

Table S1. Species, locality, Sequence ID, analyses in this study, and GenBank accession numbers of specimens of *Squalus*.

Species	Locality	Sequence ID	ABGD	PTP	GMYC	ID Genbank	Reference
<i>Squalus blainville</i>	Aegean Sea	KU198581SbAesea	3	8	1	KU198581	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198516SbMedt	3	8	1	KU198516	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198579SbAesea	3	8	1	KU198579	Kousteni et al. [45]
<i>Squalus blainville</i>	Hannaba - Algeria	KT307445SbDZA	3	8	1	KT307445	Kousteni et al. [45]
<i>Squalus blainville</i>	Cretan Sea	KU198504SbCrsea	3	8	2	KU198504	Kousteni et al. [45]
<i>Squalus blainville</i>	Malta	KJ709926SbMLT	3	8	2	KJ709926	Landi et al. [47]
<i>Squalus blainville</i>	Cretan Sea	KU198517SbIosea	3	8	2	KU198517	Kousteni et al. [45]
<i>Squalus blainville</i>	Sicily - Italy	KJ709641SbITA	3	8	2	KJ709641	Landi et al. [47]
<i>Squalus blainville</i>	Malta	KY909556SbMLT	3	8	2	KY909556	Vella et al. [28]
<i>Squalus blainville</i>	Malta	KY909558SbMLT	3	8	2	KY909558	Vella et al. [28]
<i>Squalus blainville</i>	Malta	KY909549SbMLT	3	8	2	KY909549	Vella et al. [28]
<i>Squalus blainville</i>	Malta	KJ709924SbMLT	3	8	2	KJ709924	Landi et al. [47]
<i>Squalus blainville</i>	Greece	KP192406SbGRC	3	8	2	KP192406	Gkafas et al. [54]
<i>Squalus blainville</i>	Sardina - Italy	MF828596SbITA	3	8	2	MF828596	Bellodi et al. [22]
<i>Squalus blainville</i>	Sardina - Italy	MF828599SbITA	3	8	2	MF828599	Bellodi et al. [22]
<i>Squalus blainville</i>	Sardina - Italy	MF828603SbITA	3	8	2	MF828603	Bellodi et al. [22]
<i>Squalus blainville</i>	Sardina - Italy	MF828606SbITA	3	8	2	MF828606	Bellodi et al. [22]
<i>Squalus blainville</i>	Sardina - Italy	MF828607SbITA	3	8	2	MF828607	Bellodi et al. [22]
<i>Squalus blainville</i>	Sardina - Italy	MF828612SbITA	3	8	2	MF828612	Bellodi et al. [22]
<i>Squalus blainville</i>	Ionian Sea	KU198522SbIosea	3	8	2	KU198522	Kousteni et al. [45]
<i>Squalus blainville</i>	Libyan Sea	KU198545SbLbsea	3	8	2	KU198545	Kousteni et al. [45]
<i>Squalus blainville</i>	Malta	KY909552SbMLT	3	8	2	KY909552	Vella et al. [28]
<i>Squalus blainville</i>	Malta	KJ709925SbMLT	3	8	2	KJ709925	Landi et al. [47]
<i>Squalus blainville</i>	Malta	KY909559SbMLT	3	8	2	KY909559	Vella et al. [28]
<i>Squalus blainville</i>	Ionian Sea	KU198507SbCrsea	3	8	2	KU198507	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198512SbMedt	3	8	2	KU198512	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198515SbMedt	3	8	2	KU198515	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198533SbMedt	3	8	2	KU198533	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198540SbMedt	3	8	2	KU198540	Kousteni et al. [45]
<i>Squalus blainville</i>	Libyan Sea	KU198552SbLbsea	3	8	2	KU198552	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198568SbAesea	3	8	2	KU198568	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198571SbAesea	3	8	2	KU198571	Kousteni et al. [45]

<i>Squalus blainville</i>	Aegean Sea	KU198588SbAesea	3	8	2	KU198588	Kousteni et al. [45]
