

Table S1. Data of Dendrodorididae O'Donoghue, 1924 sequences retrieved from NCBI GenBank with additional information on names when changed subsequently in literature (column 2), with locality information, references and accession numbers.

Species name taken from literature (NCBI) and names used in our ms	Subsequently in literature, WORMS or in this study corrected names	Locality	Reference	GenBank accession COI	GenBank accession 16S	GenBank accession 18S	GenBank accession H3
<i>Cariopsilla pharpa</i>	Assignment to <i>Doriopsilla</i> confirmed in this study	Chesapeake Bay (North Carolina)	Aguilar <i>et al.</i> 2018 (unpublished)	MH087486	-	-	-
<i>Dendrodoris atromaculata</i>		Philippines	Hallas <i>et al.</i> 2017	MF958434	MF958307	MF958348	-
<i>Dendrodoris atromaculata</i>		-	Donohoo & Gosliner (2020)	-	-	-	MN720315
<i>Dendrodoris albobrunnea</i>		New Caledonia	Valdés (2002)	-	AF430349	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917436	-	AB917459	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917430	-	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917431	-	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917432	-	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917433	-	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917434	-	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917435	-	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917436	-	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917437	-	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917438	-	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917439	-	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917440	-	-	-
<i>Dendrodoris arborens</i>		Japan	Hirose <i>et al.</i> (2014)	AB917441	-	-	-
<i>Dendrodoris citrina</i>		New Zealand	Shields <i>et al.</i> (2009)	GQ292043	-	GQ326878	-
<i>Dendrodoris denisoni</i>	accepted as <i>D. krusenstermii</i>	Japan	Hirose <i>et al.</i> (2014)	AB917442	-	AB917460	-
<i>Dendrodoris denisoni</i>	accepted as <i>D. krusenstermii</i>	Japan	Hirose <i>et al.</i> (2014)	AB917443	-	-	-
<i>Dendrodoris denisoni</i>	accepted as <i>D. krusenstermii</i>	New Zealand	Shields <i>et al.</i> (2009)	GQ292047	-	GQ326872	-
<i>Dendrodoris denisoni</i>	accepted as <i>D. krusenstermii</i>	New Caledonia	Valdés (2002)	-	AF430350	-	-
<i>Dendrodoris denisoni</i>	accepted as <i>D. krusenstermii</i>	Philippines island	Hallas <i>et al.</i> (2017)	-	MF958308	MF958349	-
<i>Dendrodoris denisoni</i>	accepted as <i>D. krusenstermii</i>	Australia	Nimbs & Smith (2021)	MZ373328	-	-	-
<i>D. denisoni</i> in NCBI	accepted as <i>D. krusenstermii</i>	Australia	Nimbs & Smith (2021)	MZ373329	-	-	-
<i>D. denisoni</i> in NCBI	<i>D. krusenstermii</i> (synonymized <i>D. gunnamatta</i>)	Australia	Nimbs & Smith (2021)	MZ373327	-	-	-

<i>D. denisoni</i> in NCBI	<i>D. krusensternii</i> (synonymized <i>D. gunnamatta</i>)	Australia	Nimbs & Smith (2021)	MZ373326	-	-	-
<i>D. denisoni</i> in NCBI	<i>D. krusensternii</i> (synonymized <i>D. gunnamatta</i>)	Australia	Nimbs & Smith (2021)	MZ373325	-	-	-
<i>D. denisoni</i> in NCBI	accepted as <i>D. krusensternii</i>	Australia	Nimbs & Smith (2021)	MZ373324	-	-	-
<i>Dendrodois elongata</i>		New Caledonia	Valdés (2002)	-	AF430351	-	-
<i>Dendrodois fumata</i>		Iran (Gulf of Oman)	Mousavipoor (2013)	KF408220	-	-	-
<i>Dendrodois fumata</i>		Iran (Persian Gulf)	Fatemi <i>et al.</i> (2021)	MW402996	-	-	-
