564-20, BMAR598-20, BMAR625-20, BMAR661-20, BMAR870-20, BMAR906-20, BMAR925-20
<i>Pseudocnus californicus</i>	0	0	gap	0	0	gap	4	BMAR1140-20, BMAR522-20, BMAR871-20, BMAR918-20
<i>Stichopus horrens</i>	1	1	match	1	1	match	2	BMAR332-19, BMAR660-20
<i>Toxopneustes roseus</i>	1	1	match	0	1	error	14	BMAR1155-20, BMAR1195-20, BMAR317-19, BMAR330-19, BMAR354-19, BMAR477-20, BMAR509-20, BMAR531-20, BMAR554-20, BMAR596-20, BMAR627-20, BMAR633-20, BMAR879-20, BMAR900-20
Toxopneustidae	NA	NA	gap	NA	NA	gap	1	BMAR1154-20
<i>Tripneustes depressus</i>	1	1	match	0	1	error	4	BMAR365-19, BMAR501-20, BMAR534-20, BMAR556-20

Excluded are any probable instances of contamination, sample mix-ups, or misidentifications by the original authors, as indicated in SMT1. The samples attributable to each distinct outcome are listed by their process IDs.