

Additional file 3: Completeness of transfer RNAs sequencing. It is shown whether each of the 22 tRNA coded in to mitochondrial genome of 31 Loricarioidei species was sequenced to its complete length (complete), partially sequenced (partial) or not sequenced (not seq.).

Species	tRNA-Phe	tRNA-Val	tRNA-Leu2	tRNA-Ile
<i>Hemipsilichthys nimius</i>	partial	complete	partial	complete
<i>Rineloricaria</i> cf. <i>lanceolata</i>	not seq.	complete	partial	complete
<i>Rineloricaria</i> sp.	not seq.	complete	partial	complete
<i>Loricariichthys platymetopon</i>	partial	complete	complete	complete
<i>Loricariichthys castaneus</i>	partial	partial	complete	complete
<i>Loricaria cataphracta</i>	partial	not seq.	complete	complete
<i>Otocinclus</i> cf. <i>hoppei</i>	complete	complete	partial	not seq.
<i>Hypoptopoma incognitum</i>	complete	complete	complete	complete
<i>Parotocinclus maculicauda</i>	not seq.	not seq.	partial	complete
<i>Hisonotus thayeri</i>	not seq.	not seq.	partial	complete
<i>Kronichthys heylandi</i>	complete	partial	complete	complete
Neoplecostomini gen. n.	not seq.	not seq.	not seq.	complete
<i>Neoplecostomus microps</i>	not seq.	complete	complete	complete
<i>Pareiorhaphis garbei</i>	complete	not seq.	complete	complete
<i>Schizolecis guntheri</i>	not seq.	partial	partial	complete
<i>Ancistrus</i> sp. 1	partial	complete	partial	complete
<i>Ancistrus</i> sp. 2	not seq.	complete	complete	complete
<i>Ancistrus multispinis</i>	not seq.	partial	complete	not seq.
<i>Dekeyseria amazonica</i>	partial	complete	complete	complete
<i>Baryancistrus xanthellus</i>	complete	not seq.	partial	complete
<i>Pterygoplichthys</i> sp.	complete	complete	partial	complete
<i>Pterygoplichthys pardalis</i>	complete	not seq.	partial	complete
<i>Hypostomus</i> sp.	complete	not seq.	partial	not seq.
<i>Hypostomus</i> cf. <i>plecostomus</i>	complete	partial	partial	complete
<i>Hypostomus affinis</i>	not seq.	not seq.	partial	not seq.
<i>Aphanotorulus emarginatus</i>	partial	not seq.	partial	not seq.
<i>Peckoltia furcata</i>	partial	not seq.	complete	not seq.
<i>Ancistomus snethlageae</i>	not seq.	complete	complete	complete
<i>Panaqolus</i> sp.	not seq.	complete	complete	complete
<i>Corydoras nattereri</i>	complete	complete	complete	complete
<i>Corydoras schwartzi</i>	partial	partial	complete	complete
complete	10	14	15	25
partial	9	6	15	0
not sequenced	12	11	1	6

tRNA-Gln	tRNA-Met	tRNA-Trp	tRNA-Ala	tRNA-Asn	tRNA-Cys	tRNA-Tyr
complete	complete	complete	complete	complete	complete	complete
complete	complete	not seq.	partial	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	not seq.	not seq.	not seq.	not seq.	partial
complete	complete	complete	complete	complete	complete	complete
partial	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
partial	not seq.	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
partial	partial	not seq.	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	partial	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
partial	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	partial	complete	complete	complete	complete
partial	partial	complete	complete	complete	complete	complete
partial	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
not seq.	not seq.	not seq.	not seq.	not seq.	not seq.	not seq.
not seq.	complete	complete	complete	complete	complete	complete
partial	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	partial	partial	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
22	26	25	27	29	29	29
7	3	2	2	0	0	1
2	2	4	2	2	2	1

tRNA-Ser2	tRNA-Asp	tRNA-Lys	tRNA-Gly	tRNA-Arg	tRNA-His	tRNA-Ser1
complete	partial	complete	complete	complete	not seq.	not seq.
complete	not seq.	complete	complete	complete	complete	complete
complete	not seq.	complete	complete	complete	not seq.	partial
complete	complete	complete	complete	complete	complete	complete
complete	not seq.	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	partial	complete	not seq.	complete	not seq.	not seq.
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	partial	complete	not seq.	not seq.
complete	complete	complete	complete	complete	complete	complete
complete	not seq.	complete	not seq.	complete	not seq.	not seq.
complete	complete	complete	complete	complete	not seq.	not seq.
complete	partial	complete	complete	complete	not seq.	not seq.
complete	complete	complete	complete	complete	not seq.	partial
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	partial	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	partial	complete
complete	complete	complete	partial	partial	not seq.	not seq.
complete	complete	complete	complete	complete	complete	complete
complete	complete	partial	partial	partial	not seq.	not seq.
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	partial	complete	complete	partial	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	complete	complete	complete	complete	complete	complete
complete	not seq.	complete	complete	complete	complete	partial
31	23	29	25	29	19	20
0	3	2	4	2	2	3
0	5	0	2	0	10	8

tRNA-Leu1	tRNA-Glu	tRNA-Thr	tRNA-Pro	complete	partial	not sequenced
partial	complete	not seq.	not seq.	14	4	4
complete	complete	complete	complete	17	2	3
complete	complete	not seq.	not seq.	15	2	5
complete	complete	complete	partial	20	2	0
complete	complete	complete	complete	14	3	5
complete	complete	complete	partial	19	2	1
complete	complete	not seq.	not seq.	17	2	3
complete	complete	complete	complete	22	0	0
partial	complete	complete	complete	12	4	6
complete	complete	not seq.	not seq.	17	1	4
partial	complete	complete	complete	14	5	3
complete	complete	complete	complete	19	0	3
partial	complete	not seq.	partial	13	3	6
partial	complete	complete	complete	18	1	3
not seq.	complete	not seq.	not seq.	13	3	6
complete	complete	complete	complete	18	3	1
complete	complete	complete	complete	21	0	1
complete	complete	partial	complete	16	4	2
complete	complete	complete	complete	21	1	0
complete	complete	partial	complete	18	3	1
not seq.	complete	not seq.	not seq.	13	4	5
complete	partial	not seq.	not seq.	15	4	3
not seq.	complete	not seq.	not seq.	10	5	7
complete	complete	not seq.	not seq.	18	2	2
complete	partial	not seq.	not seq.	8	2	12
complete	complete	not seq.	not seq.	15	2	5
complete	complete	not seq.	partial	14	5	3
complete	complete	complete	complete	21	0	1
complete	complete	complete	complete	19	2	1
complete	complete	complete	complete	22	0	0
complete	complete	complete	complete	18	3	1
23	29	16	16	complete partial not sequenced		
5	2	2	4			
3	0	13	11			