NCBI accession numbers used in this study.

*Verasper variegatus* (LWS: LC209595; RH2-B: LC209601; RH2-C: LC209604; SWS2A: LC209609; SWS2B: LC209612; SWS1: LC209598; RH1: LC209606)

*Verasper moseri* (LWS: AB930175; RH2B: AB930177; RH2C: AB930178; SWS2A: AB930180; SWS2B: AB930181; SWS1: AB930179; RH1: AB930176)

*Paralichthys olivaceus* (LWS: LC209597, RH2-A1; LC209812; RH2-A2: LC209813; RH2-B: LC209603; RH2-C: LC209605; SWS2A: LC209611; SWS2B: LC209614; SWS1: LC209600; RH1: LC209608)

*Hippoglossus hippoglossus* (RH2: AF156263; RH1: AF156265; LWS: AF316498; SWS1: AF156264; SWS2: AF316497).

*Scophthalmus maximus* (LWS: AF385826.1; RH1: MN073188; SWS1: AWO98359.1; SWS2: AWP03347.1; RH2A1: MN073190; RH2A2: MN073191; RH2B1: MN073192; RH2B2: MN073193; RH2C: MN073194)

*Danio rerio* (RH2: NM\_131253, NM\_182891, NM\_182892, and NM\_131254; SWS2: NM\_131192; LWS: NM\_001313715, NM\_001002443; SWS1, BC060894; RH1, NM\_131084)

*Oryzias latipe* (RH1: AB180742; LWS: AB223051 and AB223052; RH2: AB223053, AB223054, and AB223055; SWS2: AB223056 and AB223057; and SWS1: AB223058)

*Maylandia zebra* (SWS2 and LWS: JF262084, SWS1: JF262085, RH2: JF262089, RH1: AY775114)

*Poecilia reticulata* (RH1: LC127191; LWS: AB748984, LC127183, LC127184, LC127185; RH2: DQ234858 and DQ234859; SWS2: JF303638 and DQ234860,SWS1: LC127190,)

*Takifugu rubripes* (RH2: NM\_001033712), *Salmo salar* (RH2: NM\_001123707), *Oncorhynchus mykiss* (RH2: NM\_001124323), *Cyprinus carpio* (RH2: AB110602 and AB110603), *Neoceratodus forsteri* ( RH2: EF526296).

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