<i>Squalus blainville</i>	Libyan Sea	KU198563SbLbsea	3	8	2	KU198563	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198573SbAesea	3	8	3	KU198573	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198589SbAesea	3	8	3	KU198589	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198570SbAesea	3	8	3	KU198570	Kousteni et al. [45]
<i>Squalus blainville</i>	Libyan Sea	KU198561SbLbsea	3	8	3	KU198561	Kousteni et al. [45]
<i>Squalus blainville</i>	Libyan Sea	KU198555SbLbsea	3	8	3	KU198555	Kousteni et al. [45]
<i>Squalus blainville</i>	Libyan Sea	KU198549SbLbsea	3	8	3	KU198549	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198542SbMedt	3	8	3	KU198542	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198541SbMedt	3	8	3	KU198541	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198539SbMedt	3	8	3	KU198539	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198536SbMedt	3	8	3	KU198536	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198532SbMedt	3	8	3	KU198532	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198528SbMedt	3	8	3	KU198528	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198524SbMedt	3	8	3	KU198524	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198519SbMedt	3	8	3	KU198519	Kousteni et al. [45]
<i>Squalus blainville</i>	Cyclades Islands	KU198510SbCyI	3	8	3	KU198510	Kousteni et al. [45]
<i>Squalus blainville</i>	Cretan Sea	KU198505SbCrsea	3	8	3	KU198505	Kousteni et al. [45]
<i>Squalus blainville</i>	Cretan Sea	KU198499SbCrsea	3	8	3	KU198499	Kousteni et al. [45]
<i>Squalus blainville</i>	Cretan Sea	KU198498SbCrsea	3	8	3	KU198498	Kousteni et al. [45]
<i>Squalus blainville</i>	Cretan Sea	KU198497SbCrsea	3	8	3	KU198497	Kousteni et al. [45]
<i>Squalus blainville</i>	the Balearic Islands	KU198491SbBAIS	3	8	3	KU198491	Kousteni et al. [45]
<i>Squalus blainville</i>	Malta	KY909547SbMLT	3	8	3	KY909547	Vella et al. [28]
<i>Squalus blainville</i>	Malta	KY909548SbMLT	3	8	3	KY909548	Vella et al. [28]
<i>Squalus blainville</i>	Malta	KY909553SbMLT	3	8	3	KY909553	Vella et al. [28]
<i>Squalus blainville</i>	Malta	KY909554SbMLT	3	8	3	KY909554	Vella et al. [28]
<i>Squalus blainville</i>	Malta	KY909557SbMLT	3	8	3	KY909557	Vella et al. [28]
<i>Squalus blainville</i>	Sardina - Italy	MF828598SbITA	3	8	3	MF828598	Bellodi et al. [22]
<i>Squalus blainville</i>	Sardina - Italy	MF828600SbITA	3	8	3	MF828600	Bellodi et al. [22]
<i>Squalus blainville</i>	Sardina - Italy	MF828604SbITA	3	8	3	MF828604	Bellodi et al. [22]
<i>Squalus blainville</i>	Sardina - Italy	MF828605SbITA	3	8	3	MF828605	Bellodi et al. [22]
<i>Squalus blainville</i>	Sardina - Italy	MF828609SbITA	3	8	3	MF828609	Bellodi et al. [22]
<i>Squalus blainville</i>	Sardina - Italy	MF828611SbITA	3	8	3	MF828611	Bellodi et al. [22]
<i>Squalus blainville</i>	Sardina - Italy	MF828613SbITA	3	8	3	MF828613	Bellodi et al. [22]
<i>Squalus blainville</i>	Balearic Islands	KU198488SbBAIS	3	8	3	KU198488	Kousteni et al. [45]

<i>Squalus blainville</i>	Agulhas Bank - South Africa	JF494585SbZAF	3	8	3	JF494585	Steinke et al. [53]
