

Additional file 5

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R2-1_BMi  VDRVTDIAESGLPNHAGANLLQCEWCDRLCKNKAGLT LHKRACKNNPAVGSSAGNTNDNR
R2-1_MLe  ITRVRTSSNRG-EHSNGVTYPRCE-----QGVAPLDTHGGICDAPPQVTPATETDKQ-
R2-1_PBa  -----HRCPNCRKLCRSGNGLALHMKHC-----AKCYQNGDNR
R2-1_STig MPEATASAH---SSQRGTAMFVCEHCCKEYRSRSGLSGHRRMH-----FAEGETRAV-
R2-1_MBi  -----ESQIG---YVCPDCGRAFRSRSGMSNHRRT-----AAAGAVGGR-
R2-1_HBer -----KSQTG---FPCPDCGRVYRSRSGMSNHRRT-----LAQEGGDDG-
R2-1_CTe  -----KSQTG---FPCPDCGRVYRSRSGMSNHRRT-----LAQEGGDDG-
R2-1_ATu  -----DNSTLNIDRRCGLCGVTFNTKSKLKS-----ILSRSCSDR-
                                     : *

R2-1_BMi  RINTPP---TMRSLFNCEYCNNTGYGTDRLSAHISKKHPEWN-----MI
R2-1_MLe  -----KKCEYCEFTYLKPRQIGTHMRKRHPQEWN-----DI
R2-1_PBa  QEPVKP----R--MECSICGLFFSGQRGVAIHKRKKHPAEWN-----ET
R2-1_STig --PI-----WKCDICQAAFGTKIGLSQHRRQHAEDN-----QR
R2-1_MBi  -----FSCGICSESFLSKAGLAQHTRHRHPVEHN-----IR
R2-1_HBer -----FRCDICSAVFRTKAGLGQHTRRQHPVQHN-----IR
R2-1_CTe  -----FRCDICSAVFRTKAGLGQHTRRQHPVQHN-----IR
R2-1_ATu  -----SACKFCGRSFNTFAGVRQHERRVHPLEYASDLQSVIGKASESVIME
                                     * * : : * : *

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Figure S5: Multiple sequence alignment of R2 ORFs with two ZnF N-terminal architecture: Ctenophora: *Bolinopsis microptera*, *Pleurobrachia bachei*, *Mnemiopsis leidyi* (re-curated, first found Kojima 2016). Chondrichthyes: *Mobula birostris*, *Stegostoma tigrinum*, *Hypanus berthallutzae*. Actinopterygii: *Cynodonichthys tenuis*. R2-1_MLe has one ZnF because of an internal truncation. CXXC residues in the ZnFs are highlighted in green.