<i>Dendrodois fumata</i>		Iran (Persian Gulf)	Fatemi <i>et al.</i> (2021)	MW392739	-	-	-
<i>Dendrodois fumata</i>		South coast line of Iran	Fatemi <i>et al.</i> 2020 (unpublished)	MN548840	-	-	-
<i>Dendrodois fumata</i>	<i>D. rubra</i>	Hawaii (locality mentioned in title)	Paulay <i>et al.</i> 2020 (not published)	MW278338	-	-	-
<i>Dendrodois fumata</i>	<i>D. rubra</i>	Hawaii (locality mentioned in title)	Paulay <i>et al.</i> 2020 (not published)	MW278039	-	-	-
<i>Dendrodois fumata</i>	<i>D. rubra</i>	Singapore	Ip <i>et al.</i> (2019)	MN690567	-	-	-
<i>Dendrodois fumata</i>		Australia	Wollscheid-Lengeling <i>et al.</i> (2001)	AF249799	-	-	-
<i>Dendrodois fumata</i>		Saudi Arabia (Red sea)	Hallas <i>et al.</i> (2017)	MF958444	-	MF958358	-
<i>Dendrodois fumata</i>		Australia	Wollscheid-Lengeling <i>et al.</i> (2001)	-	-	AF249216	-
<i>Dendrodois fumata</i>		-	Göbbeler & Klussmann-Kolb (2010)	-	-	FJ917444	-
<i>Dendrodois rubra</i>		Japan	Hirose <i>et al.</i> (2014)	AB917448	-	-	-
<i>Dendrodois rubra</i>		Japan	Hirose <i>et al.</i> (2014)	AB917449	-	-	-
<i>Dendrodois rubra (fumata)</i>		Japan	Hirose <i>et al.</i> (2014)	AB917450	-	AB917463	-
<i>Dendrodois rubra</i>		Japan	Hirose <i>et al.</i> (2014)	AB917451	-	-	-
<i>Dendrodois rubra</i>		Japan	Hirose <i>et al.</i> (2014)	AB917452	-	-	-
<i>Dendrodois rubra</i>		Japan	Hirose <i>et al.</i> (2014)	AB917453	-	-	-
<i>Dendrodois rubra</i>		Japan	Hirose <i>et al.</i> (2014)	AB917454	-	-	-
<i>Dendrodois rubra</i>		Japan	Hirose <i>et al.</i> (2014)	AB917455	-	-	-
<i>Dendrodois rubra</i>		Japan	Hirose <i>et al.</i> (2014)	AB917456	-	-	-
<i>Dendrodois grandiflora</i>		Spain	Almada <i>et al.</i> (2016)	KT833268	KT820538	-	-
<i>Dendrodois grandiflora</i>		Spain	Almada <i>et al.</i> (2016)	KT833269	KT820539	-	-
<i>Dendrodois grandiflora</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194018	MW194921	-	MW200264
<i>Dendrodois grandiflora</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194016	MW194922	-	MW200262
<i>Dendrodois</i>		Spain	Galia-Camps	MW194013	-	-	MW200257

<i>grandiflora</i>			<i>et al. (2022)</i>				
<i>Dendrodois grandiflora</i>		Spain	Galia-Camps <i>et al. (2022)</i>	MW194012	MW194925	-	MW200256
<i>Dendrodois grandiflora</i>		Spain	Galia-Camps <i>et al. (2022)</i>	MW194011	MW194926	-	MW200255
<i>Dendrodois guttata</i>		Japan	Hirose <i>et al. (2014)</i>	AB917444	-	-	-
<i>Dendrodois guttata</i>		Japan	Hirose <i>et al. (2014)</i>	AB917446	-	AB917461	-
<i>Dendrodois guttata</i>		Japan	Hirose <i>et al. 2014</i>	AB917445	-	-	-
<i>Dendrodois guttata</i>		Japan	Hirose <i>et al. (2014)</i>	AB917446	-	-	-
<i>Dendrodois guttata</i>		Korea	Park J. 2018 (unpublished)	MG948856	-	-	-
<i>Dendrodois guttata</i>		Korea	Park J. 2018 (unpublished)	MG948855	-	-	-
<i>Dendrodois herytra</i>		Spain	Galia-Camps <i>et al. (2022)</i>	MW194025	MW194915	-	MW200270
<i>Dendrodois krebsii</i>		Cuba	Galia-Camps <i>et al. (2022)</i>	MW194028	MW194912	-	MW200273
<i>Dendrodois krebsii</i>		Cuba	Galia-Camps <i>et al. (2022)</i>	MW194027	MW194913	-	MW200272
<i>Dendrodois krebsii</i>		Cuba	Galia-Camps <i>et al. (2022)</i>	-	MW194911	-	MW200274
<i>Dendrodois krebsii</i>		Cuba	Galia-Camps <i>et al. (2022)</i>	MW194026	MW194914	-	MW200271
<i>Dendrodois limbata</i>		Spain	Galia-Camps <i>et al. (2022)</i>	-	MW194898	-	-
<i>Dendrodois limbata</i>		Spain	Galia-Camps <i>et al. (2022)</i>	-	MW194897	-	-
<i>Dendrodois limbata</i>		Spain	Galia-Camps <i>et al. (2022)</i>	-	MW194901	-	-
