

Supporting information

S2 Table. All information used for COI gene sequence analyses in Fig 2 and 3. np: not published

Specimen N°	ID	Sampling location	GenBank accession number	Haplotype	Reference	Species
1	ATL01	Bay of Biscay (France)	MG981563	HC01	this study	<i>D. dentex</i>
2	ATL02	Bay of Biscay (France)	MG981564	HC01	this study	<i>D. dentex</i>
3	ATL03	Bay of Biscay (France)	MG981565	HC01	this study	<i>D. dentex</i>
4	ATL04	Bay of Biscay (France)	MG981566	HC01	this study	<i>D. dentex</i>
5	ATL06	Bay of Biscay (France)	MG981568	HC01	this study	<i>D. dentex</i>
6	ATL07	Bay of Biscay (France)	MG981569	HC01	this study	<i>D. dentex</i>
7	ATL08	Bay of Biscay (France)	MG981570	HC01	this study	<i>D. dentex</i>
8	DT001	Ajaccio (Corsica, France)	MG981571	HC01	this study	<i>D. dentex</i>
9	DT004	Bonifacio (Corsica, France)	MG981572	HC01	this study	<i>D. dentex</i>
10	DT007	Bonifacio (Corsica, France)	MG981574	HC01	this study	<i>D. dentex</i>
11	DT011	Bonifacio (Corsica, France)	MG981575	HC01	this study	<i>D. dentex</i>
12	DT013	Bonifacio (Corsica, France)	MG981576	HC01	this study	<i>D. dentex</i>
13	DT031	Giraglia (Corsica, France)	MG981577	HC01	this study	<i>D. dentex</i>
14	DT032	Giraglia (Corsica, France)	MG981578	HC01	this study	<i>D. dentex</i>
15	DT033	Ajaccio (Corsica, France)	MG981579	HC01	this study	<i>D. dentex</i>
16	DT036	Ajaccio (Corsica, France)	MG981581	HC01	this study	<i>D. dentex</i>
17	DT038	Ajaccio (Corsica, France)	MG981582	HC01	this study	<i>D. dentex</i>
18	DT054	St Florent (Corsica, France)	MG981584	HC01	this study	<i>D. dentex</i>
19	DT055	St Florent (Corsica, France)	MG981585	HC01	this study	<i>D. dentex</i>
20	DT059	St Florent (Corsica, France)	MG981587	HC01	this study	<i>D. dentex</i>
21	DT069	Galeria (Corsica, France)	MG981588	HC01	this study	<i>D. dentex</i>
22	DT072	Galeria (Corsica, France)	MG981590	HC01	this study	<i>D. dentex</i>
23	DT120	Alicante (Spain)	MG981613	HC01	this study	<i>D. dentex</i>
24	DT122	Alicante (Spain)	MG981614	HC01	this study	<i>D. dentex</i>
25	DT125	Alicante (Spain)	MG981615	HC01	this study	<i>D. dentex</i>
26	DT145	Otranto (South Adriatic, Italy)	MG981617	HC01	this study	<i>D. dentex</i>
27	DT150	Otranto (South Adriatic, Italy)	MG981620	HC01	this study	<i>D. dentex</i>
28	DT153	Otranto (South Adriatic, Italy)	MG981621	HC01	this study	<i>D. dentex</i>
29	DT168	Heraklion (North Crete, Greece)	MG981622	HC01	this study	<i>D. dentex</i>