<i>Squalus blainville</i>	Malta	KY909550SbMLT	3	8	3	KY909550	Vella et al. [28]
<i>Squalus blainville</i>	Cretan Sea	KU198509SbCrsea	3	8	3	KU198509	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198594SbAesea	3	8	3	KU198594	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198569SbAesea	3	8	3	KU198569	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198521SbMedt	3	8	3	KU198521	Kousteni et al. [45]
<i>Squalus blainville</i>	Sardina - Italy	MF828608SbITA	3	8	3	MF828608	Bellodi et al. [22]
<i>Squalus blainville</i>	the north Aegean Sea	KU198585SbAesea	3	8	3	KU198585	Kousteni et al. [45]
<i>Squalus blainville</i>	the north Aegean Sea	KU198591SbAesea	3	8	3	KU198591	Kousteni et al. [45]
<i>Squalus blainville</i>	Malta	KJ709923SbMLT	3	8	3	KJ709923	Landi et al. [47]
<i>Squalus blainville</i>	Ionian Sea	KU198520SbMedt	3	8	3	KU198520	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198526SbMedt	3	8	3	KU198526	Kousteni et al. [45]
<i>Squalus blainville</i>	Ionian Sea	KU198556SbLbsea	3	8	3	KU198556	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198584SbAesea	3	8	3	KU198584	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198576SbAesea	3	8	3	KU198576	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198592SbAesea	3	8	3	KU198592	Kousteni et al. [45]
<i>Squalus blainville</i>	Cretan_Sea	KU198525SbMedt	3	8	3	KU198525	Kousteni et al. [45]
<i>Squalus blainville</i>	Malta	KY909555SbMLT	3	8	4	KY909555	Vella et al. [28]
<i>Squalus blainville</i>	Malta	KY909551SbMLT	3	8	4	KY909551	Vella et al. [28]
<i>Squalus blainville</i>	Sardina - Italy	MF828610SbITA	3	8	4	MF828610	Bellodi et al. [22]
<i>Squalus blainville</i>	the north Aegean Sea	KU198582SbAesea	3	8	4	KU198582	Kousteni et al. [45]
<i>Squalus blainville</i>	Cretan Sea	KU198492SbCrsea	3	8	4	KU198492	Kousteni et al. [45]
<i>Squalus blainville</i>	Aegean Sea	KU198567SbAesea	3	8	4	KU198567	Kousteni et al. [45]
<i>Squalus blainville</i>	Sardina - Italy	MF828601SbITA	3	9	4	MF828601	Bellodi et al. [22]
<i>Squalus brevirostris</i>	Kyushu-chiho - Japan	EF539293SbrJPN	3	9	5	EF539293	Ward et al. [27]
<i>Squalus brevirostris</i>	Kyushu-chiho - Japan	EF539295SbrJPN	3	9	5	EF539295	Ward et al. [27]
<i>Squalus brevirostris</i>	Kyushu-chiho - Japan	EF539294SbrJPN	3	9	5	EF539294	Ward et al. [27]
<i>Squalus brevirostris</i>	Minna Island - Japan	MT123834SbrJPN	3	9	5	MT123834	Ziadi-Künzli et al. [25]
<i>Squalus brevirostris</i>	Minna Island - Japan	MT123833SbrJPN	3	9	5	MT123833	Ziadi-Künzli et al. [25]
<i>Squalus brevirostris</i>	Minna Island - Japan	MT123832SbrJPN	3	9	5	MT123832	Ziadi-Künzli et al. [25]
<i>Squalus brevirostris</i>	Minna Island - Japan	MT123831SbrJPN	3	9	5	MT123831	Ziadi-Künzli et al. [25]
<i>Squalus brevirostris</i>	Minna Island - Japan	MT123830SbrJPN	3	9	5	MT123830	Ziadi-Künzli et al. [25]
<i>Squalus brevirostris</i>	Minna Island - Japan	MT123829SbrJPN	3	9	5	MT123829	Ziadi-Künzli et al. [25]
<i>Squalus cubensis</i>	Gulf of Mexico - Mexico	MG792174ScuMEX	3	7	6	MG792174	Pfleger et al. [4]
<i>Squalus cubensis</i>	Gulf of Mexico - Mexico	MG792175ScuMEX	3	7	6	MG792175	Pfleger et al. [4]

