

CLASS	GENUS	SPECIES	STRAIN ID	Strain synonym	Location	Sampling date	GenBank Acc. No.
Bacillariophyceae	<i>Nitzschia</i>	sp.	VGO1450	--	Alcabre (Vigo Ría, Galicia, Spain)	03/10/2015	--
Chlorophyceae	<i>Tetraselmis</i>	<i>convolutae</i>	VGO1448	--	Carnota (Muros Ría, Galicia, Spain)	24/07/2016	--
Cryptophyceae	<i>Falcomonas</i>	sp.	VGO1490	Cry1V	Bueu (P2 Station) (Pontevedra Ría, Galicia, Spain)	2007	KF734089
Cryptophyceae	<i>Falcomonas</i>	sp.	VGO1500	Cry10V	Bueu (P2 Station) (Pontevedra Ría, Galicia, Spain)	2016	PV739863
Cryptophyceae	<i>Hemiselmis</i>	sp.	VGO1492	Cry6V	Bueu (P2 Station) (Pontevedra Ría, Galicia, Spain)	2007	KF734088, HQ681266
Cryptophyceae	<i>Proteomonas</i>	sp.	VGO1510	Cry14V	Bueu (P2 Station) (Pontevedra Ría, Galicia, Spain)	07/05/2017	PV690025
Cryptophyceae	<i>Rhodomonas</i>	sp.	VGO1491	Cry24V	Toralla Bridge (Vigo Ría, Galicia, Spain)	2018	PV739864
Cryptophyceae	<i>Rhodomonas</i>	sp.	VGO1506	Cry20V	Toralla Bridge (Vigo Ría, Galicia, Spain)	24/03/2019	PV690023
Cryptophyceae	<i>Rhodomonas</i>	sp.	VGO1508	Cry22V	Toralla Bridge (Vigo Ría, Galicia, Spain)	24/03/2019	PP565107
Cryptophyceae	<i>Teleaulax</i>	<i>amphioxeia</i>	VGO1392	Cry13V	Toralla Bridge (Vigo Ría, Galicia, Spain)	07/05/2017	PP565084, PV690024
Cryptophyceae	<i>Teleaulax</i>	<i>amphioxeia</i>	VGO1493	AND-A0710	Huelva (Andalusia, Spain)	2007	KF734087, KP142646
Cryptophyceae	<i>Teleaulax</i>	<i>gracilis</i>	VGO1495	CR6EHU	Nervión-Ibaizabal estuary (Biscay, País Vasco, Spain)	2003	JQ966994, KP142643
Cryptophyceae	<i>Teleaulax</i>	<i>minuta</i>	VGO1496	CR8EHU	Nervión-Ibaizabal estuary (Biscay, País Vasco, Spain)	2003	JQ966996, KP142642
Cryptophyceae	<i>Teleaulax</i>	sp.	VGO1505	Cry19V	Toralla Bridge (Vigo Ría, Galicia, Spain)	24/03/2019	PV690026
Dinophyceae	<i>Alexandrium</i>	<i>affine</i>	VGO1539	PA8V	La Línea de la Concepción (Cádiz, Andalusia, Spain)	1999	AJ632095
Dinophyceae	<i>Alexandrium</i>	<i>andersonii</i>	VGO1415	IFR-A AND DIA2 C6	Etang de Diane - Corse (France)	25/12/2018	--
Dinophyceae	<i>Alexandrium</i>	<i>andersonii</i>	VGO1416	IFR-A AND DIA1 C2	Etang de Diane - Corse (France)	16/12/2018	--
Dinophyceae	<i>Alexandrium</i>	<i>andersonii</i>	VGO1417	IFR-CORS3 C8	Etang de Diane - Corse (France)	30/06/2019	--
Dinophyceae	<i>Alexandrium</i>	<i>andersonii</i>	VGO1418	IFR-CORS2 D2	Etang de Diane - Corse (France)	30/06/2019	--
Dinophyceae	<i>Alexandrium</i>	<i>andersonii</i>	VGO1419	IFR-A AND DIA2 C5	Etang de Diane - Corse (France)	25/12/2018	--
Dinophyceae	<i>Alexandrium</i>	<i>andersonii</i>	VGO1420	IFR-CORS2 F7	Etang de Diane - Corse (France)	30/06/2019	--
Dinophyceae	<i>Alexandrium</i>	<i>andersonii</i>	VGO1421	IFR-A AND DIA2 A3	Etang de Diane - Corse (France)	25/12/2018	--
Dinophyceae	<i>Alexandrium</i>	<i>andersonii</i>	VGO1422	IFR-A AND DIA2 B3	Etang de Diane - Corse (France)	25/12/2018	--
Dinophyceae	<i>Alexandrium</i>	<i>catenella</i>	VGO1532	ACL22N2	Inio, Chiloé Sur (Chile)	2009	--
Dinophyceae	<i>Alexandrium</i>	<i>catenella</i>	VGO1533	SI8, ACSIM	Estación M35 San Isidro (Magallanes, Chile)	01/03/2010	--
Dinophyceae	<i>Alexandrium</i>	<i>margalefi</i>	VGO661	DEL200503E2	Alfacs (Ebro Delta, Tarragona, Catalonia, Spain)	21/03/2003	AM237339
Dinophyceae	<i>Alexandrium</i>	<i>mediterraneum</i>	VGO1540	Bt 30	Tunisia	2008	--
Dinophyceae	<i>Alexandrium</i>	<i>mediterraneum</i>	VGO1543	Bt 32	Tunisia	2008	--
Dinophyceae	<i>Alexandrium</i>	<i>mediterraneum</i>	VGO1541	Bt 36	Tunisia	2008	--
Dinophyceae	<i>Alexandrium</i>	<i>mediterraneum</i>	VGO1542	Bt 37	Tunisia	2008	--
Dinophyceae	<i>Alexandrium</i>	<i>mediterraneum</i>	VGO902	OLFA-B5	Tunisia	2008	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1546	18A	Lagoa d'Óbidos (Portugal)	1948	L38624, L38623, EU707482
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1556	AL10C	Estartit (Catalonia, Spain)	08/06/2002	AJ620856
