Additional file 1 Check list of records of third-stage larvae of *Pseudoterranova* spp. in fishes from South America. Abbreviations: Bc, body cavity; Li, liver; MA, host muscles analysed for parasites; MH, microhabitat; Me, mesenteries; MS, mean number of sealworms; Mu, muscle; N.S., not specified; NI, number of infected hosts; TL, total length ± standard deviation (or range).

Order/Family	Species	Locality*	*n*	TL (cm)	MA	MH	NI	MS	References
Anguilliformes									
Congridae	*Conger orbignianus*	North Argentina[a]	50	–	Yes	Me	1	1	[1]
Atheriniformes									
Atherinopsidae	*Odontesthes nigricans*	Patagonia, Argentina[a]	125	(16.3–16.6)**	No	Bc	–	–	[2]
	Odontesthes smitti	Patagonia, Argentina[a]	118	(21.7–28.3)**	No	Bc	1	10	[3]
Batrachoidiformes									
Batrachoididae	*Aphos porosus*	Central Chile[b]	8	28.3 ± 1.5	N.S.	–	6	10	[4]
		Central Chile[a]	30	26.8 ± 3.9	Yes	Bc, Me, Mu	24	128	[5]
		South Chile[c]	13	–	Yes	Mu	6	10	[6]
	Porichthys porosissimus	North Argentina[a]	166	(11.5–29.7)	No	Bc	26	39	[7]
Beloniformes									
Belonidae	*Tylosurus acus acus*	Brazil[a]	31	(58.0–105.5)	N.S.	Me	3	4	[8]
Gadiformes									
Gadidae	*Micromesistius australis*	South Chile[a]	61	(26.0–57.0)	N.S.	–	3	4	[9]
Macrouridae	*Nezumia pulchella*	North Chile[a]	167	(26.6–32.1)**	No	–	2	2	[10]
		Central Chile[a]	50	31.1 ± 2.3	No	–	1	1	[10]
Merlucciidae	*Macruronus magellanicus*	South Chile[c]	288	–	Yes	Mu	9	29	[6]
		Central Chile[b]	3	134.3 ± 55.7	N.S.	–	1	1	[4]
		South Chile[b]	4	(22.0–28.0)	Yes	Mu	1	1	[11]
	Merluccius australis	South Chile[b]	685	(45.0–95.0)	No	Bc, Me, Mu	76	99	[12]
	Merluccius gayi gayi	Central Chile[b]	1051	(42.7–46.6)**	No	Me	211	897	[13]
		South Chile[b]	121	45.4 ± 10.1	No	Me	42	213	[13]
		South Chile[c]	34	–	Yes	Mu	19	71	[6]
		South Chile[b]	17	(36.0–50.0)	Yes	Mu	4	8	[11]
	Merluccius hubbsi	Patagonia, Argentina[a]	278	(38.7–40.4)**	No	Me	2	2	[14]
		Patagonia, Argentina[a]	42	(57.0–78.0)	Yes	Mu	4	8	[15]
Mugiliformes									
Mugilidae	*Mugil cephalus*	Central Chile[c]	107	(15.5–46.0)	No	Hi	1	1	[16]

