ADDITIONAL FILE 4

Supplementary tables and figures.

Table S1: Parameters used to estimate the number of specimens sold.

Part (S)	**Description**	**Considered taxa**	**Conversion factor for the equivalent of a whole organism**
Specimen	Complete specimens (alive or dead)	All	1
Specimens (Dead)	(Animal weight)	All	Biomass[a,b]
Carcasses	Dead animals	All	1
Eyes and Ears	-	All	2
Feet/Paws/Hooves	-	All	4
Penis			1
Heads			1
Horns	-	All	2
		Diceros bicornis	2
		Ceratotherium simun	2
		Dicerorhinus sumatrensis	2

		Rhinoceros sondaicus	1
		Rhinoceros javanicus	1
Tail		All	1
Hands		Primates	2
Gallbladder		Ursidae	1
Skin/Hide		All	1
Scales		*Manis pentadactyla*	0.573g[c,d]
		Manis crassicaudata	1 000g[c,d]
		Manis culionensis	0.360g[c,d]
		Manis javanica	0.360g[c,d]
		Smutsia gigantea	1 000g[c,d]
Nose		All	1
Tusks (ivory)		Elephantidae, Suidae, Dugongidae, Hippopotamidae, Odobenidae	2
		Monodontidae	1
Legs	-	All	2

Organs (heart, stomach, tongue, penis, intestines)	All	1

[a]Jones et al. (2009), [b]Faurby et al. (2018), [c]Challender et al. (2015) and [d]Ullmann et al. (2019).

Table S2: Number of trade records, species, and specimens – WOE of mammals traded per taxonomic families.

Family	Total_species	Total_records	Total_WOE
Ailuridae	1	6	8
Atelidae	2	3	12
Balaenidae	1	3	50
Balaenopteridae	6	57	NA
Bovidae	47	304	NA
Camelidae	1	9	555
Canidae	14	66	NA
Castoridae	2	3	NA
Caviidae	1	8	200230
Cebidae	15	40	1379
Cercopithecidae	46	162	NA
Cervidae	15	151	NA
Chlamyphoridae	3	15	NA
Cricetidae	1	6	30608
Dasyproctidae	1	1	3
Delphinidae	17	89	279786
Diatomydae	1	1	3
Didelphidae	2	3	296572
Dugongidae	1	14	97
Echimyidae	1	3	6282

Elephantidae	2	933	257144
Equidae	3	6	45
Erinaceidae	9	15	NA
Eschrichtiidae	1	1	NA
Felidae	30	1420	NA
Galagidae	4	13	NA
Giraffidae	1	5	NA
Herpestidae	8	14	NA
Hippopotamidae	1	30	17830
Hominidae	5	117	953
Hyaenidae	2	8	12
Hylobatidae	9	29	NA
Hystricidae	7	50	NA
Indriidae	1	1	NA
Iniidae	1	1	252
Kogiidae	1	1	1
Lemuridae	3	7	NA
Leporidae	3	17	NA
Lorisidae	7	44	NA
Macropodidae	14	26	NA
Manidae	8	164	67591
Monodontidae	2	102	12765
Moschidae	4	91	NA
Muridae	2	2	NA
Mustelidae	31	89	NA
Nandiniidae	1	1	NA
Nesomyidae	1	4	NA
Odobenidae	1	17	998
Ornithorhynchidae	1	2	6
Orycteropodidae	1	2	1
Otariidae	9	64	NA
Peramelidae	1	1	NA
Petauridae	1	4	1500

Phalangeridae	3	14	NA
Phascolarctidae	1	1	NA
Phocidae	16	199	1832895
Phocoenidae	3	15	155065
Physeteridae	1	19	4093
Prionodontidae	2	8	NA
Procaviidae	2	4	NA
Procyonidae	2	8	276008
Pseudocheiridae	1	5	5478200
Pteropodidae	7	26	NA
Rhinocerotidae	5	177	5399
Sciuridae	12	19	NA
Spalacidae	3	7	NA
Suidae	7	36	NA
Tachyglossidae	2	4	52
Talpidae	2	2	NA
Tapiridae	3	10	27
Tarsiidae	1	1	NA
Tayassuidae	3	16	4434330
Thryonomyidae	1	5	NA
Tragulidae	3	11	NA
Tupaiidae	2	2	NA
Ursidae	8	331	NA
Viverridae	13	58	NA
Ziphiidae	2	7	217