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1557	AL12C	Estartit (Catalonia, Spain)	08/06/2002	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1547	AL4V	Toralla Bridge (Vigo Ría, Galicia, Spain)	11/05/2000	EU707462
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1548	AL5V	Toralla Bridge (Vigo Ría, Galicia, Spain)	11/05/2000	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1549	CS-323/1, AMAD01	Port River (SA. Australia)	27/10/1987	EU707467
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1550	CS-325/21, AMAD21	Jervois Bridge (Port River, SA. Australia)	08/09/1988	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1551	AMITA	Mar Adriático	2006	FR668142
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1552	IEO-AMP13, AMP13	Port of Palma (Mallorca, Balearic Islands, Spain)	10/05/1995	AM292209
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1553	AMP4	Port of Palma (Mallorca, Balearic Islands, Spain)	10/05/1995	KY783634, EU707479, EU707533, EU707532
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1555	CLONE4, GHmin04	Dinamarca	2001	AY294613
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1559	Min17	Arenys (Catalonia, Spain)	2002	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1558	Min3	Arenys (Catalonia, Spain)	2002	FR668135
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1554	Palmira 1	Palmira (Mallorca, Spain)	1996	KY783636
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1074	C3ISA 02, 260705A3	Baiona (Vigo Ría, Galicia, Spain)	1/7/2005	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1075	C3ISA 03, 260705 A4	Baiona (Vigo Ría, Galicia, Spain)	1/7/2005	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1080	C3ISA 39, 220507B3	Baiona (Vigo Ría, Galicia, Spain)	22/05/2007	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1088	180907B2	Baiona (Vigo Ría, Galicia, Spain)	01/09/2007	--

CLASS	GENUS	SPECIES	STRAIN ID	Strain synonym	Location	Sampling date	GenBank Acc. No.
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1089	--	Baiona (Vigo Ría, Galicia, Spain)	26/9/2006	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO1090	--	Baiona (Vigo Ría, Galicia, Spain)	22/09/2006	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO577	--	La Fosca (Girona, Catalonia, Spain)	11/09/2002	MT078999
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO650	--	Port of Saint Hubert (Britain, France)	07/07/2003	KM438019, KM438027, KF018287, KF018286
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO651	--	Port of Saint Hubert (Britain, France)	07/07/2003	MT079003
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO657	--	Port of Saint Hubert (Britain, France)	08/07/2003	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO663	068B3	Cerdeña, II N SEXT (Italy)	12/05/2003	KC702850
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO694	022A2, 035A1	Mallorca (Balears Islands, Spain)	03/06/2003	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO713	VIL240703A5	Port of Vilanova (Catalonia, Spain)	12/05/2003	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO716	VIL191103C2	Port of Vilanova (Catalonia, Spain)	12/05/2003	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO717	VIL191103C3	Port of Vilanova (Catalonia, Spain)	12/05/2003	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO718	VIL191103C5	Port of Vilanova (Catalonia, Spain)	12/05/2003	--
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO722	CAM191103D4	Port of Cambrills (Tarragona, Spain)	06/04/2003	KY783640
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO874	Boughrara B6	Boughrara (Tunisia)	2006	KM438018
Dinophyceae	<i>Alexandrium</i>	<i>minutum</i>	VGO942	--	Mar Adriático (Italia)	9/7/2008	--
Dinophyceae	<i>Alexandrium</i>	<i>ostenfeldii</i>	VGO1584	C4, AOTV-C4-1	Tvärminne (Baltic Sea)	2008	--
