

1 **Additional file 2**

2 **Table S2. Results of ancestral range reconstructions with Lagrange at nodes in the ingroup.** These results were highly similar to
3 those obtained with ape (Fig. 2). Relative probabilities of reconstructed scenarios are given for each node of interest in the format
4 ‘upper branch|lower branch’. Within clade 3, nodes are represented from top to bottom as displayed in Fig. 2. Scenarios with a relative
5 probability of <0.05 are not displayed, except if the scenario was included at another node with a likelihood of >0.05. Af = Africa; Am
6 = America; As = Asia; O = Oceania. In summary, basal nodes typically have several scenarios with a somewhat similar likelihood;
7 the relative probability is greatest for an African origin at the basal node; external evidence that American taxa within clade 5
8 represent historic Asian invasions (e.g. ref [20] in paper) results in the greatest relative probabilities for an Asian origin of this clade,
9 and an Asian origin is also supported for the clade that comprises the BIT morph from Lake Tanganyika (Clade 3-2).

	Af Af	Af Af+As	Af As	Af+As As	Af+As Af	As Af+As	As As	Af+Am Am	Am As+Am	Af Am	Af Af+Am	As As+Am	As Af	Af Af+O	Af+O Af	O O	O Af	O As
Basal node	<u>0.34</u>	<u>0.33</u>	0.06	0.06	0.05	0.00	<0.05	0.00	0.00	0.00	<0.05	0.00	0.00	<0.05	0.00	0.00	0.00	0.00
Clade 1	0.29	0.17	0.00	0.06	0.06	0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Clade 5 basal	0.00	0.00	<u>0.47</u>	0.07	0.00	0.00	<0.05	<u>0.21</u>	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Clade 5 upper	0.44	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Clade 5 lower	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00
Clade 6 basal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Clade 6 upper	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Clade 6 lower	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Clade 2	0.68	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.09	0.00	0.00	0.00	0.00
Clade 3 base	0.48	0.07	0.00	0.00	0.00	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	<0.05	0.00
Clade 3 - 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
Clade 3 - 2	0.00	0.00	0.00	0.00	0.00	<u>0.16</u>	<u>0.84</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Clade 3 - 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.25
Clade 3 - 4	0.13	0.00	0.00	0.00	0.00	0.47	0.15	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00
Clade 3 - 5	0.36	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Clade 4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