30	DT169	Heraklion (North Crete, Greece)	MG981623	HC01	this study	<i>D. dentex</i>
31	DT172	Heraklion (North Crete, Greece)	MG981625	HC01	this study	<i>D. dentex</i>
32	DT180	Heraklion (North Crete, Greece)	MG981626	HC01	this study	<i>D. dentex</i>
33	DT194	North Aegean (Greece)	MG981628	HC01	this study	<i>D. dentex</i>
34	DT196	North Aegean (Greece)	MG981629	HC01	this study	<i>D. dentex</i>
35	DT197	North Aegean (Greece)	MG981630	HC01	this study	<i>D. dentex</i>
36	DT199	North Aegean (Greece)	MG981631	HC01	this study	<i>D. dentex</i>
37	DT217	North Tunisia	MG981632	HC01	this study	<i>D. dentex</i>
38	DT246	South Tunisia	MG981634	HC01	this study	<i>D. dentex</i>
39	DT277	St Raphael (France)	MG981635	HC01	this study	<i>D. dentex</i>
40	DT280	St Raphael (France)	MG981638	HC01	this study	<i>D. dentex</i>
41	DT283	St Raphael (France)	MG981640	HC01	this study	<i>D. dentex</i>
42	DT284	St Raphael (France)	MG981641	HC01	this study	<i>D. dentex</i>
43	DT285	St Raphael (France)	MG981642	HC01	this study	<i>D. dentex</i>
44	DT288	Giraglia (Corsica, France)	MG981643	HC01	this study	<i>D. dentex</i>
45	DT294	Giraglia (Corsica, France)	MG981644	HC01	this study	<i>D. dentex</i>

46	DT346	Giraglia (Corsica, France)	MG981645	HC01	this study	<i>D. dentex</i>
47	DT391	Bastia (Corsica, France)	MG981646	HC01	this study	<i>D. dentex</i>
48	DT395	Bastia (Corsica, France)	MG981648	HC01	this study	<i>D. dentex</i>
49	DT396	Bastia (Corsica, France)	MG981649	HC01	this study	<i>D. dentex</i>
50	DT398	Bastia (Corsica, France)	MG981651	HC01	this study	<i>D. dentex</i>
51	DT431	Baleares (Spain)	MG981652	HC01	this study	<i>D. dentex</i>
52	DT432	Baleares (Spain)	MG981653	HC01	this study	<i>D. dentex</i>
53	DT433	Baleares (Spain)	MG981654	HC01	this study	<i>D. dentex</i>
54	DT434	Baleares (Spain)	MG981655	HC01	this study	<i>D. dentex</i>
55	DT437	Baleares (Spain)	MG981656	HC01	this study	<i>D. dentex</i>
56	DT439	Baleares (Spain)	MG981657	HC01	this study	<i>D. dentex</i>
58	DT456	Lampedusa (Italy)	MG981659	HC01	this study	<i>D. dentex</i>
59	DT457	Lampedusa (Italy)	MG981660	HC01	this study	<i>D. dentex</i>
60	DT459	Lampedusa (Italy)	MG981662	HC01	this study	<i>D. dentex</i>
61	DT476	Sardinia (Italy)	MG981664	HC01	this study	<i>D. dentex</i>
62	DT480	Sardinia (Italy)	MG981666	HC01	this study	<i>D. dentex</i>
63	DT490	Sardinia (Italy)	MG981667	HC01	this study	<i>D. dentex</i>
64	DD01	np	JQ623927	HC01	np	<i>D. dentex</i>
65	DD02	Turkey	KC500461	HC01	Keskin & Atar 2013	<i>D. dentex</i>