Ophidiiformes									
Ophidiidae	*Genypertus* sp.	South Chile[c]	1	60	N.S.	Li, Me	–	–	[17]
	Genypterus blacodes	Argentina[b]	101	(24.0–127.0)	No	Me	4	20	[18]
		South Chile[c]	5	–	Yes	Mu	2	36	[6]
	Genypterus brasiliensis	Patagonia, Argentina[b]	31	(40.0–75.0)	No	Me	6	8	[18]***
		Brazil[a]	55	29.0–70.0	N.S.	Me	3	5	[19]***
		Brazil[b]	74	(41.5-93)	Yes	Me	4	5	[20]***
		Brazil[a]	74	(41.5-93)	Yes	Me	8	22	[20]***
	Genypterus chilensis	Central Chile[c]	80	(43.6-73.5)	Yes	Li, Mu	5	22	[21]
		South Chile[c]	7	–	Yes	Mu	4	27	[6]
		South Chile[b]	18	(41.0–55.0)	Yes	Mu	9	12	[11]
	Raneya brasiliensis	Patagonia, Argentina[a]	107	24.5 ± 1.7	Yes	–	1	1	[22]
Perciformes									
Blenniidae	*Hypsoblennius sordidus*	South Chile[a]	12	(4.8–10.2)	No	Mu	1	1	[23]
Carangidae	*Caranx hippos*	Brazil[a]	60	(27.0–64.0)	N.S.	–	6	9	[24]
	Caranx latus	Brazil[a]	55	(26.0–43.0)	N.S.	–	18	401	[24]
	Trachurus murphyi	North Chile[b]	600	36.3 ± 2.9	No	–	2	3	[25]
		Central Chile[b]	600	33.9 ± 2.3	No	–	17	28	[25]
		South Chile[c]	35	–	Yes	Mu	10	60	[6]
		South Chile[b]	16	(34.0–47.0)	Yes	Mu	5	12	[11]
		Chile–Oceanic[b]	183	43.2 ± 2.1	No	–	3	3	[25]
Pinguipedidae	*Pinguipes brasilianus*	Patagonia, Argentina[a]	102	(32.7–37.1)**	No	Me	5	7	[26]
	Pseudopercis semifasciata	North Argentina[a]	50	(67.5–71.2)**	No	Me	41	547	[27]
		Patagonia, Argentina[a]	50	67.2 ± 7.2	No	Me	38	220	[27]
Pomatomidae	*Pomatomus saltatrix*	Brazil[c]	55	(32.0–52.0)	N.S.	–	8	33	[28]
Priacanthidae	*Priacanthus arenatus*	Brazil[a]	58	(14.0–54.0)	N.S.	–	5	23	[29]
Sciaenidae	*Cilus gilbert*	Central Chile[d]	57	(51.6–75.5)	No	–	36	153	[30]
		Central Chile[d]	29	(32.5–75.0)	No	–	23	139	[30]
		South Chile[c]	11	–	Yes	Mu	6	15	[6]
	Micropogonias furnieri	Brazil[a]	100	(10.0–66.0)	N.S.	Me	2	3	[31]
Scombridae	*Scomber japonicus*	North Argentina[a]	173	(29.7–53.4)	No	Me	13	4	[32]
		Brazil[c]	50	(20.0–25.0)	No	Me	5	–	[33]
Sparidae	*Pagrus pagrus*	Brazil[a]	90	(16.0–50.0)	N.S.	Me	6	15	[34]

Trichiuridae	*Trichiurus lepturus*	Brazil[a]	55	(108.0–148.0)	N.S.	–	21	46	[35]
Pleuronectiformes									
Paralichthyidae	*Hippoglossina macrops*	South Chile[c]	21	–	Yes	Mu	3	4	[6]
	Hippoglossina montemaris	South Chile[c]	8	–	Yes	Mu	1	1	[6]
	Paralichthys adspersus	North Chile[b]	179	(31.2–34.2)	Yes	Bc, Mu	16	47	[36]
	Paralichthys isosceles	North Argentina[a]	51	28.0 ± 2.1	Yes	Me, Mu	1	1	[37]
	Paralichthys microps	South Chile[b]	10	(26.0–38.0)	Yes	Mu	7	14	[11]
	Paralichthys patagonicus	North Argentina[a]	51	35.2 ± 2.6	Yes	Me, Mu	9	13	[37]
	Xystreurys rasile	North Argentina[a]	48	29.3 ± 2.6	Yes	Me. Mu	1	3	[37]
Scorpaeniformes									
Normanichthyidae	*Normanichthys crockeri*	South Chile[a]	11	9.0 ± 0.2	No	Mu	1	1	[23]
Sebastidae	*Helicolenus lengerichi*	Central Chile[a]	30	28.1 ± 4.5	No	–	1	1	[38]
		Central Chile[a]	56	30.9 ± 2.3	No	–	2	2	[39]
	Sebastes capensis	Central Chile[a]	42	(27.5–27.8)**	No	–	10	13	[39]

*Specific identification of sealworms larvae: [a]*Pseudoterranova* sp.; [b]*P. decipiens*; [c]*Phocanema* sp.; [d]*P. cattani.*

**Range calculated from host total length means.

***Fish identified as *Genypterus brasiliensis* by the authors.

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