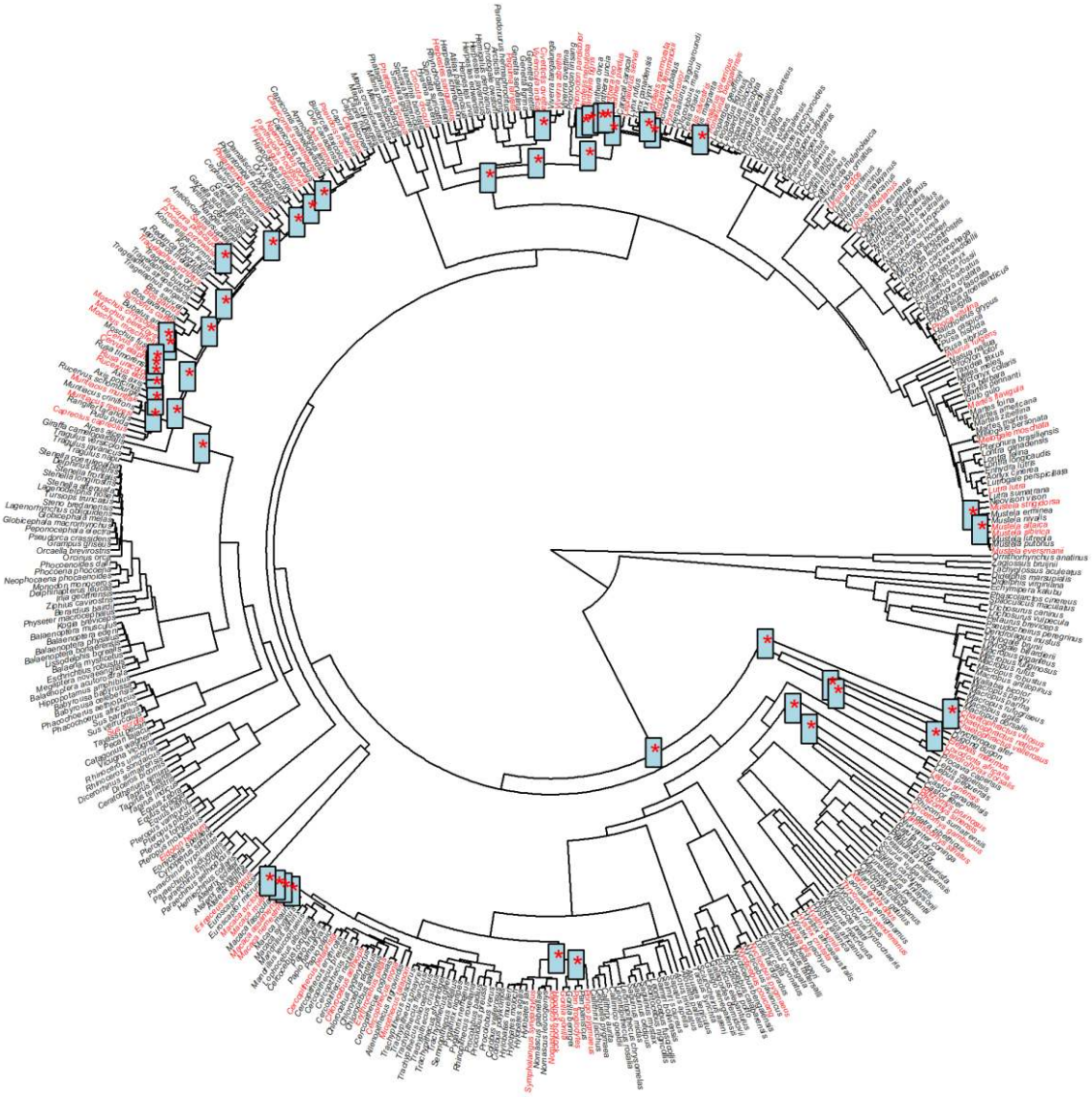

Figure S1: Phylogenetic relationships of world mammals (from Upham et al., 2019), showing clades that contribute significantly to phylogenetic clustering for trade. The subset of traded mammals is in red. Clades with more descendent taxa in each subset than expected by chance are indicated with red asterisks.