Dinophyceae	<i>Alexandrium</i>	<i>ostenfeldii</i>	VGO956	--	Palamós (Girona, Catalonia, Spain)	27/5/2004	KP782040
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO1560	AC1C	Port of Barcelona (Barcelona, Catalonia, Spain)	15/03/2002	AJ532911
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO1561	AC2C	Port of Barcelona (Barcelona, Catalonia, Spain)	15/03/2002	AJ532912
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO1562	AC6T	Port of Tarragona (Tarragona, Catalonia, Spain)	10/06/2001	--
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO1563	ATTL01, AT01	Etang de Thau (France)	01/11/1998	AJ608263
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO1564	ATTL02, AT02	Etang de Thau (France)	01/11/1998	AJ608264
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO1565	Bz14	Tunisia	2008	--
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO1585	BAHME221, C-7	Port de Port of Palma (Mallorca, Balearic Islands, Spain)	1997	--
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO570	--	Port of Tarragona (Tarragona, Catalonia, Spain)	14/09/2002	--
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO585	--	Port of Tarragona (Tarragona, Catalonia, Spain)	26/09/2002	--
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO598	--	Port of Tarragona (Tarragona, Catalonia, Spain)	01/10/2002	--
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO676	032E1, 034C4	Crique de l'Angle (Étang de Thau, France)	15/09/2003	--
Dinophyceae	<i>Alexandrium</i>	<i>pacificum</i>	VGO817	--	Crique de l'Angle (Étang de Thau, France)	26/10/2004	--
Dinophyceae	<i>Alexandrium</i>	<i>tamarense</i>	VGO1042	--	Ebre Delta (Tarragona, Catalonia, Spain)	06/07/2010	KC633128
Dinophyceae	<i>Alexandrium</i>	<i>tamarense</i>	VGO1462	--	Rebordelo Beach (Bergantiños Cottage, Coruña, Galicia, Spain)	30/08/2021	PV719858
Dinophyceae	<i>Alexandrium</i>	<i>tamutum</i>	VGO1544	SZN29	Gulf of Naples (Italy)	4/5/2006	AJ535372, AJ535378
Dinophyceae	<i>Alexandrium</i>	<i>taylori</i>	VGO1545	CNR-AT4-B2	Siracusa (Italy)	1997	AJ251653
Dinophyceae	<i>Amphidinium</i>	<i>carterae</i>	VGO1520	A01BR	Brasil	01/06/2000	--
Dinophyceae	<i>Amphidinium</i>	<i>carterae</i>	VGO1521	ACRN02	Reunion Island (Indico Ocean)	01/01/1994	--
Dinophyceae	<i>Amphidinium</i>	<i>fijiensis</i>	VGO1514	--	Punta Hidalgo (Tenerife, Canary Islands, Spain)	02/10/2022	PV706800
Dinophyceae	<i>Barrufeta</i>	<i>bravensis</i>	VGO866	--	La Fosca (Girona, Catalonia, Spain)	17/08/2005	FN647676; FN647671
Dinophyceae	<i>Biecheleria</i>	<i>tirezensis</i>	VGO1538	BEA 1549B, VGODTZ1, TIREZ	Tirez Lagoon (Toledo, Castilla-La Mancha, Spain)	2011	LT601379
Dinophyceae	<i>Bysmatrum</i>	<i>subsalsum</i>	VGO1515	--	Punta Hidalgo (Tenerife, Canary Islands, Spain)	02/10/2022	PV706801
Dinophyceae	<i>Coolia</i>	<i>guanchica</i>	VGO1531	TnW	Tenerife (Canary Islands, Spain)	11/09/2003	MK945760
Dinophyceae	<i>Coolia</i>	<i>guanchica</i>	VGO1158	129D5	La Cuevitas Beach (Arona, Tenerife, Canary Islands, Spain)	11/09/2013	KU514006
Dinophyceae	<i>Coolia</i>	<i>malayensis</i>	VGO1526	HABW081211-013 Sample #7, CCFWC425	KML (Long Key, Florida, USA)	05/02/2007	--
Dinophyceae	<i>Coolia</i>	<i>malayensis</i>	VGO1528	TnC	Tenerife (Canary Islands, Spain)	11/09/2013	KU513991
Dinophyceae	<i>Coolia</i>	<i>malayensis</i>	VGO1163	130E2	Punta Hidalgo (Tenerife, Canary Islands, Spain)	11/09/2013	KU5183993
Dinophyceae	<i>Coolia</i>	<i>monotis</i>	VGO1572	CCMP304, CM1V	Vigo Ría (Galicia, Spain)	01/09/1985	KP172276
Dinophyceae	<i>Coolia</i>	<i>monotis</i>	VGO1573	RIKZ4	North Sea, Yerseke (Netherlands)	2000	AJ515260, AM902749.1
Dinophyceae	<i>Coolia</i>	<i>monotis</i>	VGO782	--	Saronikos Gulf (Grecia)	02/04/2004	AM902746
Dinophyceae	<i>Coolia</i>	<i>monotis</i>	VGO831	--	Almerimar (Almería, Andalusia, Spain)	11/04/2005	AM902744

CLASS	GENUS	SPECIES	STRAIN ID	Strain synonym	Location	Sampling date	GenBank Acc. No.