<i>Dendrodois limbata</i>		Italy	Galia-Camps <i>et al. (2022)</i>	MW194032	-	-	MW200277
<i>Dendrodois limbata</i>		Spain	Galia-Camps <i>et al. (2022)</i>	MW194031	MW194908	-	MW200276
<i>Dendrodois limbata</i>		Spain	Galia-Camps <i>et al. (2022)</i>	MW194030	MW194909	-	-
<i>Dendrodois limbata</i>		Spain	Galia-Camps <i>et al. 20(2022)22</i>	MW194029	MW194910	-	MW200275
<i>Dendrodois limbata</i>		Italy	Galia-Camps <i>et al. (2022)</i>	MW194009	-	-	MW200253
<i>Dendrodois nigra</i>		Australia	Wollscheid-Lengeling <i>et al. (2001)</i>	AF249795	AF249242	AF249215	-
<i>Dendrodois nigra</i>		Philippines Island	Hallas <i>et al. (2017)</i>	MF958443	MF958318	MF958357	-
<i>Dendrodois nigra</i>		Japan	Hirose <i>et al. (2014)</i>	AB917447	-	AB917462	-
<i>Dendrodois nigra</i>		Japan	Ah Shee Tee 2019 (unpublished)	MN168888	-	-	-
<i>Dendrodois nigra</i>		probably India	Dixit <i>et al. 2021 (unpublished)</i>	-	MT592807	-	-
<i>Dendrodois nigra</i>		south Coast line, Iran	Fatemi <i>et al. 2020 (unpublished)</i>	MN548839	-	-	-
<i>Dendrodois nigra</i>		Hawaii	Paulay <i>et al. 2020 (not published)</i>	MW277667	-	-	-
<i>Dendrodois nigra</i>		Hawaii	Paulay <i>et al. 2020 (not published)</i>	MW277935	-	-	-
<i>Dendrodois nigra</i>		Hawaii	Paulay <i>et al. 2020 (not published)</i>	MW277927	-	-	-
<i>Dendrodois nigra</i>		Hawaii	Paulay <i>et al.</i>	MW278028	-	-	-

			2020 (not published)				
<i>Dendrodoris nigra</i>		Hawaii	Paulay <i>et al.</i> 2020 (not published)	MW277982	-	-	-
<i>Dendrodoris nigra</i>		-	Shields <i>et al.</i> (2009)	-	-	GQ326871	
<i>Dendrodoris sp.</i>	<i>D. nigra</i>	Singapore	Ip <i>et al.</i> 2019	MN690568	-	-	-
<i>Dendrodoris tuberculosa</i>		Korea	Cheney <i>et al.</i> (2014)	KJ001303	-	-	-
<i>Dendrodoris tuberculosa</i>		New Caledonia	Valdés (2002)	-	AF430352	-	-
<i>Dendrodoris senegalensis</i>		Cabo Verde	Galia-Camps <i>et al.</i> (2022)	MW194039	-	-	MW200278
<i>Dendrodoris senegalensis</i>		Cabo Verde	Galia-Camps <i>et al.</i> (2022)	-	MW194905	-	MW200280
<i>Dendrodoris senegalensis</i>		Cabo Verde	Galia-Camps <i>et al.</i> (2022)	MW194038	MW194907	-	MW200286
<i>Dendrodoris senegalensis</i>		Cabo Verde	Galia-Camps <i>et al.</i> (2022)	MW194033	MW194906	-	MW200279
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	-	-	-	MW200260
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194043	MW194894	-	MW200267
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194042	MW194895	-	-
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194041	MW194896	-	MW200288
<i>Dendrodoris temarana</i>		Cabo Verde	Galia-Camps <i>et al.</i> (2022)	MW194040	-	-	MW200287
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194037	MW194899	-	MW200265
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194036	MW194900	-	MW200285
<i>Dendrodoris temarana</i>		Cabo Verde	Galia-Camps <i>et al.</i> (2022)	MW194035	MW194902	-	MW200283
<i>Dendrodoris temarana</i>		Cabo Verde	Galia-Camps <i>et al.</i> (2022)	MW194034	MW194903	-	MW200282
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194024	MW194916	-	MW200269
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194023	MW194917	-	MW200290
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194022	MW194918	-	MW200268
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194021	MW194919	-	MW200289
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194020	MW194920	-	MW200258
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194019	-	-	MW200284