<i>Squalus cubensis</i>	Gulf of Mexico - Mexico	MG792172ScuMEX	3	7	6	MG792172	Pfleger et al. [4]
<i>Squalus cubensis</i>	Gulf of Mexico - Mexico	FN431670ScuMEX	3	7	6	FN431670	Stelbrink et al. [48]
<i>Squalus cubensis</i>	Rio Grande do Sul - Brazil	MG703562ScuMEX	3	7	6	MG703562	Almeron-Souza et al. [49]
<i>Squalus cubensis</i>	Gulf of Mexico - Mexico	MG792171ScuMEX	3	7	6	MG792171	Pfleger et al. [4]
<i>Squalus cubensis</i>	Gulf of Mexico - Mexico	MG792173ScuMEX	3	7	6	MG792173	Pfleger et al. [4]
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89714SalBRA	3	7	7	ON827468	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89715SalBRA	3	7	7	ON827458	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89710SalBRA	3	7	7	ON827459	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89708SalBRA	3	7	7	ON827460	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89706SalBRA	3	7	7	ON827461	this study
<i>Squalus albicaudus</i>	Pernambuco - Brazil	140FCSalBRA	3	7	7	ON827466	this study
<i>Squalus albicaudus</i>	Pernambuco - Brazil	066FCSalBRA	3	7	7	ON827467	this study
<i>Squalus albicaudus</i>	Pernambuco - Brazil	223FCSalBRA	3	7	7	ON827463	this study
<i>Squalus albicaudus</i>	Pernambuco - Brazil	233FCSalBRA	3	7	7	ON827462	this study
<i>Squalus albicaudus</i>	Pernambuco - Brazil	190FCSalBRA	3	7	7	ON827465	this study
<i>Squalus albicaudus</i>	Pernambuco - Brazil	218FCSalBRA	3	7	7	ON827464	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89709SalBRA	3	7	7	ON827456	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89719SalBRA	3	7	7	ON827452	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89713SalBRA	3	7	7	ON827453	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89712SalBRA	3	7	7	ON827454	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89711SalBRA	3	7	7	ON827455	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89707SalBRA	3	7	7	ON827457	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89795SalBRA	3	7	7	ON827451	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89796SalBRA	3	7	7	ON827450	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89798SalBRA	3	7	7	ON827449	this study
<i>Squalus albicaudus</i>	Rio de Janeiro - Brazil	89799SalBRA	3	7	7	ON827448	this study
<i>Squalus edmundsi</i>	Western Australia	DQ108258SeAUS	2	6	8	DQ108258	Ward et al. [27]
<i>Squalus edmundsi</i>	Western Australia	EU399026SeAUS	2	6	8	EU399026	Ward et al. [27]
<i>Squalus edmundsi</i>	Western Australia	DQ108252SeAUS	2	6	8	DQ108252	Ward et al. [27]
<i>Squalus edmundsi</i>	Western Australia	DQ108243SeAUS	2	6	8	DQ108243	Ward et al. [27]
<i>Squalus edmundsi</i>	Bali - Indonesia	EU399025SeIDN	2	6	8	EU399025	Ward et al. [27]
<i>Squalus edmundsi</i>	Australia	DQ108245SeAUS	2	6	8	DQ108245	Ward et al. [27]
<i>Squalus edmundsi</i>	Western Australia	EU399027SeAUS	2	6	8	EU399027	Ward et al. [27]
<i>Squalus edmundsi</i>	Australia	DQ108246SeAUS	2	6	8	DQ108246	Ward et al. [27]
<i>Squalus edmundsi</i>	Western Australia	DQ108251SeAUS	2	6	8	DQ108251	Ward et al. [27]

