

Supplementary Material 1. Alignment used for the phylogenetic analysis.

>KU898904_Podarcis_sicula

MACAQTGSGKTA AFLLSILSQIYTDGPGDALRAMK----
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GCHLLVATPGRLVDMMERGKIGLDFCKYLVLDEADRMLDMGFEPQIRRIVEQDTMPPKG
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EYIFLAVGRVGSTSENITQKVWVVEESDKRSFLLDLLNATGKDS--
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RG

>KFZ65750.1_Podiceps_cristatus

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GCHLLVATPGRLVDMMERGKIGLDFCKYLVLDEADRMLDMGFEPQIRRIVEQDTMPPKG
VRHTMMFSATFPKEIQMLARDFLD-
EYIFLAVGRVGSTSENITQKVWVVEELDKRSFLLDLLNATGKDS--
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RG

>KFV74275.1_Struthio_camelus_australis

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KGVRHTMMFSATFPKEIQMLARDFLD-
EYIFLAVGRVGSTSENITQKVWVVEESDKRSFLLDLLNATGKDS--
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RG

>NP_001025971.1_Gallus_gallus

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VRHTMMFSATFPKEIQMLARDFLD-
EYIFLAVGRVGSTSENITQKVWVVEELDKRSFLLDLLNATGKDS--
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RG

>NP_034158.1_Mus_musculus

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VRHTMMFSATFPKEIQMLARDFLD-
EYIFLAVGRVGSTSENITQKVWVVEEIDKRSFLLDLLNATGKDS--
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VRHTMMFSATFPKEIQMLARDFLD-
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>XP_013222176.1_Columba_livia

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VRHTMMFSATFPKEIQMLARDFLD-
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>XP_018411832.1_Nanorana_parkeri

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EYIFLAVGRVGSTSENITQKVWVVEEMDKRSFLLDLLNATGKDS--
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RG

>NP_989196.1_Xenopus_tropicalis

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GCHLLVATPGRLVDMMERGKIGLDFCNLYLVLEADRMLDMGFEPQIRRIVEQDTMPPKG
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>NP_001080283.1_Xenopus_laevis

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RG

>CAH61467.1_Pelophylax_lessonae

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VRQTMMFSATFPKEIQILARDFLE-
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RG

>XP_005889498.1_Bos_mutus

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RG

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VRHTMMFSATFPKEIQMLARDFLD-
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RG

>XP_008063566.1_Carlito_syricha

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VRHTMMFSATFPKEIQMLARDFLD-
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>XP_014584362.1_Equus_caballus

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>XP_004566336.1_Maylandia_zebra

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PKGIRRTMMFSATFPKEIQILARDFLE-
DYIFLAVGRVGSTSENITQKVWVVEETDKRSFLLDLLNATGKDS--
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RG

>XP_003449556.1_Oreochromis_niloticus

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RG

>XP_013769397.1_Pundamilia_nyererei

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DYIFLAVGRVGSTSENITQKVWVVEETDKRSFLLDLLNATGKDS--
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>XP_011604761.1_Takifugu_rubripes

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DYIFLAVGRVGSTSENITQKVWVVEEVDKRSFLLDLLNATGKDS--
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>XP_005168849.1_Danio_rerio

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DYIFLAVGRVGSTSENITQKVWVVEENDKRSFLLDLLNATGKDS--
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RG

>XP_007426566.1_Python_bivittatus

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EYIFLAVGRVGSTSENITQKVWVVEESDKRSFLLDLLNATGKDS--
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>XP_015273966.1_Gekko_japonicus

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VRQTMMFSATFPKEIQMLARDFLE-

EYIFLAVGRVGSTSENITQKVWVVEESDKRSFLLDLLNATGKDS--
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RG

>XP_014466688.1_Alligator_mississippiensis

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VRQTMMSATFPKEIQMLARDFLD-
EYIFLAVGRVGSTSENITQKVWVVEEMDKRSFLLDLLNATGKDS--
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RG

>XP_013929400.1_Thamnophis_sirtalis

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>XP_008105613.1_Anolis_carolinensis

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VRQTMMSATFPKEIQMLARDFLE-
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RG

>XP_013921907.1_Thamnophis_sirtalis

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>AIG59993.1_Podarcis_sicula

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FSATFPDEIQRLAGEFLKTEYLFVVVGQVGGACSDVQQTILQVTQYDKRDKLVEILNDIGD
K---
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RG

>XP_015278700.1_Gekko_japonicus

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RG

>XP_008101058.2_Anolis_carolinensis

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KE---

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G

>XP_014449539.1_Alligator_mississippiensis

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>KFZ54820.1_Podiceps_cristatus

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>KFP10640.1_Egretta_garzetta

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GHE---

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>KFV83500.1_Struthio_camelus_australis

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>NP_990039.2_Gallus_gallus

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