<i>Dendrodoris temarana</i>		Portugal	Galia-Camps <i>et al.</i> (2022)	MW194017	-	-	MW200263
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194015	-	-	MW200259
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194014	MW194924	-	MW200266
<i>Dendrodoris temarana</i>		Spain	Galia-Camps <i>et al.</i> (2022)	MW194010	MW194927	-	MW200254
<i>Dendrodoris temarana</i>		Cabo Verde	Galia-Camps <i>et al.</i> (2022)	-	MW194904	-	MW200281
<i>Dendrodoris temarana</i>		Portugal	Galia-Camps <i>et al.</i> (2022)	-	MW194923	-	MW200261
<i>Dendrodoris temarana</i>		Morocco	Galia-Camps <i>et al.</i> (2022)	MZ710315	MZ429957	-	MZ713159
<i>Dendrodoris temarana</i>		Morocco	Galia-Camps <i>et al.</i> (2022)	MZ710316	MZ429958	-	MZ713160
<i>Dendrodoris temarana</i>		Morocco	Galia-Camps <i>et al.</i> (2022)	MZ710317	MZ429959	-	MZ713161
<i>Dendrodoris temarana</i>		Morocco	Galia-Camps <i>et al.</i> (2022)	MZ710318	MZ429960	-	MZ713162

<i>Doriopsilla albopunctata</i>		Mexico	Valdés (2002)	-	AF430354	-	-
<i>Doriopsilla albopunctata</i>		California	Wetzer <i>et al.</i> 2020 (not published)	MK550636	-	-	-
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002483	-	-	KR002525
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002480	KR002428	-	-
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002481	KR002429	-	KR002524
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002482	KR002430	-	-
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002485	KR002431	-	KR002527
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002486	KR002432	-	KR002528
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002487	KR002433	-	-
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002488	KR002434	-	KR002529
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002489	KR002435	-	KR002530
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> 2015	KR002490	KR002436	-	KR002531
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002491	KR002437	-	KR002532
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002492	KR002438	-	KR002533
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002493	KR002439	-	KR002534
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002494	KR002440	-	KR002535
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002495	KR002441	-	KR002536
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002496	KR002442	-	KR002537
<i>Doriopsilla albopunctata</i>		California	Hoover <i>et al.</i> (2015)	KR002497	KR002443	-	KR002538
<i>Doriopsilla areolata</i>		Croatia	Furfaro <i>et al.</i> (2022)	ON211997	ON229526	-	ON209460
<i>Doriopsilla areolata</i>		Italy	Furfaro <i>et al.</i> (2022)	ON211996	ON229532	-	ON209466
<i>Doriopsilla areolata</i>		Spain	Valdés (2002)	-	AF430355	-	-
<i>Doriopsilla areolata</i>		Spain?	Almada <i>et al.</i> (2016)	-	KT820537	-	-
<i>Doriopsilla areolata</i>	(<i>Doriopsilla pelseneeri</i> (Furfaro <i>et al.</i> 2022))	Andalusia, Spain (Mediterranean)	Thollesson (2000)	AJ223262	AJ225186	-	-
<i>Doriopsilla areolata areolata</i>		Cape Verde	Goodheart & Valdés (2013)	-	KC171027	-	-
<i>Doriopsilla areolata areolata</i>		Cádiz, Spain (Atlantic)	Goodheart & Valdés (2013)	-	KC171025	-	KC171036
<i>Doriopsilla areolata areolata</i>		Girona, Spain (Mediterranean)	Goodheart & Valdés (2013)	-	KC171023	-	KC171040
<i>Doriopsilla areolata areolata</i>		Cádiz, Spain (Atlantic)	Goodheart & Valdés (2013)	-	KC171024	-	KC171035