66	DD03	Turkey	KC500459	HC01	Keskin & Atar 2013	<i>D. dentex</i>
67	DD04	Turkey	KC500458	HC01	Keskin & Atar 2013	<i>D. dentex</i>
68	DD05	Turkey	KC500457	HC01	Keskin & Atar 2013	<i>D. dentex</i>
69	DD06	Turkey	KC500456	HC01	Keskin & Atar 2013	<i>D. dentex</i>
70	DD07	Turkey	KC500455	HC01	Keskin & Atar 2013	<i>D. dentex</i>
71	DD08	Turkey	KC500463	HC01	Keskin & Atar 2013	<i>D. dentex</i>
72	DD23	np	KT883591	HC01	Sanciango <i>et al.</i> 2016	<i>D. dentex</i>
73	DD27	Mediterranean	KJ012327	HC01	Armani <i>et al.</i> 2015	<i>D. dentex</i>
74	ATL05	Bay of Biscay (France)	MG981567	HC02	this study	<i>D. dentex</i>
75	DT397	Bastia (Corsica, France)	MG981650	HC02	this study	<i>D. dentex</i>
76	DT006	Bonifacio (Corsica, France)	MG981573	HC03	this study	<i>D. dentex</i>
77	DT070	Galeria (Corsica, France)	MG981589	HC03	this study	<i>D. dentex</i>
78	DT117	Alicante (Spain)	MG981612	HC03	this study	<i>D. dentex</i>
79	DT149	Otranto (South Adriatic, Italy)	MG981619	HC03	this study	<i>D. dentex</i>
80	DT171	Heraklion (North Crete, Greece)	MG981624	HC03	this study	<i>D. dentex</i>
81	DT193	North Aegean (Greece)	MG981627	HC03	this study	<i>D. dentex</i>
82	DT225	North Tunisia	MG981633	HC03	this study	<i>D. dentex</i>
83	DT392	Bastia (Corsica, France)	MG981647	HC03	this study	<i>D. dentex</i>
84	DT458	Lampedusa (Italy)	MG981661	HC03	this study	<i>D. dentex</i>
85	DT460	Lampedusa (Italy)	MG981663	HC03	this study	<i>D. dentex</i>
86	DD22	Egypt	KP308272	HC03	np	<i>D. dentex</i>
87	DD24	Western Mediterranean	KJ012326	HC03	Armani <i>et al.</i> 2015	<i>D. dentex</i>
88	DT035	Ajaccio (Corsica, France)	MG981580	HC04	this study	<i>D. dentex</i>
89	DT053	St Florent (Corsica, France)	MG981583	HC05	this study	<i>D. dentex</i>
90	DT477	Sardinia (Italy)	MG981665	HC05	this study	<i>D. dentex</i>
91	DT058	St Florent (Corsica, France)	MG981586	HC06	this study	<i>D. dentex</i>
92	DT073	Galeria (Corsica, France)	MG981591	HC07	this study	<i>D. dentex</i>
93	DT129	Alicante (Spain)	MG981616	HC08	this study	<i>D. dentex</i>
94	DT147	Otranto (South Adriatic, Italy)	MG981618	HC09	this study	<i>D. dentex</i>
95	DT278	St Raphael (France)	MG981636	HC10	this study	<i>D. dentex</i>
96	DT279	St Raphael (France)	MG981637	HC11	this study	<i>D. dentex</i>
97	DT281	St Raphael (France)	MG981639	HC12	this study	<i>D. dentex</i>
98	DT491	Sardinia (Italy)	MG981668	HC13	this study	<i>D. dentex</i>
99	DT492	Sardinia (Italy)	MG981669	HC14	this study	<i>D. dentex</i>

