

TABLE S1 | Sequences of COI used in the analysis of *Jenynsia* and respective vouchers. MG ZV-P, Museo Provincial de Ciencias Naturales “Dr. Ángel Gallardo”, Rosario, Argentina; UFRGS, Laboratório de Ictiologia, Departamento de Zoologia, Universidade Federal do Rio Grande do Sul, Porto Alegre; UFRJ, Universidade Federal do Rio de Janeiro, Rio de Janeiro; UNMDP-T, Universidad Nacional de Mar del Plata, Mar del Plata, Argentina; ZVC-P, Colección de Zoología Vertebrados (fishes) de la Facultad de Ciencias, Universidad de la República, Montevideo, Uruguay.

Species	Voucher	GenBank accession number
<i>Jenynsia aurea</i> - paratype	UFRGS 12586, TEC 1262A	PX169114
<i>Jenynsia aurea</i> - paratype	UFRGS 12586, TEC 1262B	PX169115
<i>Jenynsia aurea</i> - paratype	UFRGS 16534, TEC 2867A	PX169116
<i>Jenynsia aurea</i> - paratype	UFRGS 16534, TEC 2867B	PX169117
<i>Jenynsia aurea</i> - paratype	UFRGS 17821, TEC 3502B	PX169120
<i>Jenynsia aurea</i> - paratype	UFRGS 17821, TEC 3502E	PX169121
<i>Jenynsia aurea</i> - paratype	UFRGS 18439, TEC 3832	PX169122
<i>Jenynsia aurea</i> - paratype	UFRGS 18442, TEC 3835	PX169123
<i>Jenynsia aurea</i> - paratype	UFRGS 18466, TEC 3859A	PX169124
<i>Jenynsia aurea</i> - paratype	UFRGS 18466, TEC 3859B	PX169125
<i>Jenynsia aurea</i> - paratype	UFRGS 21403, TEC 6427A	PX169128
<i>Jenynsia aurea</i> - paratype	UFRGS 21403, TEC 6427B	PX169129
<i>Jenynsia aurea</i> - paratype	UFRGS 21403, TEC 6427C	PX169126
<i>Jenynsia aurea</i> - paratype	UFRGS 21403, TEC 6427G	PX169127
<i>Jenynsia darwini</i>	UFRJ 10034.1	KY031558.1 COX1
<i>Jenynsia darwini</i>	UFRJ 10034.2	KY031559.1 COX1
<i>Jenynsia darwini</i>	UFRJ 10036.1	KY031560.1 COX1
<i>Jenynsia darwini</i>	UFRJ 10038.1	KY031561.1 COX1
<i>Jenynsia darwini</i>	UFRJ 10038.2	KY031562.1 COX1
<i>Jenynsia darwini</i>	UFRJ 10040.1	KY031563.1 COX1
<i>Jenynsia darwini</i>	UFRJ 10040.2	KY031564.1 COX1
<i>Jenynsia darwini</i>	UFRJ 10042.1	KY031565.1 COX1
<i>Jenynsia darwini</i>	UFRJ 10042.2	KY031566.1 COX1
<i>Jenynsia darwini</i>	UFRJ 10044.1	KY031567.1 COX1
<i>Jenynsia eirmostigma</i>	UFRGS 14620, TEC 552	PZ028817
<i>Jenynsia eirmostigma</i>	UFRGS 17011, TEC 3069	PZ028819
<i>Jenynsia eirmostigma</i>	UFRGS 17189, TEC 3194	PZ028820
<i>Jenynsia eirmostigma</i>	UFRGS 22071, TEC 6972	PZ028818
<i>Jenynsia lineata</i>	MG ZV-P 300	KU289018.1 COI
<i>Jenynsia lineata</i>	UFRJ 10046.1	KY031541.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10048.1	KY031542.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10048.2	KY031543.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10050.1	KY031544.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10052.1	KY031545.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10052.2	KY031546.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10181.1	KY031547.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10181.2	KY031548.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10181.3	KY031549.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10181.4	KY031550.1 COX1



TABLE S1 | (Continued)

Species	Voucher	GenBank accession number
<i>Jenynsia lineata</i>	UFRJ 10213.1	KY031551.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10213.2	KY031552.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10213.3	KY031553.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10623.1	KY031554.1 COX1
<i>Jenynsia lineata</i>	UFRJ 10623.2	KY031555.1 COX1
<i>Jenynsia lineata</i>	UFRJ 9968.1	KY031539.1 COX1
<i>Jenynsia lineata</i>	UFRJ 9968.2	KY031540.1 COX1
<i>Jenynsia lineata</i>	UNMDP-T 0300	JX111777.1 COI
<i>Jenynsia lineata</i>	UNMDP-T 0301	JX111772.1 COI
<i>Jenynsia lineata</i>	UNMDP-T 0302	JX111778.1 COI
<i>Jenynsia lineata</i>	UNMDP-T 0303	JX111774.1 COI
<i>Jenynsia lineata</i>	UNMDP-T 0341	JX111773.1 COI
<i>Jenynsia lineata</i>	UNMDP-T 0379	JX111775.1 COI
<i>Jenynsia lineata</i>	UNMDP-T 0400	JX111776.1 COI
<i>Jenynsia lineata</i>	UNMDP-T 0405	JX111779.1 COI
<i>Jenynsia lineata</i>	ZVCP 12739	KY031556.1 COX1
<i>Jenynsia lineata</i>	ZVCP 12812	KY031557.1 COX1
<i>Jenynsia lineata</i>	ZVCP 13636	KY645968.1 COX1
<i>Jenynsia sanctaecatariinae</i>	UFRJ 10564	KY031538.1 COX1
<i>Jenynsia unitaenia</i>	UFRGS 12539, TEC 1241A	PZ036377
<i>Jenynsia unitaenia</i>	UFRGS 12539, TEC 1241B	PZ036378
<i>Jenynsia unitaenia</i>	UFRGS 12594, TEC 1294	PZ036379
<i>Jenynsia unitaenia</i>	UFRGS 12716, TEC 1452A	PZ036380
<i>Jenynsia unitaenia</i>	UFRGS 12716, TEC 1452C	PZ036381
<i>Jenynsia unitaenia</i>	UFRGS 14768, TEC 857A	PZ036382
<i>Jenynsia unitaenia</i>	UFRGS 14768, TEC 857B	PZ036383
<i>Jenynsia unitaenia</i>	UFRGS 16257, TEC 2716	PZ036384
<i>Jenynsia unitaenia</i>	UFRGS 16266, TEC 2725	PZ036385
<i>Jenynsia unitaenia</i>	UFRGS 16557, TEC 2889A	PZ036386
<i>Jenynsia unitaenia</i>	UFRGS 16564, TEC 2896F	PZ036387
<i>Jenynsia unitaenia</i>	UFRGS 16566, TEC 2898A	PZ036388
<i>Jenynsia unitaenia</i>	UFRGS 16576, TEC 2908	PZ036389
<i>Jenynsia unitaenia</i>	UFRJ 10190	KY031537.1 MAM



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