

Table S1: List of species used for divergence time analysis

Class or subclass family	Species
Insecta	
Drosophilidae	<i>Drosophila melanogaster</i> <i>Drosophila simulans</i>
Ascidiacea	
Cionidae	<i>Ciona intestinalis</i>
Actinopterygii	
Tetraodontidae	<i>Takifugu rubripes</i>
Adrianichthyidae	<i>Oryzias latipes</i>
Cyprinidae	<i>Danio rerio</i>
Sarcopterygii	
Pipidae	<i>Xenopus tropicalis</i>
Phasianidae	<i>Gallus gallus</i>
Didelphidae	<i>Monodelphis domestica</i>
Hominidae	<i>Homo sapiens</i>
Elasmobranchii	
Squalidae	<i>Squalus acanthias</i>
Hemiscylliidae	<i>Chiloscyllium plagiosum</i>
Rajidae	<i>Leucoraja erinacea</i>
Torpedinidae	<i>Torpedo californica</i>
Holocephali	
Callorhynchidae	<i>Callorhynchus callorhynchus</i> <i>Callorhynchus milii</i>