<i>Squalus edmundsi</i>	Western Australia	DQ108266SeAUS	2	6	8	DQ108266	Ward et al. [27]
<i>Squalus edmundsi</i>	Western Australia	DQ108244SeAUS	2	6	8	DQ108244	Ward et al. [27]
<i>Squalus edmundsi</i>	Western Australia	DQ108265SeAUS	2	6	8	DQ108265	Ward et al. [27]
<i>Squalus edmundsi</i>	Nusa Tenggara Barat - Indone	EF539303SeIDN	2	6	8	EF539303	Ward et al. [27]
<i>Squalus edmundsi</i>	Nusa Tenggara Barat - Indone	EF539304SeIDN	2	6	8	EF539304	Ward et al. [27]
<i>Squalus edmundsi</i>	Nusa Tenggara Barat - Indone	EF539302SeIDN	2	6	8	EF539302	Ward et al. [27]
<i>Squalus edmundsi</i>	Bali - Indonesia	EF539305SeIDN	2	6	8	EF539305	Ward et al. [27]
<i>Squalus edmundsi</i>	Bali - Indonesia	EF539306SeIDN	2	6	8	EF539306	Ward et al. [27]
<i>Squalus mitsukurii</i>	Rio Grande do Sul - Brazil	MG703563SmBRA	2	4	9	MG703563	Almeron-Souza et al. [49]
<i>Squalus mitsukurii</i>	California - USA	7253SmUSA	2	4	9	ON827477	this study
<i>Squalus mitsukurii</i>	Rio Grande do Sul - Brazil	MG703564SmBRA	2	4	9	MG703564	Almeron-Souza et al. [49]
<i>Squalus mitsukurii</i>	California - USA	7265SmUSA	2	4	9	ON827469	this study
<i>Squalus cf. mitsukurii</i>	Gulf of Mexico - Mexico	KX949979ScfmMEX	2	4	10	KX949979	Verissimo et al. [50]
<i>Squalus cf. mitsukurii</i>	Gulf of Mexico	KX949974ScfmMEX	2	4	10	KX949974	Verissimo et al. [21]
<i>Squalus mitsukurii</i>	California - USA	12245SmUSA	2	4	10	ON827470	this study
<i>Squalus cf. mitsukurii</i>	Gulf of Mexico - Mexico	KX949975ScfmMEX	2	4	10	KX949975	Verissimo et al. [50]
<i>Squalus mitsukurii</i>	California - USA	12240SmUSA	2	4	10	ON827472	this study
<i>Squalus mitsukurii</i>	California - USA	12242SmUSA	2	4	10	ON827471	this study
<i>Squalus mitsukurii</i>	California - USA	12239SmUSA	2	4	10	ON827473	this study
<i>Squalus mitsukurii</i>	California - USA	12237SmUSA	2	4	10	ON827475	this study
<i>Squalus mitsukurii</i>	California - USA	12238SmUSA	2	4	10	ON827474	this study
<i>Squalus mitsukurii</i>	California - USA	12236SmUSA	2	4	10	ON827476	this study
<i>Squalus mitsukurii</i>	California - USA	1968SmUSA	2	4	10	ON827485	this study
<i>Squalus mitsukurii</i>	California - USA	1969SmUSA	2	4	10	ON827486	this study
<i>Squalus mitsukurii</i>	Pernambuco - Brazil	214FLSmBRA	2	4	10	ON827483	this study
<i>squalus mitsukurii</i>	Pernambuco - Brazil	259FLSmBRA	2	4	10	ON827478	this study
<i>Squalus mitsukurii</i>	Pernambuco - Brazil	254FLSmBRA	2	4	10	ON827479	this study
<i>Squalus mitsukurii</i>	Pernambuco - Brazil	235FLSmBRA	2	4	10	ON827481	this study
<i>Squalus mitsukurii</i>	Pernambuco - Brazil	237FLSmBRA	2	4	10	ON827480	this study
<i>Squalus mitsukurii</i>	Pernambuco - Brazil	215FLSmBRA	2	4	10	ON827482	this study
<i>Squalus mitsukurii</i>	Pernambuco - Brazil	205FLSmBRA	2	4	10	ON827484	this study
<i>Squalus clarkae</i>	northeastern Gulf of Mexico	MG792164SclGmex	2	4	11	MG792164	Pfleger et al. [4]
<i>Squalus clarkae</i>	northeastern Gulf of Mexico	MG792162SclGmex	2	4	11	MG792162	Pfleger et al. [4]
<i>Squalus clarkae</i>	northeastern Gulf of Mexico	MG792163SclGmex	2	4	11	MG792163	Pfleger et al. [4]
