

S2 Table. Genetic similarity (%) between the presumed transcribed region of 5S rDNA from several anurans and the more conserved region of the PcP190 sequences of *Physalaemus*, *Leptodactylus*, *Crossodactylus* and *Pseudis*. Numbers in parentheses indicate the standard error. Only complete monomers sequences from PcP190 were used in this analysis. Because no complete monomer of PcP-6 was achieved, this kind of sequence was not included.

PcP190 sequences 5S rDNA sequences	<i>Physalaemus</i> spp. ^a	<i>Leptodactylus</i> <i>latrans</i> ^b	<i>Crossodactylus</i> <i>gaudichaudii</i> ^c	PcP-1	PcP-2	PcP-3	PcP-4	PcP-5	PcP-7a	PcP-7b
<i>Lithobates pippiens</i> ^d	70.08 (±3.81)	68.16 (±4.15)	67.80 (±3.99)	68.91 (±4.20)	61.45 (±4.00)	68.33 (±4.14)	68.26 (±4.03)	69.75 (±4.11)	65.74 (±4.20)	67.07 (±3.95)
<i>Lithobates catesbeianus</i> ^e	70.13 (±3.84)	68.16 (±4.18)	67.80 (±4.05)	68.91 (±4.22)	61.66 (±4.03)	68.33 (±4.17)	67.95 (±4.14)	69.75 (±4.17)	65.91 (±4.25)	67.07 (±3.98)
<i>Pelophylax lessonae</i> ^f	68.42 (±3.94)	65.45 (±4.33)	67.52 (±4.04)	66.67 (±4.36)	59.87 (±4.17)	69.49 (±4.07)	66.13 (±4.17)	66.67 (±4.30)	62.26 (±4.30)	64.86 (±3.99)
<i>Pelophylax ridibundus</i> ^g	68.42 (±3.94)	65.45 (±4.33)	67.52 (±4.04)	66.67 (±4.36)	59.87 (±4.17)	69.49 (±4.07)	66.13 (±4.17)	66.67 (±4.30)	62.26 (±4.33)	64.86 (±3.99)
<i>Anaxyrus americanus</i> ^h	70.03 (±3.84)	67.43 (±4.21)	67.80 (±4.02)	68.91 (±4.23)	62.29 (±4.01)	69.17 (±4.12)	68.28 (±4.08)	68.91 (±4.18)	65.74 (±4.33)	66.73 (±3.91)
<i>Gastrotheca riobambae</i> ⁱ	70.27 (±3.81)	67.43 (±4.21)	67.80 (±4.00)	70.59 (±4.16)	64.04 (±3.96)	70.83 (±4.03)	68.28 (±4.02)	68.91 (±4.14)	67.48 (±4.31)	68.36 (±3.85)
<i>Pseudis tocantins</i> 5S-I ^j	61.10 (±5.28)	56.29 (±5.75)	58.67 (±5.30)	59.87 (±5.52)	56.56 (±5.53)	58.55 (±5.52)	59.65 (±5.47)	62.50 (±5.55)	62.76 (±4.27)	60.13 (±4.07)
<i>Pseudis tocantins</i> 5S-II ^k	68.03 (±4.81)	64.76 (±5.14)	65.67 (±4.83)	64.47 (±5.34)	64.39 (±4.97)	72.37 (±4.94)	66.97 (±4.92)	67.11 (±5.10)	66.55 (±4.25)	65.91 (±3.93)
<i>Engystomops petersi</i> 5S-I ^l	67.29 (±3.86)	64.89 (±4.21)	65.25 (±4.04)	68.07 (±4.26)	62.98 (±4.01)	67.50 (±4.17)	65.57 (±4.08)	66.39 (±4.19)	65.97 (±4.19)	66.54 (±3.92)
<i>Engystomops freibergeri</i> 5S-III ^m	67.72 (±3.84)	65.85 (±4.15)	65.73 (±4.04)	67.98 (±4.24)	63.48 (±3.97)	67.41 (±4.14)	65.76 (±4.05)	66.29 (±4.16)	66.46 (±4.20)	66.57 (±3.96)
<i>Physalaemus cuvieri</i> 5S-I ⁿ	68.52 (±4.83)	65.19 (±5.20)	65.33 (±4.88)	70.07 (±5.21)	63.92 (±5.05)	71.38 (±4.99)	65.73 (±4.94)	70.07 (±5.13)	67.30 (±4.17)	66.41 (±4.00)
<i>Engystomops petersi</i> 5S-II ^o	65.24 (±3.93)	64.33 (±4.23)	63.78 (±4.10)	62.82 (±4.31)	61.66 (±4.08)	64.25 (±4.33)	64.82 (±4.17)	62.82 (±4.28)	63.41 (±4.14)	63.74 (±4.05)
<i>Engystomops freibergeri</i> 5S-II ^p	66.59 (±3.90)	65.89 (±4.20)	65.07 (±4.07)	64.29 (±4.31)	61.76 (±4.09)	65.42 (±4.29)	65.46 (±4.16)	64.29 (±4.26)	63.57 (±4.20)	64.42 (±3.98)
<i>Physalaemus cuvieri</i> 5S-II ^q	69.06 (±4.62)	66.00 (±5.13)	66.00 (±4.88)	66.45 (±5.26)	58.99 (±5.05)	70.39 (±4.84)	66.00 (±4.89)	69.08 (±4.94)	62.57 (±4.28)	65.03 (±3.89)
<i>Xenopus laevis som</i> ^r	70.15 (±3.84)	68.16 (±4.21)	68.64 (±4.00)	68.91 (±4.21)	62.50 (±4.01)	68.33 (±4.17)	68.28 (±4.09)	69.75 (±4.13)	66.61 (±4.32)	67.31 (±3.93)
<i>Xenopus laevis ooc</i> ^s	69.58 (±3.77)	68.19 (±4.09)	68.67 (±3.92)	68.58 (±4.08)	62.40 (±3.91)	67.17 (±4.05)	68.31 (±4.00)	69.56 (±4.01)	66.18 (±4.23)	66.71 (±3.87)
<i>Xenopus tropicalis som</i> ^t	69.40 (±3.86)	68.04 (±4.17)	67.37 (±4.05)	69.75 (±4.23)	63.17 (±4.03)	69.17 (±4.16)	67.68 (±4.07)	68.91 (±4.17)	67.48 (±4.27)	68.00 (±4.02)
<i>Xenopus tropicalis ooc</i> ^u	69.40 (±3.81)	66.59 (±4.23)	66.95 (±4.01)	69.75 (±4.15)	61.90 (±4.02)	69.17 (±4.08)	67.37 (±4.06)	68.91 (±4.13)	65.74 (±4.15)	67.77 (±3.94)
<i>Xenopus borealis ooc</i> ^v	69.28 (±3.71)	68.16 (±4.06)	67.80 (±3.90)	68.07 (±4.09)	61.21 (±3.96)	67.50 (±4.03)	67.37 (±4.01)	68.91 (±4.01)	64.00 (±4.21)	65.38 (±4.03)