<i>Doriopsilla areolata areolata</i>		Las Palmas, Spain	Goodheart & Valdés (2013)	-	KC171026	-	KC171037
<i>Doriopsilla areolata albolineata</i>		Angola	Goodheart & Valdés (2013)	-	KC171033	-	KC171039
<i>Doriopsilla areolata albolineata</i>		Angola	Goodheart & Valdés (2013)	-	KC171032	-	-
<i>Doriopsilla areolata albolineata</i>		Angola	Goodheart & Valdés (2013)	-	KC171031	-	KC171038
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i>	KR002517	KR002462	-	KR002553

			(2015)				
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	KR002518	KR002463	-	KR002554
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	KR002519	KR002472	-	KR002549
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	-	KR002464	-	-
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	-	KR002465	-	-
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	-	KR002466	-	KR002555
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	-	KR002467	-	-
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	-	KR002468	-	-
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	-	KR002469	-	-
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	-	KR002470	-	KR002559
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	-	KR002471	-	-
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	-	KR002473	-	-
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	-	KR002474	-	KR002557
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	KR002515	-	-	-
<i>Doriopsilla bertschi</i>		Mexico	Hoover <i>et al.</i> (2015)	KR002516	-	-	-
<i>Doriopsilla davebehrensi</i>		Mexico	Hoover <i>et al.</i> (2015)	KR002520	KR002475	-	KR002564
<i>Doriopsilla davebehrensi</i>		Mexico	Hoover <i>et al.</i> (2015)	KR002521	KR002476	-	KR002564
<i>Doriopsilla davebehrensi</i>		California	Hoover <i>et al.</i> (2015)	KR002522	KR002477	-	-
<i>Doriopsilla davebehrensi</i>		Mexico	Hoover <i>et al.</i> (2015)	-	KR002478	-	KR002566
<i>Doriopsilla gemela</i> (<i>D. areolata</i> based on Hoover <i>et al.</i> 2015)		Mexico	Valdés (2002)	-	AF430356	-	-
<i>Doriopsilla fulva</i>		California	Hoover <i>et al.</i> (2015)	KR002499	KR002445	-	KR002540
<i>Doriopsilla fulva</i>		California	Hoover <i>et al.</i> (2015)	KR002500	KR002446	-	-
<i>Doriopsilla fulva</i>		California	Hoover <i>et al.</i> (2015)	KR002501	KR002447	-	-
<i>Doriopsilla fulva</i>		California	Hoover <i>et al.</i> (2015)	KR002502	KR002448	-	-
<i>Doriopsilla fulva</i>		California	Hoover <i>et al.</i> (2015)	KR002503	KR002449	-	KR002541
<i>Doriopsilla fulva</i>		California	Hoover <i>et al.</i> 2015	KR002498	KR002444	-	KR002539
<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002504	KR002451	-	KR002543
<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002450	KR002542	-	KR002542
<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002505	KR002452	-	KR002542
<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002506	KR002453	-	KR002544
<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002507	KR002454	-	KR002545
<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002508	KR002455	-	KR002546
<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002509	KR002456	-	KR002547
<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002510	KR002457	-	KR002548
<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002511	KR002458	-	KR002549

<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002512	KR002459	-	KR002550
<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002513	KR002460	-	KR002551