<i>Squalus clarkae</i>	northeastern Gulf of Mexico	MG792161SclGmex	2	4	11	MG792161	Pfleger et al. [4]

<i>Squalus clarkae</i>	northeastern Gulf of Mexico	MG792165SclGmex	2	4	11	MG792165	Pfleger et al. [4]
<i>Squalus grahami</i>	Queensland - Australia	EU399028SgAUS	2	3	12	EU399028	Ward et al. [27]
<i>Squalus grahami</i>	New South Whales - Australia	DQ108273SgAUS	2	3	12	DQ108273	Ward et al. [27]
<i>Squalus grahami</i>	New South Whales - Australia	DQ108239SgAUS	2	3	12	DQ108239	Ward et al. [27]
<i>Squalus grahami</i>	New South Whales - Australia	DQ108238SgAUS	2	3	12	DQ108238	Ward et al. [27]
<i>Squalus grahami</i>	New South Whales - Australia	DQ108237SgAUS	2	3	12	DQ108237	Ward et al. [27]
<i>Squalus grahami</i>	New South Whales - Australia	DQ108236SgAUS	2	3	12	DQ108236	Ward et al. [27]
<i>Squalus grahami</i>	New South Whales - Australia	DQ108235SgAUS	2	3	12	DQ108235	Ward et al. [27]
<i>Squalus japonicus</i>	Taikyuson Seamount - Japan	MT123853SjJPN	2	5	13	MT123853	Ziadi-Künzli et al. [25]
<i>Squalus japonicus</i>	Taikyuson Seamount - Japan	MT123854SjJPN	2	5	13	MT123854	Ziadi-Künzli et al. [25]
<i>Squalus japonicus</i>	Taikyuson Seamount - Japan	MT123852SjJPN	2	5	13	MT123852	Ziadi-Künzli et al. [25]
<i>Squalus japonicus</i>	Taikyuson Seamount - Japan	MT123851SjJPN	2	5	13	MT123851	Ziadi-Künzli et al. [25]
<i>Squalus japonicus</i>	Taikyuson Seamount - Japan	MT123850SjJPN	2	5	13	MT123850	Ziadi-Künzli et al. [25]
<i>Squalus japonicus</i>	Taikyuson Seamount - Japan	MT123849SjJPN	2	5	13	MT123849	Ziadi-Künzli et al. [25]
<i>Squalus japonicus</i>	Tawian	MK012557SjTWN	2	5	13	MK012557	Daly-Engel et al. [3]
<i>Squalus japonicus</i>	Tawian	MK005129SjTWN	2	5	13	MK005129	Daly-Engel et al. [3]
<i>Squalus japonicus</i>	Tawian	MK005128SjTWN	2	5	13	MK005128	Daly-Engel et al. [3]
<i>Squalus japonicus</i>	Suruga Bay - Japan	MK005127SjJPN	2	5	13	MK005127	Daly-Engel et al. [3]
<i>Squalus japonicus</i>	Suruga Bay - Japan	MK005130SjJPN	2	5	13	MK005130	Daly-Engel et al. [3]
<i>Squalus acanthias</i>	Nova Scotia - Canada	KC015924SaCAN	1	1	14	KC015924	Mccusker et al. [51]
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq72SaARG	1	1	14	ON827422	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq105SaARG	1	1	14	ON827423	this study
<i>Squalus acanthias</i>	Massachusetts - USA	KC015925SaUSA	1	1	14	KC015925	Mccusker et al. [51]
<i>Squalus acanthias</i>	North Sea	KJ205208SaNsea	1	1	14	KJ205208	Knebelsberger et al. [52]
<i>Squalus acanthias</i>	North Sea	KJ205210SaNsea	1	1	14	KJ205210	Knebelsberger et al. [52]
<i>Squalus acanthias</i>	Argentina	EU074606SaARG	1	1	15	EU074606	Mabragana et al. [31]
<i>Squalus acanthias</i>	Patagonia - Argentina	060UNMDPSaPata	1	1	15	ON827418	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	059UNMDPSaPata	1	1	15	ON827419	this study
<i>Squalus acanthias</i>	Argentina	EU074605SaARG	1	1	15	EU074605	Mabragana et al. [31]
