

Supplementary Material to: “Dispersion of transposable elements and multigene families: Microstructural variation in *Characidium* (Characiformes: Crenuchidae) genomes”

Table S1 - PCR reaction mixture for the synthesis of probes used in this work.

Probe/ Reaction Mix	Primer Forward/Reverse	Vol (μl)	DNA (ng)	MgCl ₂ (mM)	Primer (μM)	dNTP (mM)	Taq pol* (U/μl)
Rex1	5'- TTCTCCAGTGCCTAACACC-3' 5'- TCCCTCAGCAGAAAGAGTCTGCTC-3' (Volff <i>et al.</i> , 2000)	25	200	1,5	0,2	0,04	1
Rex3	5'-CGGTGAAAAGGGCAGCCCTG-3' 5'-TGGCAGACNGGGTGGTGGT-3' (Volff <i>et al.</i> , 1999)	25	200	1,5	0,2	0,04	1
U2	5'- ATCGCTTCTCGGCCTTATG -3'	25	100	1,5	0,04	0,8	1
snRNA	3'- TCCC GGCGGTACTGCAATA -5' (Bueno <i>et al.</i> , 2013)						
H1	5'-ATGGCAGAARYCGCMCCAGC-3' 5'-TACTTCTTCTGGGSGCTGC-3' (Hashimoto <i>et al.</i> , 2011)	25	100	1,5	0,2	0,16	1
H3	5'-ATGGCTCGTACCAAGCAGACVGC-3' 5'-ATATCCTTRGGCATRATRGTGAC-3' (Colgan <i>et al.</i> , 1998)	25	100	1,5	0,2	0,16	1
H4	5'-TSCGIGAYAACATYCAGGGIATCAC-3' 5'-CKYTTIAGIGCRTAIACCACRTCCAT-3' (Pineau <i>et al.</i> , 2005)	25	100	1,5	0,2	0,16	1

*Taq polymerase

References

- Bueno D, Palacios-Gimenez OM and Cabral-de-Mello DC (2013) Chromosomal mapping of repetitive DNAs in the grasshopper *Abracris flavolineata* reveal possible ancestry of the B chromosome and H3 histone spreading. PLoS One 8:e66532.
- Colgan D, McLauchlan A, Wilson G and Livingston S (1998) Histone H3 and U2 snRNA DNA sequences and arthropod molecular evolution. Aust J Zool 46:419-437.
- Hashimoto DT, Ferguson-Smith MA, Rens W, Foresti F and Porto- Foresti F (2011) Chromosome mapping of H1 histone and 5S rRNA gene clusters in three species of *Astyanax* (Teleostei, Characidae). Cytogenet Genome Res 134:64-71.
- Pineau P, Henry M, Suspène R, Marchio A, Dettai A, Debruyne R, Petit T, Lécu A, Moisson P, Dejean A *et al.* (2005) A universal primer set for PCR amplification of nuclear histone H4 genes from all animal species. Mol Biol Evol 22:582-588.
- Volf JN, Körting C, Sweeney K and Schartl M (1999) The Non-LTR retrotransposon Rex3 from the fish *Xiphophorus* is widespread among teleosts. Mol Biol Evol 16:1427-1438.
- Volff JN, Kortting K and Schartl M (2000) Multiple lineages of the non-LTR retrotransposon *Rex1* with varying success in invading fish genomes. Mol Biol Evol 17:1673-1684.