<i>Doriopsilla gemela</i>		California	Hoover <i>et al.</i> (2015)	KR002514	KR002461	-	KR002552
<i>Doriopsilla janaina</i>		Equador	Hallas <i>et al.</i> (2017)	-	MF958312	MF958353	-
<i>Doriopsilla janaina</i>		Perú	Goodheart & Valdés (2013)	-	KC171022	-	KC171034
<i>Doriopsilla janaina</i>		Costa Rica	Valdés (2002)	-	AF430357	-	-
<i>Doriopsilla miniata</i>		Japan	Hirose <i>et al.</i> (2014)	AB917457	-	AB917464	-
<i>Doriopsilla miniata</i>		Japan	Hirose <i>et al.</i> (2014)	AB917458	-	-	-
<i>Doriopsilla miniata</i>		South Africa, Atlantic	Goodheart & Valdés (2013)	-	KC171030	-	KC171043
<i>Doriopsilla miniata</i>		South Africa, Atlantic	Goodheart & Valdés (2013)	-	KC171029	-	KC171042
<i>Doriopsilla miniata</i>		South Africa, Atlantic	Goodheart & Valdés (2013)	-	KC171028	-	KC171041
<i>Doriopsilla pelseneeri</i>		Berlengas, Portugal (Atlantic)	Almada <i>et al.</i> (2016)	KT833267	-	-	-
<i>Doriopsilla pelseneeri</i>		Berlengas, Portugal (Atlantic)	Almada <i>et al.</i> (2016)	KT833266	-	-	-
<i>Doriopsilla pelseneeri</i>		Andalusia, Spain (Mediterranean)	Furfaro <i>et al.</i> (2022)	ON211995	ON229525	-	ON209459
<i>Doriopsilla pelseneeri</i>		Berlengas, Portugal (Atlantic)	Almada <i>et al.</i> (2016)	-	KT820536	-	-
<i>Doriopsilla rarispinosa</i>		Italy	Furfaro <i>et al.</i> (2022)	ON211998	ON229527	-	ON209461
<i>Doriopsilla rarispinosa</i>		Italy	Furfaro <i>et al.</i> (2022)	ON211999	ON229528	-	ON209462
<i>Doriopsilla rarispinosa</i>		Italy	Furfaro <i>et al.</i> (2022)	ON212000	ON229529	-	ON209463
<i>Doriopsilla rarispinosa</i>		Italy	Furfaro <i>et al.</i> (2022)	ON212001	ON229530	-	ON209464
<i>Doriopsilla rarispinosa</i>		Italy	Furfaro <i>et al.</i> (2022)	ON212003	ON229533	-	ON209467
<i>Doriopsilla rarispinosa</i>		Italy	Furfaro <i>et al.</i> (2022)	ON212004	ON229534	-	ON209468
<i>Doriopsilla rarispinosa</i>		Italy	Furfaro <i>et al.</i> (2022)	ON212005	ON229535	-	ON209469
<i>Doriopsilla rarispinosa</i>		Italy	Furfaro <i>et al.</i> (2022)	ON212006	ON229536	-	ON209470
<i>Doriopsilla rarispinosa</i>		Tunisia	Furfaro <i>et al.</i> (2022)	ON212002	ON229531	-	ON209465
<i>Doriopsilla rarispinosa</i>		France (Mediterranean)	Furfaro <i>et al.</i> (2022)	ON212007	ON229537	-	ON209471
<i>Doriopsilla rarispinosa</i>		France (Mediterranean)	Furfaro <i>et al.</i> (2022)	ON212008	ON229538	-	ON209472
<i>Doriopsilla rarispinosa</i>		France (Mediterranean)	Furfaro <i>et al.</i> (2022)	-	ON229539	-	ON209473
<i>Doriopsilla rarispinosa</i>		Catalonia, Spain (Mediterranean)	Furfaro <i>et al.</i> (2022)	ON212009	ON229540	-	ON209474
<i>Doriopsilla rarispinosa</i>		Catalonia, Spain	Furfaro <i>et al.</i> (2022)	ON212010	ON229541	-	ON209475

		(mediterranean)					
<i>Doriopsilla</i> sp. 1		Andalusia, Spain (Mediterranean)	Furfaro <i>et al.</i> (2022)	ON211994	ON229524	-	ON209458
<i>Doriopsilla spaldingi</i>		California	Hoover <i>et al.</i> (2015)	KR002479	KR002427	-	KR002523
<i>Aldisa sanguinea</i>		California	Hallas <i>et al.</i> (2017)	MF958435	MF958309	MF958350	-
<i>Aldisa</i> sp.		Malaysia	Hallas <i>et al.</i> (2017)	MF958436	EU982818	MF958351	-
<i>Aldisa zavorensis</i>		-	Hallas <i>et al.</i> (2017)	-	-	-	MF327391
<i>Aldisa fragaria</i>		-	Hallas <i>et al.</i> (2017)	-	-	-	MF327390
<i>Aldisa fragaria</i>		-	Hallas <i>et al.</i> (2017)	-	-	-	MF327389
<i>Aldisa smaragdina</i>		-	Oskars <i>et al.</i> (2015)	-	-	-	KJ022914
<i>Aldisa albatrossae</i>		-	Mahguib & Valdés (2015)	-	-	-	KP871655