Dinophyceae	<i>Coolia</i>	<i>monotis</i>	VGO941	--	Llavaneres (Catalonia, Spain)	24/4/2008	--
Dinophyceae	<i>Coolia</i>	<i>palmyrensis</i>	VGO1529	TnM	Tenerife (Canary Islands, Spain)	11/09/2013	KU513999
Dinophyceae	<i>Coolia</i>	<i>palmyrensis</i>	VGO1530	TnP	Tenerife (Canary Islands, Spain)	11/09/2003	KU514000
Dinophyceae	<i>Coolia</i>	<i>tropicalis</i>	VGO1527	HABW081211-013 Sample #3, CCFWC532	KML, Long Key (Florida, USA)	05/02/2007	--
Dinophyceae	<i>Dinophysis</i>	<i>acuminata</i>	VGO1349	Dinophysis acuminata CEPA 1	P2 (Pontevedra Ría, Galicia, Spain)	01/05/2016	--
Dinophyceae	<i>Dinophysis</i>	<i>acuminata</i>	VGO1411	--	Toralla Bridge (Vigo Ría, Galicia, Spain)	18/07/2019	--
Dinophyceae	<i>Dinophysis</i>	<i>acuminata</i>	VGO1466	--	Toralla Bridge (Vigo Ría, Galicia, Spain)	20/08/2020	PV731506
Dinophyceae	<i>Dinophysis</i>	<i>acuta</i>	VGO1065	--	Bueu (P2 Station) (Pontevedra Ría, Galicia, Spain)	01/10/2010	--
Dinophyceae	<i>Dinophysis</i>	<i>caudata</i>	VGO1396	E14B	E14B (Vigo Ría, Galicia, Spain)	14/07/2016	--
Dinophyceae	<i>Dinophysis</i>	<i>caudata</i>	VGO1403	--	Vigo Ría (Galicia, Spain)	26/08/2017	--
Dinophyceae	<i>Dinophysis</i>	<i>fortii</i>	VGO1407	--	Toralla Bridge (Vigo Ría, Galicia, Spain)	20/11/2018	--
Dinophyceae	<i>Dinophysis</i>	<i>tripos</i>	VGO1395	D13A	Vigo Ría (Galicia, Spain)	14/07/2016	--
Dinophyceae	<i>Fragilidium</i>	<i>subglobosum</i>	VGO1513	E5	Malpica (Coruña, Galicia, Spain)	24/08/2024	--
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1161	130C3, 136C2	Punta Hidalgo (Tenerife, Canary Islands, Spain)	11/09/2013	KJ620012
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1162	130C5, 136C3	Punta Hidalgo (Tenerife, Canary Islands, Spain)	11/09/2013	KJ620014
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1178	134C4	Punta Hidalgo (Tenerife, Canary Islands, Spain)	11/09/2013	KJ620011
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1179	134D1	Punta Hidalgo (Tenerife, Canary Islands, Spain)	11/09/2013	KJ620010
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1181	128E9, 135D2	Punta Hidalgo (Tenerife, Canary Islands, Spain)	11/09/2013	KY549925
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1184	128D12, 131D12	Punta Hidalgo (Tenerife, Canary Islands, Spain)	11/03/2013	KJ620009
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1186	VGO1166, 134C6	Punta Hidalgo (Tenerife, Canary Islands, Spain)	11/09/2013	HJ922639
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1198	311014F9	Las Américas (Tenerife, Canary Islands, Spain)	27/10/2014	KY448348
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1199	031114E5	Punta Hidalgo (Tenerife, Canary Islands, Spain)	27/10/2014	KY448347
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1201	141B4	La Graciosa (Las Palmas de Gran Canaria, Canary Islands, Spain)	13/03/2015	KY448356
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1262	G10	Punta Hidalgo (Tenerife, Canary Islands, Spain)	27/07/2015	KY448386
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1263	D3	Punta Hidalgo (Tenerife, Canary Islands, Spain)	23/06/2015	KY448380
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1266	A2	Charco Manso (El Hierro, Canary Islands, Spain)	27/09/2015	KY448377
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1270	149A11, 154A12	Caleta de Arriba (Gran Canaria, Canary Islands, Spain)	06/10/2015	KY448417