<i>Squalus acanthias</i>	Patagonia - Argentina	058UNMDPSaPata	1	1	15	ON827420	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	056UNMDPSaPata	1	1	15	ON827421	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	SQ13SaARG	1	1	16	ON827427	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq108SaARG	1	1	16	ON827428	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq35SaARG	1	1	16	ON827426	this study
<i>Squalus acanthias</i>	Argentina	EU074608SaARG	1	1	16	EU074608	Mabragana et al. [31]

<i>Squalus acanthias</i>	USA	KC015929SaUSA	1	1	16	KC015929	Mccusker et al. [51]
<i>Squalus acanthias</i>	Argentina	EU074599SaARG	1	1	16	EU074599	Mabragana et al. [31]
<i>Squalus acanthias</i>	USA	KC015927SaUSA	1	1	16	KC015927	Mccusker et al. [51]
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq54SaARG	1	1	16	ON827424	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq102SaARG	1	1	16	ON827425	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq45SaARG	1	1	16	ON827431	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq42SaARG	1	1	16	ON827432	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq32SaARG	1	1	16	ON827433	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq31SaARG	1	1	16	ON827434	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq101SaARG	1	1	16	ON827447	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	SQ29SaARG	1	1	16	ON827435	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	SQ16SaARG	1	1	16	ON827436	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	SQ15SaARG	1	1	16	ON827437	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	SQ12SaARG	1	1	16	ON827438	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	SQ11SaARG	1	1	16	ON827439	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq103SaARG	1	1	16	ON827446	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq104SaARG	1	1	16	ON827445	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq106SaARG	1	1	16	ON827444	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq107SaARG	1	1	16	ON827443	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	SQ110SaARG	1	1	16	ON827442	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	SQ116SaARG	1	1	16	ON827440	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	SQ111SaARG	1	1	16	ON827441	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq66SaARG	1	1	16	ON827430	this study
<i>Squalus acanthias</i>	Patagonia - Argentina	Sq70SaARG	1	1	16	ON827429	this study
<i>Squalus acanthias</i>	Argentina	EU074600SaARG	1	1	17	EU074600	Mabragana et al. [31]
<i>Squalus acanthias</i>	Massachusetts, USA	KC015928SaUSA	1	1	17	KC015928	Mccusker et al. [51]
<i>Squalus acanthias</i>	North Sea	KJ205207SaNsea	1	1	17	KJ205207	Knebelsberger et al. [52]
<i>Squalus acanthias</i>	North Sea	KJ205209SaNsea	1	1	17	KJ205209	Knebelsberger et al. [52]
<i>Squalus acanthias</i>	Tasmania - Australia	DQ108279SaAUS	1	1	17	DQ108279	Ward et al. [40]
<i>Squalus acanthias</i>	Tasmania - Australia	DQ108280SaAUS	1	1	17	DQ108280	Ward et al. [40]
<i>Squalus acanthias</i>	Tasmania - Australia	DQ108281SaAUS	1	1	17	DQ108281	Ward et al. [40]
<i>Squalus acanthias</i>	Tasmania - Australia	DQ108282SaAUS	1	1	17	DQ108282	Ward et al. [40]