<i>Bathydoris aioca</i>			Mahguib & Valdés (2015)	KP871635	KP871682		
<i>Cadlina</i> aff. <i>luteomarginata</i>		Scotland	Hallas <i>et al.</i> (2017)	KM219678	KJ653679	-	KM225828
<i>Cadlina modesta</i>		California	Hallas <i>et al.</i> (2017)	MF958437	MF958310	-	-
<i>Hexabranchnus lacer</i>		-	Hallas <i>et al.</i> (2017), Tibiriçá <i>et al.</i> (2023)	MF958433	MF958305	-	-
<i>Mandelia miocomata</i>		-	Mahguib & Valdés (2015)	KP871646	KP871694	-	-
<i>Phyllidia picta</i>		-	Undap <i>et al.</i> (2019)	MN248542	MN217672	-	-
<i>Phyllidia picta</i>		-	Undap <i>et al.</i> (2019)	MN248545	MN217674	-	-
<i>Phyllidia picta</i>		-	Undap <i>et al.</i> (2019)	MN248546	MN217675	-	-
<i>Phyllidia coelestis</i>		-	Wollscheid-Lengeling <i>et al.</i> (2001)	-	-	AF249209	-
<i>Phyllidia flava</i>		-	Furfaro <i>et al.</i> (2022)	-	-	-	ON209476
<i>Phyllidia larryi</i>		-	Mahguib & Valdés (2015)	-	-	-	KP871672
<i>Phyllidiella pustulosa</i>		-	Undap <i>et al.</i> (2019)	MN248608	MN243996	-	-
<i>Phyllidiella pustulosa</i>		-	Undap <i>et al.</i> (2019)	MN248609	MN243997	-	-
<i>Phyllidiella pustulosa</i>		-	Undap <i>et al.</i> (2019)	MN248607	MN243995	-	-
<i>Phyllidiella pustulosa</i>		-	Wollscheid-Lengeling <i>et al.</i> (2001)	-	-	AF249208	-
<i>Phyllidiella nigra</i>		-	Hallas <i>et al.</i> (2017)	-	-	MF958322	-
<i>Phyllidiopsis krempfi</i>		-	Undap <i>et al.</i> (2019)	MN248649	MN244072	-	-
<i>Phyllidiopsis krempfi</i>		-	Undap <i>et al.</i> (2019)	MN248646	MN244070	-	-
<i>Phyllidiopsis shireenae</i>		-	Undap <i>et al.</i> (2019)	MN248659	MN244082	-	-
<i>Phyllidiopsis cardinalis</i>		-	Cheney <i>et al.</i> 2014	KJ001308	-	-	-
<i>Phyllidiopsis cardinalis</i>		-	Valdés (2002)	-	AF430367	-	-
<i>Phyllidiopsis annae</i>		-	Hallas <i>et al.</i> (2017)	-	-	MF958324	-

<i>Prodonis clavigera</i>		-	Hallas <i>et al.</i> (2017)	-	-	AY165754	-
<i>Prodonis clavigera</i>		-	Hallas <i>et al.</i> (2017)	-	-	MF958320	-
<i>Prodonis clavigera</i>		-	Ortigosa <i>et al.</i> (2017)	-	-	-	MK474134

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Table S2. Intra- and interspecific pairwise uncorrected p-distances of *Dendrodoris* based on 16S data set. Ranges between minimum and maximum distances are given as percentages. Group A: *Dendrodoris temarana* Pruvot-Fol, 1953, *Dendrodoris grandiflora* (Rapp, 1827), *Dendrodoris senegalensis* Bouchet, 1975 and *Dendrodoris herytra* Á. Valdés & Ortea, 1996.

	<i>D. nigra</i>	Group A	<i>D. krebsii</i>	<i>D. limbata</i>	<i>D. fumata</i>	<i>D. tuberculosa</i>	<i>D. krusensternii</i>	<i>D. krusensternii</i>	<i>D. elongata</i>	<i>D. albobrunnea</i>	<i>D. atromaculata</i>
<i>D. nigra</i>	0-4										
Group A	20-24	0-6									
<i>D. krebsii</i>	22-23	5-8	0								
<i>D. limbata</i>	23-25	6-8	0-10	0							
<i>D. fumata</i>	21-24	10-13	12	14	0-1						
<i>D. tuberculosa</i>	51-58	49-55	58	56	58-59	0					
<i>D. krusensternii</i>	48-51	49-51	53	52	52-53	15	0				
<i>D. krusensternii</i>	51-53	50-53	54	52	55-56	14	11	0			
<i>D. elongata</i>	55-56	52-56	55	52	56-57	22	18	19	0		
<i>D. albobrunnea</i>	54-62	52-56	57	53	57-58	20	16	19	16	0	
<i>D. atromaculata</i>	48-52	47-52	52	51	53-54	19	19	17	23	20	0

Table S3. Intra- and interspecific pairwise uncorrected p-distances of *Dendrodoris* Ehrenberg 1831 based on CO1 data set. Ranges between minimum and maximum distances are given as percentages. Group B: *Dendrodoris temarana* Pruvot-Fol, 1953 and *Dendrodoris grandiflora* (Rapp, 1827) (only 2 sequences).