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1274	051015B6	Charco del Palo (Lanzarote, Canary Islands, Spain)	25/09/2015	KY448389
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1297	150A8, 155B	Caleta de Arriba (Gran Canaria, Canary Islands, Spain)	06/10/2015	KY658670
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1300	141B5, 143A6	La Graciosa (Las Palmas de Gran Canaria, Canary Islands, Spain)	13/03/2015	KY658671
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1481	Gambisa B3	Punta Hidalgo (Tenerife, Canary Islands, Spain)	14/12/2022	PV731251
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1482	Gambisa B4	Punta Hidalgo (Tenerife, Canary Islands, Spain)	14/12/2022	PV731252
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1483	Gambisa D4	Punta Hidalgo (Tenerife, Canary Islands, Spain)	14/12/2022	PV731253
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1484	Gambisa D6	Punta Hidalgo (Tenerife, Canary Islands, Spain)	14/12/2022	PV731254
Dinophyceae	<i>Gambierdiscus</i>	<i>australes</i>	VGO1485	Gambisa D7	Punta Hidalgo (Tenerife, Canary Islands, Spain)	14/12/2022	PV731255
Dinophyceae	<i>Gambierdiscus</i>	<i>balechii</i>	VGO920	093B9	Manado (Indonesia)	16/02/2007	KX384639
Dinophyceae	<i>Gambierdiscus</i>	<i>caribaeus</i>	VGO1364	Pl12B3	Port of Santiago Beach (La Gomera, Canary Islands, Spain)	09/10/2017	MK649659
Dinophyceae	<i>Gambierdiscus</i>	<i>caribaeus</i>	VGO1365	Pl12C5	Port of Santiago Beach (La Gomera, Canary Islands, Spain)	09/10/2017	MK649655
Dinophyceae	<i>Gambierdiscus</i>	<i>caribaeus</i>	VGO1366	Pl3E4	Port of Santiago Beach (La Gomera, Canary Islands, Spain)	09/10/2017	MK649660
Dinophyceae	<i>Gambierdiscus</i>	<i>caribaeus</i>	VGO1377	Pl9E5	Port of Santiago Beach (La Gomera, Canary Islands, Spain)	09/10/2017	MK649663
Dinophyceae	<i>Gambierdiscus</i>	<i>carolinianus</i>	VGO1524	CUB-9C6	Cuba	2016	--
Dinophyceae	<i>Gambierdiscus</i>	<i>carolinianus</i>	VGO1525	CUB-9C8	Cuba	2016	--
Dinophyceae	<i>Gambierdiscus</i>	<i>carolinianus</i>	VGO1197	311014D3	Alcalá (Tenerife, Canary Islands, Spain)	27/10/2014	KY448346
Dinophyceae	<i>Gambierdiscus</i>	<i>excentricus</i>	VGO1357	Pl15B4	Valle Rey-Charco del Conde (La Gomera, Canary Islands, Spain)	08/10/2017	MK649629
Dinophyceae	<i>Gambierdiscus</i>	<i>excentricus</i>	VGO1361	Pl16C4	Valle Rey-Charco del Conde (La Gomera, Canary Islands, Spain)	08/10/2017	MK649634
Dinophyceae	<i>Gambierdiscus</i>	<i>excentricus</i>	VGO1373	Pl3C3	La Zamora Beach (La Palma, Canary Islands, Spain)	06/10/2017	MK649635
Dinophyceae	<i>Gambierdiscus</i>	<i>excentricus</i>	VGO1374	Pl9C2	Valle Rey - Charco del Conde. Station 49 (La Gomera, Canary Islands, Spain)	08/10/2017	MK649642
Dinophyceae	<i>Gambierdiscus</i>	<i>excentricus</i>	VGO1383	Pl9B2	Valle Rey-Charco del Conde (La Gomera, Canary Islands, Spain)	08/10/2017	MK649640
Dinophyceae	<i>Gambierdiscus</i>	<i>excentricus</i>	VGO791	048E11	Punta Hidalgo (Tenerife, Canary Islands, Spain)	28/03/2004	--

CLASS	GENUS	SPECIES	STRAIN ID	Strain synonym	Location	Sampling date	GenBank Acc. No.
Dinophyceae	<i>Gambierdiscus</i>	<i>silvae</i>	VGO1180	128B7, 131A5, 133A2, 132A4, 135A4	Punta Hidalgo (Tenerife, Canary Islands, Spain)	11/09/2013	KJ909865
Dinophyceae	<i>Gambierdiscus</i>	<i>silvae</i>	VGO1368	PL9D4	Valle Rey-Charco del Conde (La Gomera, Canary Islands, Spain)	08/10/2017	MK649620