100	DD09	Turkey	KC500462	HC15	Keskin & Atar 2013	<i>D. dentex</i>
101	DD10	Turkey	KC500460	HC15	Keskin & Atar 2013	<i>D. dentex</i>
102	DD11	Turkey	KC500464	HC15	Keskin & Atar 2013	<i>D. dentex</i>
103	DD12	Turkey	KC500465	HC15	Keskin & Atar 2013	<i>D. dentex</i>
104	DD13	Turkey	KC500466	HC15	Keskin & Atar 2013	<i>D. dentex</i>
105	DD14	Turkey	KC500467	HC16	Keskin & Atar 2013	<i>D. dentex</i>
106	DD15	Turkey	KC500468	HC16	Keskin & Atar 2013	<i>D. dentex</i>
107	DD16	Turkey	KC500469	HC16	Keskin & Atar 2013	<i>D. dentex</i>
108	DD17	Turkey	KC500470	HC16	Keskin & Atar 2013	<i>D. dentex</i>
109	DD18	Turkey	KC500471	HC17	Keskin & Atar 2013	<i>D. dentex</i>
110	DD19	Turkey	KC500472	HC17	Keskin & Atar 2013	<i>D. dentex</i>
111	DD20	Turkey	KC500453	HC17	Keskin & Atar 2013	<i>D. dentex</i>
112	DD21	Turkey	KC500454	HC18	Keskin & Atar 2013	<i>D. dentex</i>
113	DD25	Western Mediterranean	KJ012328	HC19	Armani <i>et al.</i> 2015	<i>D. dentex</i>
115	DGIB01	Eastern Central Atlantic Ocean	KJ012330	HC21	Armani <i>et al.</i> 2015	<i>D. gibbosus</i>
116	DGIB02	Egypt	LC152206	HC21	np	<i>D. gibbosus</i>
117	DT086	Faro (Bargelloni samples)	MG981592	HC21	this study	<i>D. gibbosus</i>
118	DT099	Faro (Bargelloni samples)	MG981603	HC21	this study	<i>D. gibbosus</i>
119	DT100	Faro (Bargelloni samples)	MG981604	HC21	this study	<i>D. gibbosus</i>
120	DT102	Faro (Bargelloni samples)	MG981606	HC21	this study	<i>D. gibbosus</i>
121	DT103	Faro (Bargelloni samples)	MG981607	HC21	this study	<i>D. gibbosus</i>
122	DT104	Faro (Bargelloni samples)	MG981608	HC21	this study	<i>D. gibbosus</i>
123	DT105	Faro (Bargelloni samples)	MG981609	HC21	this study	<i>D. gibbosus</i>
124	DT106	Faro (Bargelloni samples)	MG981610	HC21	this study	<i>D. gibbosus</i>
125	DT087	Faro (Bargelloni samples)	MG981593	HC22	this study	<i>D. gibbosus</i>
126	DT092	Faro (Bargelloni samples)	MG981598	HC23	this study	<i>D. gibbosus</i>
127	DT094	Faro (Bargelloni samples)	MG981599	HC24	this study	<i>D. gibbosus</i>
128	DT091	Faro (Bargelloni samples)	MG981597	HC25	this study	<i>D. gibbosus</i>
129	DT095	Faro (Bargelloni samples)	MG981600	HC25	this study	<i>D. gibbosus</i>
130	DT096	Faro (Bargelloni samples)	MG981601	HC25	this study	<i>D. gibbosus</i>
131	DT097	Faro (Bargelloni samples)	MG981602	HC26	this study	<i>D. gibbosus</i>
132	DT101	Faro (Bargelloni samples)	MG981605	HC27	this study	<i>D. gibbosus</i>
133	DT107	Faro (Bargelloni samples)	MG981611	HC27	this study	<i>D. gibbosus</i>
134	DT088	Faro (Bargelloni samples)	MG981594	HC28	this study	?
135	DT089	Faro (Bargelloni samples)	MG981595	HC28	this study	?
136	DT090	Faro (Bargelloni samples)	MG981596	HC29	this study	?
137	DCAN01	Eastern Central Atlantic Ocean	KJ012325	HC30	Armani <i>et al.</i> 2015	<i>D. canariensis</i>
138	CNUF01	South Africa	JF493134	HC31	np	<i>Cheimerius nufar</i>
139	CNUF03	South Africa	HQ611102	HC32	Cawthorn <i>et al.</i> 2011	<i>Cheimerius nufar</i>
140	CNUF04	South Africa	HQ611103	HC32	Cawthorn <i>et al.</i> 2011	<i>Cheimerius nufar</i>