	<i>D. nigra</i> (clade c) Persian Gulf	<i>D. nigra</i> (clade a)	<i>D. nigra</i> (clade b)	Group B (Mediterranean sea)	<i>D. grandiflora</i>	<i>D. krebsii</i>	<i>D. senegalensis</i>	<i>D. herytra</i>	<i>D. limbata</i>	<i>D. fumata</i> (clade e)	<i>D. fumata</i> (clade f)	<i>D. rubra</i> (clade d)	<i>D. arborens</i>	<i>D. guttata</i>	<i>D. citrina</i>	<i>D. krusensternii</i> (clade g)	<i>D. krusensternii</i> (clade h)	<i>D. krusensternii</i> (clade i)	<i>D. krusensternii</i> (clade j)	<i>D. krusensternii</i> (clade k)	<i>D. atromaculata</i>	<i>D. tuberculosa</i>	
<i>D. nigra</i> (clade c Persian Gulf)	0-2																						
<i>D. nigra</i> (clade a)	11-12	0-2																					
<i>D. nigra</i> (clade b)	11-13	7-8	0																				
Group B (Mediterranean sea)	26-30	25-30	27-37	0-3																			
<i>D. grandiflora</i>	25-28	25-27	27-29	8-11	0-1																		
<i>D. krebsii</i>	24-25	23-24	26-29	13-17	12-14	0																	
<i>D. senegalensis</i>	26-27	26-27	27-29	14-17	13-14	16	0-1																
<i>D. herytra</i>	27-28	28-29	31-33	16-20	17-18	19	20	0															
<i>D. limbata</i>	23-26	23-25	25-27	18-22	16-18	17-20	18-26	25-26	0-2														
<i>D. fumata</i> (clade e)	22-25	23-25	25-31	16-19	16-18	18-21	19-25	23-25	16-18	0-2													
<i>D. fumata</i> (clade f)	24-25	25-26	26-30	16-19	19-20	22	21-26	26	18-19	4-6	0												
<i>D. rubra</i> (clade d)	25-27	24-27	27-32	17-19	16-18	21-22	20-25	24-25	16-18	8-11	9-10	0-3											
<i>D. arborens</i>	26-28	27-28	27-31	18-21	17-18	20-21	19-24	24	17-18	18-19	20	20-21	0										
<i>D. guttata</i>	27-29	28-29	26-30	20-23	20-21	24	18-23	22-23	20	18-21	20	19-23	17-19	0-1									
<i>D. citrina</i>	51-58	49-51	52-59	52-59	46-51	51-52	51-57	57	44-47	47-48	48	48-49	48	51-52	0								
<i>D. krusensternii</i> (clade g)	60-66	60-61	56-69	63-70	59-62	62	66-67	67	56-57	60-62	62	63-64	59	61-62	20	0							
<i>D. krusensternii</i> (clade h)	52-60	54	52-55	55-65	50-54	55-56	56-59	57-67	51-54	53-55	57	57-58	56	58-59	19	8	0						
<i>D. krusensternii</i> (clade i)	59-67	57-58	55-58	59-68	58-61	61-62	62-64	59	58-59	58-61	60-61	60-64	58-59	60-62	22	8	6	0					
<i>D. krusensternii</i> (clade j)	59-62	56-58	55-70	65-69	61-63	64	65-68	63-64	60-61	62-63	63	63-65	58-59	64	20	8	6	7-8	0				
<i>D. krusensternii</i> (clade k)	55-63	56-57	56-61	53-64	50-54	57	57-61	61	53-55	54-56	57	57-58	54-55	59-60	20	11	8	11	13	0			
<i>D. atromaculata</i>	56-61	59-60	58-63	61-54	51-54	55-56	57-60	60	50-54	51-55	55	54-56	58-59	59	22	22	19	22	22	21	0		
<i>D. tuberculosa</i>	60-65	59-60	61-65	57-66	52-57	61-62	54-58	58	52-56	52-56	55	54-56	55-56	53-54	23	22	23	24	21	23	22	0	