Dinophyceae	<i>Gambierdiscus</i>	<i>silvae</i>	VGO1376	PI9D7	Santiago Beach (La Gomera, Canary Islands, Spain)	07/10/2017	MK649618
Dinophyceae	<i>Gymnodinium</i>	<i>catenatum</i>	VGO1567	Est2D6	Rías Baixas (Galicia, Spain)	2005	--
Dinophyceae	<i>Gymnodinium</i>	<i>catenatum</i>	VGO1566	GC54AM	La Aturana (Cádiz, Andalusia, Spain)	18/08/1999	--
Dinophyceae	<i>Gymnodinium</i>	<i>catenatum</i>	VGO1486	FRE7	Toralla Bridge (Vigo Ría, Galicia, Spain)	11/11/2024	PV266024
Dinophyceae	<i>Gymnodinium</i>	<i>catenatum</i>	VGO1487	FRF2	Toralla Bridge (Vigo Ría, Galicia, Spain)	16/10/2024	--
Dinophyceae	<i>Gymnodinium</i>	<i>catenatum</i>	VGO1488	FRB2	Toralla Bridge (Vigo Ría, Galicia, Spain)	16/10/2024	--
Dinophyceae	<i>Gymnodinium</i>	<i>catenatum</i>	VGO744	Algeria B8	Algeria	2004	FN647678
Dinophyceae	<i>Gymnodinium</i>	<i>impudicum</i>	VGO1571	GY6V	La Línea de la concepción (Cádiz, Andalusia, Spain)	18/08/1999	--
Dinophyceae	<i>Gymnodinium</i>	<i>impudicum</i>	VGO665	--	Kervoyal (Damgan, Bretagne, France)	11/08/2003	--
Dinophyceae	<i>Gymnodinium</i>	<i>microreticulatum</i>	VGO328	PRAIA-1	Panxón Beach (Nigrán, Galicia, Spain)	15/07/2000	--
Dinophyceae	<i>Gymnodinium</i>	<i>nolleri</i>	VGO1519	VGO-922I, 922I	Kattegat (Denmark)	30/05/1996	AM998535
Dinophyceae	<i>Heterocapsa</i>	<i>cf. pygmaea</i>	VGO1143	129C8	La Cuevitas Beach (Arona, Tenerife, Canary Islands, Spain)	11/09/2013	--
Dinophyceae	<i>Heterocapsa</i>	<i>minima</i>	VGO1398	--	Toralla Bridge (Vigo Ría, Galicia, Spain)	01/09/2017	PP565093
Dinophyceae	<i>Heterocapsa</i>	<i>niei</i>	VGO623	003C2	Lorbé (L1) (A Coruña, Galicia, Spain)	21/03/2002	--
Dinophyceae	<i>Heterocapsa</i>	<i>triquetra</i>	VGO1570	PZ15_53, RCC4813	Penzé (Britain, France)	12/06/2015	KY095034
Dinophyceae	<i>Karenia</i>	<i>mikimotoi</i>	VGO1537	SCCAP K-0260, KT77B	Oslofjorden (Norway)	1977	AF200680
Dinophyceae	<i>Karlodinium</i>	<i>veneficum</i>	VGO1111	K6, ICMB-261	Alfacs (Ebro Delta, Tarragona, Catalonia, Spain)	06/2007	PP565094, JF906082
Dinophyceae	<i>Karlodinium</i>	<i>veneficum</i>	VGO1119	K10	Alfacs (Ebro Delta, Tarragona, Catalonia, Spain)	2007	--
Dinophyceae	<i>Karlodinium</i>	<i>veneficum</i>	VGO1516	--	EF (Fixed Station) (Vigo Ría, Galicia, Spain)	26/11/2024	--
Dinophyceae	<i>Kryptoperidinium</i>	<i>triquetrum</i>	VGO1124	Baiona 06A1	Baiona (Vigo Ría, Galicia, Spain)	2006	OP256599
Dinophyceae	<i>Kryptoperidinium</i>	<i>triquetrum</i>	VGO556	--	Ulla Estuary (Arousa Ría, Galicia, Spain)	20/05/2002	OP264867
Dinophyceae	<i>Lepidodinium</i>	<i>chlorophorum</i>	VGO1094	DN16EHU?	Port of Zierbena (País Vasco, Spain)	16/09/2007	--
Dinophyceae	<i>Levanderina</i>	<i>fissa</i>	VGO146	GY	Baiona (Vigo Ría, Galicia, Spain)	1990	--
Dinophyceae	<i>Lingulaulax</i>	<i>polyedra</i>	VGO1204	--	--	2015	--
Dinophyceae	<i>Matsuokaea</i>	<i>loeblichii</i>	VGO1449	--	Toralla (Vigo Ría, Galicia, Spain)	04/10/2018	--
Dinophyceae	<i>Ostreopsis</i>	<i>cf. lenticularis</i>	VGO1523	CBA0203	Honolulu (Hawaii, USA)	4/7/2010	JX065561, JX065552
Dinophyceae	<i>Ostreopsis</i>	<i>cf. ovata</i>	VGO1586	CBA-6-AC-B3	Manado (Indonesia)	16/2/2008	FM244725, FM997922
Dinophyceae	<i>Ostreopsis</i>	<i>cf. ovata</i>	VGO1107	210809-1	Llavaneres (Barcelona, Catalonia, Spain)	1/8/2009	--