^a*Physalaemus* spp. PcP190 sequences: JF281121.1, JF281117.1, JF281124.1, JF281119.1, KM361675.1 - KM361706.1; ^b*Leptodactylus latrans* PcP190 sequences: KM361718.1 - KM361724.1; ^c*Crossodactylus gaudichaudii* PcP190 sequences: KM361725.1 and KM361726.1; ^d*Lithobates pippiens* 5S rRNA gene: X58368.1; ^e*Lithobates catesbeianus* 5S rRNA gene: X58367.1; ^f*Pelophylax lessonae* 5S rRNA gene: FJ572051.1; ^g*Pelophylax ridibundus*

5S rRNA gene: FJ572052.1; ^h*Anaxytus americanus* 5S rRNA gene: X58365.1 (as *Bufo americanus*); ⁱ*Gastrotheca riobambae* 5S rRNA gene: M74438.1; ^j*Pseudis tocanins* type I 5S rRNA gene: present work; ^k*Pseudis tocanins* type II 5S rRNA gene: present work; ^l*Engystomops petersi* type I 5S rRNA gene: JF325859.1, JF325866.1 and JF325867.1; ^m*Engystomops freibergeri* type I 5S rRNA gene: JF325868.1 - JF325870.1; ⁿ*Physalaemus cuvieri* type I 5S rRNA gene: JF281127.2, JF281128.2, JF281130.2 and JF281131.2; ^o*Engystomops petersi* type II 5S rRNA gene: JF325847.1, JF325848.1 and JF325858.1; ^p*Engystomops freibergeri* type II 5S rRNA gene: JF325844.1 and JF325845.1; ^q*Physalaemus cuvieri* type II 5S rRNA gene: JF281132.2 and JF281134.2; ^r*Xenopus laevis* somatic 5S rRNA gene: M35055.1; ^s*Xenopus laevis* oocyte-specific 5S rRNA gene: J01012.1, J01898.1, K02695.1, M10027.1, M10676.1 and M63899.1; ^t*Xenopus tropicalis* somatic 5S rRNA gene: NR 033271.1; ^u*Xenopus tropicalis* oocyte-specific 5S rRNA gene: X12624.1; ^v*Xenopus borealis* 5S rRNA gene: V01425.1 and K01537.1.