

Additional File 1. Final alignment of nucleotide sequences encompassing the class I and class II 5S rRNA genes from the three Potamotrygonidae stingrays. Species are referred to as follows: Pfalkneri = *Potamotrygon falkneri*, Pmotoro = *P. motoro*, Paireba = *Paratrygon aiereba*. Dots represent sequence identity, gray shadowed nucleotides are indicative of distinctive sites between 5S genes found in the two 5S rDNA arrays. The internal control regions (A box, IE and C box) are highlighted in black. a, 5S rRNA genes class II; b, 5S rRNA genes class I.

	+44										+120
Pfalkneri01	CTCGGA	AGCT	AAGCAGGCTC	AGGCCTGGTT	AGTACT	TGGA	TGGGAGACCG	GCTGGGAATA	CCAGGTGCCG	TAGGCTT	
Pfalkneri02	.....	.....	.....	.....	.....	.....	.....	C.....G	.....	.....	
Pfalkneri03	.....	.....	.....	.....	.....	.....	.....	C.....	.....	.....	
Pmotoro01	.....	.....	.....	.....	.....	.....	.....	C.....	.....	.....	
Pmotoro02	.....	.....	.....	.....	.....	.....	.....	C.....	.....	.....	
Pmotoro03	.....	.....	.....	.....	.....	.....	.....	C.....	.....	.....	
Pmotoro04	.....	.....	.....	.....	.....	.....	.....	C.....	.....	.....	
Pmotoro05	.....	.....	.....	.....	.....	.....	.....	C.....	.....	.....	
Pmotoro06	.....	.....	.....	.....	.....	.....	.....	C.....	.....	.....	
Paireba06	.....	.....	.....	.....G.....	.....	.....	.....	C.....	.....	.....	
Paireba01	.....	.....	.....	.....	.....	.....C.....	.....	C.....	.....	.....	
Paireba02	.....	.....	.....	.....	.....	.....	.....	C.....A.....	.....	.....	
Paireba03	.....	.....	.....	.....	.....	.....	.....	C.....	.....	.....	
Paireba04	.....	.....T.....	.....	.....	.....	.....A.....	.....	C.....	.....	.....C.....	
Paireba05	.....	.....T.....	.....	.....	.....G.....	.....	.....	C.....	.....	.....	
Paireba07	.....	.....	.....	.....	.....	.....	.....	C.....	.....	.....	
Pmotoro11	..T.....	.....	.....A.....	.....	.....	.....	.....T.....	C.....	.....	.....A.....	
Pmotoro12	..T.....	.....	.....A.....	.....	.....	.....	.....T.....	C.....	.....	.....A.....	
Pmotoro13	..T.....	.....	.....A.....	.....	.....	.....	.....T.....	C.....	.....	.....A.....	
Pmotoro14	..T.....	.....	.....A.....	.....	.....	.....	.....T.....	C.....	.....	.....A.....	
Pmotoro15	..T.....	.....	.....A.....	.....	.....	.....	.....T.....	C.....	.....	.....A.....	
Pmotoro16	..T.....	.....	.....A.....	.....	.....	.....	.....T.....	C.....	.....	.....A.....	
Pfalkneri21	..T.....	.....	.....A.....	.....	.....	.....	.....T.....	C.....	.....	.....A.....	
Pfalkneri22	..T.....	.....	.....A.....	.....	.....	.....	.....T.....	C.....	.....	.....A.....	
Pfalkneri23	..T.....	.....	.....A.....	.....	.....	.....	.....T.....	C.....C.....	.....	.....A.....	
Pfalkneri24	..T.....	.....	.....A.....	.....	.....	.....	.....N.....T.....	C.....C.....	.....	.....A.....	
Pfalkneri25	..T.....	.....	.....A.....	.....	.....	.....	.....T.....	C.....	.....	.....A.....	
Pfalkneri26	..T.....	.....	.....A.....	.....	.....	.....	.....T.....	C.....	.....	.....A.....	
Paireba31	.....	.....	.....A.....	.....	.....	.....	.....A.....	C.....	.....	.....A.....	
Paireba32	.....	.....	.....A.....	.....	.....	.....	.....A.....	C.....	.....	.....A.....	