Dinophyceae	<i>Ostreopsis</i>	<i>cf. ovata</i>	VGO1195	CAN311014E7	Playa San Juan (Tenerife, Canary Islands, Spain)	27/10/2014	--
Dinophyceae	<i>Ostreopsis</i>	<i>cf. ovata</i>	VGO1235	148C2	La Estaca (El Hierro, Canary Islands, Spain)	29/9/2015	PV731256
Dinophyceae	<i>Ostreopsis</i>	<i>cf. ovata</i>	VGO614	--	Abra Bay (Madeira, Portugal)	7/11/2002	FM244642, FM994897
Dinophyceae	<i>Ostreopsis</i>	<i>cf. ovata</i>	VGO693	--	Sousse (Tunisia)	15/12/2003	FM244636, FM994894
Dinophyceae	<i>Ostreopsis</i>	<i>cf. ovata</i>	VGO820	059A12, 060A3	Es Codolar (Tossa de Mar, Girona, Spain)	19/9/2004	FM244634, FM994892
Dinophyceae	<i>Ostreopsis</i>	<i>cf. siamensis</i> (sp. 9)	VGO1187	Zahara	Tarifa (Cádiz, Andalusia, Spain)	4/9/2014	KJ970826
Dinophyceae	<i>Ostreopsis</i>	<i>fattorusoi</i>	VGO1014	115A8	Las Cabras Beach (La Palma Island, Canary Islands, Spain)	13/3/2010	KP970821
Dinophyceae	<i>Ostreopsis</i>	<i>fattorusoi</i>	VGO1150	128C3	Punta Hidalgo (Tenerife, Canary Islands, Spain)	11/9/2013	KP970825
Dinophyceae	<i>Ostreopsis</i>	<i>fattorusoi</i>	VGO999	MGP-2015	Famara (Lanzarote, Canary Islands, Spain)	2/12/2008	KP970827
Dinophyceae	<i>Ostreopsis</i>	sp.	VGO1011	115A2	Las Cabras Beach (La Palma Island, Canary Islands, Spain)	13/3/2010	--
Dinophyceae	<i>Ostreopsis</i>	sp.	VGO1234	148B6	La Estaca (El Hierro, Canary Islands, Spain)	29/9/2015	--
Dinophyceae	<i>Ostreopsis</i>	sp. 1	VGO1056	Belize Jar 10 Ost.1; (4)	Belize (North America)	7/5/2009	JX065577
Dinophyceae	<i>Ostreopsis</i>	sp. 1	VGO1061	FP Dock Ost 3	Ft. Pierce (Florida, USA)	15/7/2008	--
Dinophyceae	<i>Prorocentrum</i>	<i>arenarium</i>	VGO776	--	Punta Hidalgo (Tenerife, Canary Islands, Spain)	2004	KY053858, EU244470, OM967030, OM966940
Dinophyceae	<i>Prorocentrum</i>	<i>balticum</i>	VGO365	--	Vigo Ría (Galicia, Spain)	15/09/2001	EU244472
Dinophyceae	<i>Prorocentrum</i>	<i>cassubicum</i>	VGO834	--	Almerimar (Almería, Andalusia, Spain)	2005	--
Dinophyceae	<i>Prorocentrum</i>	<i>cordatum</i>	VGO1577	AND1V	San Pedro river (Cádiz, Andalusia, Spain)	28/1/1997	--
Dinophyceae	<i>Prorocentrum</i>	<i>cordatum</i>	VGO367	--	Toralla Bridge (Vigo Ría, Galicia, Spain)	5/10/2001	--

CLASS	GENUS	SPECIES	STRAIN ID	Strain synonym	Location	Sampling date	GenBank Acc. No.
Dinophyceae	<i>Prorocentrum</i>	<i>cordatum</i>	VGO955	--	Mar Adriático	16/7/2008	--
Dinophyceae	<i>Prorocentrum</i>	<i>hoffmannianum</i>	VGO1031	112G4	La Puntilla (Las Palmas de Gran Canaria, Canary Islands, Spain)	2010	KT275812
Dinophyceae	<i>Prorocentrum</i>	<i>hoffmannianum</i>	VGO1283	230315B07	La Graciosa (Las Palmas de Gran Canaria, Canary Islands, Spain)	13/03/2025	--
Dinophyceae	<i>Prorocentrum</i>	<i>levis</i>	VGO1236	148D3	La Estaca (El Hierro, Canary Islands, Spain)	29/09/2015	--
Dinophyceae	<i>Prorocentrum</i>	<i>lima</i>	VGO1574	PL27V	Chancelas Beach (Pontevedra Ría, Galicia, Spain)	17/10/1997	PV718212
Dinophyceae	<i>Prorocentrum</i>	<i>lima</i>	VGO1575	PL2V	Cíes lagoon (Vigo Ría, Galicia, Spain)	1985	OM966941
Dinophyceae	<i>Prorocentrum</i>	<i>lima</i>	VGO1576	PL7V	Bueu (Pontevedra Ría, Galicia, Spain)	1990	EF517253, EF517265
Dinophyceae	<i>Prorocentrum</i>	<i>lima</i>	VGO1522	PLMA01	Illa de Mayotte (O. Indico)	n.a.	--
Dinophyceae	<i>Prorocentrum</i>	<i>micans</i>	VGO1579	PM9, PM1V	Vigo Ría (Galicia, Spain)	1985	EU244467
Dinophyceae	<i>Prorocentrum</i>	<i>rathymum</i>	VGO680	032A5	Crique de l'Angle (Étang de Thau, France)	15/09/2003	EF517274
