**SI Table 2** Animal species sampled for ADF/CFL sequences and their divergence times from a common ancestor with H. sapiens

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| --- | --- | --- | --- |
| **Species** | **Informative Classification** | **Estimated Divergence Times** | **Ascension #** |
| *Monosiga brevicolis* | Protist, Choanoflagellate | 1400 mya | XP\_001746593 |
| *Caenorhabditis elegans* | Invertebrate, Protostome, Nematoda | 950 mya | NP\_503425 |
| *Drosophila melanogaster* | Invertebrate, Protostome, Arthropoda | 950 mya | NP\_477034 |
| *Ciona intestinalis* (sea squirt) | Invertebrate, deuterostome, Tunicata | 750 mya | XP\_002131354 |
| *Branchiostoma floridae* (lancelet) | Invertebrate, deuterostome, Cephalochordata | 650 mya | XP\_002614024 |
| *Salmo salar* (Atlantic salmon) | Vertebrate, Actinopterygii | 450 mya | NP\_001133173, ACN12515, ACM08559 |
| *Danio rerio* (zebrafish) | Vertebrate, Actinopterygii | 450 mya | NP\_998804, NP\_991263, NP\_998806 |
| *Xenopus tropicalis* (Western clawed frog) | Vertebrate, Amphibia | 360 mya | NP\_998878, NP\_001011156 |
| *Gallus gallus* (chicken) | Vertebrate, Aves, Phasianidae | 310 mya | NP\_990859, NP\_001004406 |
| *Sus scrofa* (domestic pig) | Vertebrate, Mammalia, Suidae | 66 mya | NP\_001004043, NP\_001020386, NP\_001004031 |
| *Mus musculus* (domestic house mouse) | Vertebrate, Mammalia, Muridae | 66 mya | NP\_031713, NP\_031714, NP\_062745 |
| *Homo sapiens* | Vertebrate, Mammalia, Hominidae | 0 | NP\_005498, NP\_068733, NP\_006861 |

Estimates of divergence times among species were extrapolated from the following references: DeVries et al., 2006; King et al., 2008.