Additional file 2. Kimura-corrected average pairwise distances (intersection between line and column) between aligned sequence of *Rex*3 partial reverse transcriptase sequences from Cichlids and Perciformes marine species. Above diagonal, average genetic distance within species.

	Cichid species							Perciformes marine species			
	Neotropical						African				
	C. monoculus	A. ocellatus	G. proximus	P. scalare	S. discus	C. labridens	O. niloticus	Gymnodraco sp.	Notothenia sp.	Siniperca sp.	Cissostichus sp.
	6.60%	6.80%	9.00%	13.00%	4.40%	4.80%	1.80%	0	0	0	0
C. monoculus											
A. ocellatus	9.11%										
G. proximus	11.31%	10.57%									
P. scalare	15.33%	13.39%	16.35%								
S. discus	11.56%	10.60%	12.58%	13.56%							
C. labridens	10.83%	10.02%	12.49%	13.37%	6.96%						
O. niloticus	13.13%	12.54%	13.94%	18.16%	13.57%	12.59%					
Gymnodraco sp.	31.25%	32.10%	31.60%	37.08%	31.86%	32.67%	29.39%				
Notothenia sp.	29.32%	29.76%	29.68%	34.75%	29.84%	30.61%	27.43%	2.63%			
Siniperca sp.	22.10%	23.29%	22.69%	27.66%	21.52%	22.32%	16.31%	29.56%	27.59%		
Cissostichus sp.	30.02%	30.74%	30.15%	35.64%	30.50%	31.32%	28.10%	2.19%	2.19%	28.26%	