

**Supplementary table 1.** Genome size and time of origin in 29 species of salamanders. The data for genome size are from Animal genome size database [Gregory, 2015]; the time of origin is from Marjanovic and Laurin [2007].

Species	Genome size (pg/N)	Myllion years ago
<i>Andrias japonicus</i>	46.5	28
<i>Cryptobranchus alleganiensis</i>	55	60
<i>Siren lacertina/intermedia</i>	55.35	48
<i>Pseudobranchius striatus</i>	49.5	51
<i>Rhyacotriton</i>	71.2	77
<i>Hynobius nebulosos</i>	19.2	15.97
<i>Onicodactylus</i>	47.5	20
<i>Amphiuma means</i>	75	62
<i>Aneides flavipunctatus</i>	42.9	23
<i>Bolitoglossa subpalmata</i>	61.5	43
<i>Desmognathus (X)</i>	17.7	30
<i>Ensatina eschscholzii</i>	41.5	34
<i>Eurycea longicaudata</i>	28.6	40
<i>Plethodon glutinosus</i>	28	24
<i>Necturus maculosus</i>	80.5	62
<i>Proteus anguinus</i>	48.8	16
<i>Dicamptodon</i>	56.8	62
<i>Ambystoma opacum</i>	30.6	34
<i>Ambystoma tigrinum</i>	27.6	34
<i>Chioglossa lusitanica</i>	29.22	28
<i>Cynops pirrhogaster</i>	43.06	14
<i>Notophtalmus viridescens</i>	35	16
<i>Pleurodeles waltl</i>	25.6	14
<i>Salamandra salamandra</i>	35.2	16
<i>Salamandrina terdigitata</i>	20.6	23
<i>Taricha torosa</i>	28	28
<i>Triturus cristatus</i>	27.8	23
<i>Tylototriton</i>	25	55