Dinophyceae	<i>Prorocentrum</i>	<i>rathymum</i>	VGO761	DEL210803B5	Delta Ebro (Catalonia, Spain)	18/8/2003	EU244465
Dinophyceae	<i>Prorocentrum</i>	sp.	VGO1200	141A5	La Graciosa (Las Palmas de Gran Canaria, Canary Islands, Spain)	2015	--
Dinophyceae	<i>Prorocentrum</i>	sp.	VGO1239	148B8	La Estaca (El Hierro, Canary Islands, Spain)	29/09/2015	--
Dinophyceae	<i>Prorocentrum</i>	sp.	VGO1245	151D3	Boca Chica (Dominican Republic)	3/11/2015	--
Dinophyceae	<i>Prorocentrum</i>	<i>triestinum</i>	VGO1578	PT	Vigo Ría (Galicia, Spain)	1983	--
Dinophyceae	<i>Prorocentrum</i>	<i>triestinum</i>	VGO672	--	Kervoyal (Damgan, Britain, France)	11/08/2003	EU244469
Dinophyceae	<i>Protoceratium</i>	<i>reticulatum</i>	VGO1568	GG1AM	La Atunara (Cádiz, Andalusia, Spain)	1999	FJ155824, FJ155838, FJ489626
Dinophyceae	<i>Protoceratium</i>	<i>reticulatum</i>	VGO1534	PR Aysen (Clon 1), PRAY1	Seno Queulat (Aysén, Chile)	2010	KX852381
Dinophyceae	<i>Protoceratium</i>	<i>reticulatum</i>	VGO1535	P10C3, PRAY3	Seno Queulat (Aysén, Chile)	2010	KX852380
Dinophyceae	<i>Protoceratium</i>	<i>reticulatum</i>	VGO1536	PR4 (Clon 4), PRENM	Engelfield (Magallanes, Chile)	2013	KX852382
Dinophyceae	<i>Protoceratium</i>	<i>reticulatum</i>	VGO757	DEL200503A7	Els Alfacs (Ebro Delta, Catalonia, Spain)	2003	FJ155819, KX852384, FJ155830
Dinophyceae	<i>Protoceratium</i>	<i>reticulatum</i>	VGO758	DEL070503D3	Els Alfacs (Ebro Delta, Catalonia, Spain)	2003	FJ155817, FJ155831
Dinophyceae	<i>Protoceratium</i>	<i>reticulatum</i>	VGO904	--	Bueu (Pontevedra Ría, Galicia, Spain)	19/6/2006	KX852385, FJ489630
Dinophyceae	<i>Protoceratium</i>	<i>reticulatum</i>	VGO905	--	Bueu (Pontevedra Ría, Galicia, Spain)	19/6/2006	FJ155823, FJ155837
Dinophyceae	<i>Scrippsiella</i>	<i>acuminata</i>	VGO1569	S3V	Vigo Ría (Galicia, Spain)	9/09/1989	MH359389
Dinophyceae	<i>Scrippsiella</i>	<i>ramonii</i>	VGO1053	071005E2	Ebro Delta (Catalonia, Spain)	2005	MG912614
Dinophyceae	<i>Scrippsiella</i>	<i>rotunda</i>	VGO1518	--	EF (Fixed Station) (Vigo Ría, Galicia, Spain)	25/02/2025	PV701270
Dinophyceae	<i>Scrippsiella</i>	sp.	VGO1140	071005E5	Ebro Delta (Catalonia, Spain)	2005	OR752868
Dinophyceae	<i>Symbiodinium</i>	<i>natans</i>	VGO1345	--	Costa Calero (Lanzarote, Canary Islands, Spain)	2015	PV707177
Dinophyceae	<i>Takayama</i>	sp.	VGO341	Baiona K-B9	Baiona (Galicia, Spain)	2002	AM183261
Dinophyceae	<i>Thecadinium</i>	<i>brassicum</i>	VGO1478	0623	O Vao Beach (Vigo Ría, Galicia, Spain)	05/06/2023	--
Dinophyceae	<i>Thecadinium</i>	<i>brassicum</i>	VGO1479	0723	O Vao Beach (Vigo Ría, Galicia, Spain)	05/07/2023	--
Dinophyceae	<i>Thecadinium</i>	<i>brassicum</i>	VGO1480	D50624	O Vao Beach (Vigo Ría, Galicia, Spain)	05/06/2024	--
Dinophyceae	<i>Tripos</i>	<i>fusus</i>	VGO1399	--	Vigo Ría (Galicia, Spain)	2015	--
Prymnesiophyceae	<i>Emiliana</i>	<i>huxleyi</i>	VGO1581	EH02V	Estai Cape (Vigo, Galicia, Spain)	2001	--
Prymnesiophyceae	<i>Prymnesium</i>	<i>faveolatum</i>	VGO557	008C5	Pixavaques (Tarragona, Catalonia, Spain)	13/06/2002	--
Pyramimonadophyceae	<i>Pyramimonas</i>	sp.	VGO1580	PY01V	Lorbé (Galicia, Spain)	2000	--
Raphidophyceae	<i>Heterosigma</i>	<i>akashiwo</i>	VGO1582	HA1V	Arousa Ría (Galicia, Spain)	1989	AF157385
Raphidophyceae	<i>Heterosigma</i>	<i>akashiwo</i>	VGO1583	HA3V	Panxón Beach (Nigrán, Galicia, Spain)	2000	--