<i>Squalus acanthias</i>	Argentina	EU074601SaARG	1	1	17	EU074601	Mabragana et al. [31]
<i>Squalus acanthias</i>	Uruguay	EU074602SaURY	1	1	17	EU074602	Mabragana et al. [31]
<i>Squalus acanthias</i>	Argentina	EU074603SaARG	1	1	17	EU074603	Mabragana et al. [31]

<i>Squalus acanthias</i>	Argentina	EU074604SaARG	1	1	17	EU074604	Mabragana et al. [31]
<i>Squalus acanthias</i>	New Brunswick - Canada	KC015926SaCAN	1	1	17	KC015926	Mccusker et al. [51]
<i>Squalus acanthias</i>	New Brunswick - Canada	KC015930SaCAN	1	1	17	KC015930	Mccusker et al. [51]
<i>Squalus acanthias</i>	North Sea	KJ205206SaNsea	1	1	17	KJ205206	Knebelberger et al. [52]
<i>Squalus acanthias</i>	Maine - USA	MG299079SaUSA	1	1	17	MG299079	Landry(Unpublished)
<i>Squalus acanthias</i>	Argentina	EU074607SaARG	1	1	18	EU074607	Mabragana et al. [31]
<i>Squalus acanthias</i>	Tasmania - Australia	DQ108267SaAUS	1	1	18	DQ108267	Ward et al. [40]
<i>Squalus acanthias</i>	United Kingdom	EF539281SaGBR	1	1	18	EF539281	Ward et al. [27]
<i>Squalus acanthias</i>	Chile	EF539285SaCHL	1	1	18	EF539285	Ward et al. [27]
<i>Squalus acanthias</i>	United Kingdom	EF539278SaGBR	1	1	18	EF539278	Ward et al. [27]
<i>Squalus acanthias</i>	United Kingdom	EF539280SaGBR	1	1	18	EF539280	Ward et al. [27]
<i>Squalus acanthias</i>	United Kingdom	EF539279SaGBR	1	1	18	EF539279	Ward et al. [27]
<i>Squalus acanthias</i>	Chile	EF539286SaCHL	1	1	18	EF539286	Ward et al. [27]
<i>Squalus acanthias</i>	Chile	EF539284SaCHL	1	1	18	EF539284	Ward et al. [27]
<i>Squalus acanthias</i>	Chile	EF539283SaCHL	1	1	18	EF539283	Ward et al. [27]
<i>Squalus acanthias</i>	Chile	EF539282SaCHL	1	1	18	EF539282	Ward et al. [27]
<i>Squalus suckleyi</i>	British Columbia - Canada	FJ165375SsCAN	1	2	19	FJ165375	Steinke et al. [47]
<i>Squalus suckleyi</i>	British Columbia - Canada	FJ165376SsCAN	1	2	19	FJ165376	Steinke et al. [47]
<i>Squalus suckleyi</i>	British Columbia - Canada	FJ165374SsCAN	1	2	19	FJ165374	Steinke et al. [47]
<i>Squalus suckleyi</i>	British Columbia - Canada	FJ165373SsCAN	1	2	19	FJ165373	Steinke et al. [47]
<i>Squalus suckleyi</i>	British Columbia - Canada	FJ165371SsCAN	1	2	19	FJ165371	Steinke et al. [47]
<i>Squalus suckleyi</i>	British Columbia - Canada	FJ165369SsCAN	1	2	19	FJ165369	Steinke et al. [47]
<i>Squalus suckleyi</i>	British Columbia - Canada	FJ165368SsCAN	1	2	19	FJ165368	Steinke et al. [47]
<i>Squalus suckleyi</i>	USA	EF539273SsUSA	1	2	19	EF539273	Ward et al. [27]
<i>Squalus suckleyi</i>	USA	EF539274SsUSA	1	2	19	EF539274	Ward et al. [27]
<i>Squalus suckleyi</i>	USA	EF539277SsUSA	1	2	19	EF539277	Ward et al. [27]
<i>Squalus suckleyi</i>	Tohoku-chiho - Japan	JF952866SsJPN	1	2	19	JF952866	Zhang et al. [29]
<i>Squalus suckleyi</i>	British Columbia - Canada	FJ165372SsCAN	1	2	19	FJ165372	Steinke et al. [47]
<i>Squalus suckleyi</i>	British Columbia - Canada	FJ165370SsCAN	1	2	19	FJ165370	Steinke et al. [47]
<i>Squalus suckleyi</i>	USA	EF539275SsUSA	1	2	19	EF539275	Ward et al. [27]
<i>Squalus suckleyi</i>	USA	EF539276SsUSA	1	2	19	EF539276	Ward et al. [27]

