

1 **Table S2.** List of GenBank accession numbers for *MyoHC*, *hsp70*, *rbp*, 12S rRNA, 28S rRNA, and 18S rRNA gene sequences used in phylogenetic
 2 analyses.

Espèce	Sample ID	cox1	MyoHC	rbp1	hsp70	12S rRNA	28S rRNA	18S rRNA
<i>Acanthocheilonema oendhali</i>	401YU	KP760168	KP760212	KP760263	KP760410	KP760314	KP760358	KP760116
<i>Acanthocheilonema vitae</i>	7YT	KP760169	KP760213	KP760264	KP760411	KP760315	KP760359	KP760117
<i>Cercopithifilaria baina</i>	9YT3	KP760175	KP760219	KP760271	KP760417	KP760321	KP760365	KP760123
<i>Cercopithifilaria rugosicauda</i>	350YU	KC610815	KP760220	KP760272	KP760418	KC610812	KP760366	KP760124
<i>Monanema martini</i>	31NC	KP760196	KP760244	KP760295	KP760442	FR827911	KP760391	KP760148
<i>Yatesia hydrochoerus</i>	52YT	KP760211	KP760261	KP760312	KP760459	KP760356	KP760409	KP760166
<i>Cruuifilaria tuberoscauda</i>	55YT	KP760176	KP760221	KP760273	KP760419	KP760322	KP760367	KP760125
<i>Litomosoides brasiliensis</i>	PF35	KP760190	KP760235	KP760286	KP760433	KP760335	KP760381	KP760139
<i>Litomosoides brasiliensis</i>	PF37	KP760191	KP760236	KP760287	KP760434	KP760336	KP760382	KP760140
<i>Litomosoides hamletti</i>	PF36	KP760192	KP760237	KP760288	KP760435	KP760337	KP760383	KP760141
<i>Litomosoides solarii</i>	213YU	KP760193	KP760238	KP760289	KP760436	KP760338	KP760385	KP760142
<i>Dipetalonema caudispina</i>	362YU	KP760177	KP760222	KP760274	KP760420	KP760323	KP760368	KP760126
<i>Dipetalonema caudispina</i>	64YT	KP760178	KP760223	KP760275	KP760421	KP760324	KP760369	KP760127
<i>Dipetalonema gracile</i>	124CV	KP760179	KP760224	KP760276	KP760422	KP760325	KP760370	KP760128
<i>Dipetalonema gracile</i>	215YU	KP760180	KP760225	KP760277	KP760423	KP760326	KP760371	KP760129
<i>Dipetalonema gracile</i>	63YT	KP760181	KP760226	KP760278	KP760424	KP760327	KP760372	KP760130
<i>Dipetalonema graciliformis</i>	220YU	KP760182	KP760227	KP760279	KP760425	KP760328	KP760373	KP760131
<i>Dipetalonema robini</i>	217YU	KP760183	KP760228	KP760280	KP760426	KP760329	KP760374	KP760132
<i>Brugia malayi</i>	8YT	KP760171	KP760216	KP760267	KP760414	KP760317	KP760362	KP760120
<i>Brugia pahangi</i>	46YT	KP760172	KP760217	KP760268	KP760415	KP760318	KP760363	KP760121
<i>Brugia timori</i>	6YT	KP760173	KP760218	KP760269	KP760416	KP760319	KP760364	KP760122
<i>Loa loa</i>	80YT	KP760194	KP760239	KP760290	KP760437	KP760339	KP760386	KP760143
<i>Foleyella candezei</i>	68CE	KP760187	KP760232	KP760283	KP760430	FR827906	KP760378	KP760136
<i>Pelecinius fulicaeae</i>	49YT	KP760206	KP760256	KP760308	KP760454	KP760352	KP760404	KP760161
<i>Breimlia jittapalaponi</i>	78YT	KP760170	KP760215	KP760266	KP760413	KP760316	KP760361	KP760119
<i>Aproctella alessandroi</i>	117YU	FR823335	KP760214	KP760265	KP760412	FR827905	KP760360	KP760118
<i>Rumenfilaria andersoni</i>	94YU	JQ888273	KP760258	KP760309	KP760456	JQ888291	KP760406	KP760163
<i>Madathamugadia heipei</i>	81YU	JQ888270	KP760242	KP760293	KP760440	JQ888289	KP760389	KP760146
<i>Mansonella ozzardi</i>	77YT	KP760195	KP760243	KP760294	KP760441	KP760340	KP760390	KP760147
<i>Mansonella perforata</i>	216JW	AM749265	KP760241	KP760292	KP760439	AM779802	KP760388	KP760145
<i>Onchocerca armilata</i>	54FKa1	KP760200	KP760248	KP760300	KP760446	KP760345	KP760396	KP760153
<i>Onchocerca dewittei japonica</i>	OB9	KP760203	KP760249	KP760301	KP760447	KP760349	KP760397	KP760154
<i>Onchocerca eberhardi</i>	S63-5	AM749268	KP760250	KP760302	KP760448	KP760346	KP760398	KP760155
<i>Onchocerca gutturosa</i>	54FKg1	KP760201	KP760251	KP760303	KP760449	KP760347	KP760399	KP760156
<i>Onchocerca ochengi</i>	54FKo1	KP760202	KP760252	KP760304	KP760450	KP760348	KP760400	KP760157
<i>Onchocerca skrjabini</i>	S63-6	AM749269	KP760253	KP760305	KP760451	AM779806	KP760401	KP760158
<i>Dirofilaria immitis</i>	79YT	KP760184	KP760229	KP760281	KP760427	KP760330	KP760375	KP760133
<i>Dirofilaria repens</i>	297YU	KP760185	KP760230	KP760282	KP760428	KP760331	KP760376	KP760134
<i>Setaria labiotopapillosa</i>	413YU	KP760208	KP760259	KP760310	KP760457	KP760354	KP760407	KP760164
<i>Setaria tundra</i>	71YT	KP760209	KP760260	KP760311	KP760458	KP760355	KP760408	KP760165
<i>Icosiella neglecta</i>	44YT	KP760188	KP760233	KP760284	KP760431	KP760333	KP760379	KP760137
<i>Oswaldofilaria chabaudi</i>	191YU	KP760204	KP760254	KP760306	KP760452	KP760350	KP760402	KP760159
<i>Oswaldofilaria petersi</i>	PF34	KP760205	KP760255	KP760307	KP760453	KP760351	KP760403	KP760160
<i>Wuchereria bancrofti</i>	173	SSBO01000000	SSBO01000000	SSBO01000000	SSBO01000000	SSBO01000000	SSBO01000000	SSBO01000000
<i>Ascaris suum</i>	RED_2019	JACCHR010000000	JACCHR010000000	JACCHR010000000	JACCHR010000000	JACCHR010000000	JACCHR010000000	JACCHR010000000

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