141	CNUF05	South Africa	HQ611104	HC32	Cawthorn <i>et al.</i> 2011	<i>Cheimerius nufar</i>
142	CNUF06	Western Indian Ocean	KJ012317	HC32	Armani <i>et al.</i> 2015	<i>Cheimerius nufar</i>
143	CNUF07	Western Indian Ocean	KJ012319	HC32	Armani <i>et al.</i> 2015	<i>Cheimerius nufar</i>
144	CNUF09	Western Indian Ocean	KJ012318	HC33	Armani <i>et al.</i> 2015	<i>Cheimerius nufar</i>
145	CNUF02	South Africa	HQ611105	HC34	Cawthorn <i>et al.</i> 2011	<i>Cheimerius nufar</i>
146	CNUF08	Western Indian Ocean	KJ012316	HC34	Armani <i>et al.</i> 2015	<i>Cheimerius nufar</i>
147	CNUF10	np	KT883592	HC34	Sanciango <i>et al.</i> 2016	<i>Cheimerius nufar</i>
148	PCAE01	np	JN868714	HC35	np	<i>Pagrus caeruleostictus</i>
149	PCAE10	Western Mediterranean	KJ012409	HC35	Armani <i>et al.</i> 2015	<i>Pagrus caeruleostictus</i>
150	PCAE02	South China Sea	KF857267	HC36	np	<i>Pagrus caeruleostictus</i>
151	PCAE03	South China Sea	KF857268	HC37	np	<i>Pagrus caeruleostictus</i>
152	PCAE04	Israel	KM538479	HC38	np	<i>Pagrus caeruleostictus</i>
153	PCAE05	Israel	KM538481	HC38	np	<i>Pagrus caeruleostictus</i>

154	PCAE09	Israel	KM538480	HC38	np	<i>Pagrus caeruleostictus</i>
155	PCAE06	Israel	KM538478	HC39	np	<i>Pagrus caeruleostictus</i>
156	PCAE07	Israel	KM538477	HC40	np	<i>Pagrus caeruleostictus</i>
157	PCAE08	Israel	KM538476	HC41	np	<i>Pagrus caeruleostictus</i>
158	PCAE11	Eastern Mediterranean	KJ012407	HC42	Armani <i>et al.</i> 2015	<i>Pagrus caeruleostictus</i>
159	PCAE12	Eastern Central Atlantic Ocean	KJ012411	HC43	Armani <i>et al.</i> 2015	<i>Pagrus caeruleostictus</i>
160	PCAE13	Eastern Central Atlantic Ocean	KJ012408	HC44	Armani <i>et al.</i> 2015	<i>Pagrus caeruleostictus</i>
161	DMAR01	Eastern Mediterranean Sea	KJ012335	HC45	Armani <i>et al.</i> 2015	<i>D. maroccanus</i>
162	DMAR02	Eastern Mediterranean Sea	KJ012334	HC46	Armani <i>et al.</i> 2015	<i>D. maroccanus</i>
163	DMAC01	Eastern Mediterranean Sea	KJ012331	HC47	Armani <i>et al.</i> 2015	<i>D. macrophthalmus</i>
164	DMAC02	Eastern Mediterranean Sea	KJ012333	HC48	Armani <i>et al.</i> 2015	<i>D. macrophthalmus</i>
165	DMAC03	Eastern Mediterranean Sea	KJ012332	HC49	Armani <i>et al.</i> 2015	<i>D. macrophthalmus</i>
166	DANG01	Eastern Central Atlantic Ocean	KJ012323	HC50	Armani <i>et al.</i> 2015	<i>D. angolensis</i>
167	DANG02	Eastern Central Atlantic Ocean	KJ012321	HC50	Armani <i>et al.</i> 2015	<i>D. angolensis</i>
168	VACR01	Eastern Central Atlantic Ocean	KJ012449	HC51	Armani <i>et al.</i> 2015	<i>Viridentexacromegalus</i>
169	VACR02	np	KT883595	HC51	Sanciango <i>et al.</i> 2016	<i>Viridentexacromegalus</i>
170	SAUR1	Western Mediterranean	KJ012432	SAUR1	Armani <i>et al.</i> 2015	<i>Sparus aurata</i>
171	TR1587EK	Turkey	KC501566	SAUR2	Keskin & Alar 2013	<i>Sparus aurata</i>
172	DPUN1	Western Central Atlantic	KJ012347	DPUN1	Armani <i>et al.</i> 2015	<i>Diplodus puntazzo</i>
173	TR598EK	Turkey	KC500572	DPUN2	Keskin & Alar 2013	<i>Diplodus puntazzo</i>