

Table S3. List of specimens included in 3DGM analysis

Taxon	Specimen ID	Taxon	Specimen ID
<i>Avahi laniger</i>	AMNH 170461	<i>Saguinus sp.</i>	SBU NSg2
<i>Cheirogaleus major</i>	AMNH 100640	<i>Saimiri boliviensis</i>	AMNH209934
<i>Daubentonia madagascariensis</i>	AMNH 185643	<i>Saimiri boliviensis</i>	AMNH211650
<i>Eulemur fulvus</i>	AMNH 17403	<i>Saimiri boliviensis</i>	AMNH211651
<i>Eulemur fulvus</i>	AMNH 31254	<i>Saimiri sciureus</i>	AMNH188080
<i>Hapalemur griseus</i>	AMNH 170675	<i>Saimiri sp.</i>	SBU NSm2
<i>Hapalemur griseus</i>	AMNH 170689	<i>Cercopithecus sp.</i>	SBU No Number
<i>Hapalemur griseus</i>	AMNH 61589	<i>Cercopithecus sp.</i>	SBU No Number
<i>Indri indri</i>	AMNH 100504	<i>Chlorocebus aethiops</i>	SBU OCr7
<i>Indri indri</i>	AMNH 208992	<i>Chlorocebus cynosuroides</i>	AMNH 80787
<i>Lemur catta</i>	AMNH 150039	<i>Colobus geureza</i>	AMNH 27711
<i>Lemur catta</i>	AMNH 170739	<i>Erythrocebus patas</i>	AMNH 34709
<i>Lemur catta</i>	AMNH 22912	<i>Lophocebus albigena</i>	AMNH 52603
<i>Lepilemur mustelinus</i>	AMNH 170565	<i>Macaca nigra</i>	SBU OCn1
<i>Lepilemur mustelinus</i>	AMNH 170568	<i>Macaca tonkeana</i>	AMNH 153402
<i>Lepilemur mustelinus</i>	AMNH 170569	<i>Mandrillus sphinx</i>	AMNH 89367
<i>Propithecus verreauxi</i>	AMNH 170463	<i>Nasalis larvatus</i>	AMNH 106272
<i>Propithecus verreauxi</i>	AMNH 170491	<i>Papio hamadryas</i>	AMNH 80774
<i>Varecia variegata</i>	AMNH 100512	<i>Ptilocolobus badius</i>	AMNH 52303
<i>Alouatta seniculus</i>	AMNH 42316	<i>Ptilocolobus badius</i>	NYCEP 4651
<i>Alouatta seniculus</i>	SBU NAI13	<i>Pygathrix nemaeus</i>	AMNH 87255
<i>Alouatta sp.</i>	SBU NAI17	<i>Theropithecus gelada</i>	AMNH 201008
<i>Alouatta sp.</i>	SBU NAI18	<i>Trachypithecus obscurus</i>	AMNH 112977
<i>Aotus azarae</i>	AMNH 211482	<i>Gorilla sp.</i>	UK 6001
<i>Aotus infulatus</i>	AMNH 94992	<i>Hylobates lar</i>	AMNH 119601
<i>Aotus sp.</i>	AMNH 201647	<i>Pan troglodytes</i>	AMNH 51202
<i>Ateles paniscus</i>	SBU NAt10	<i>Pan troglodytes</i>	AMNH 51278
<i>Ateles sp.</i>	SBU NAt13	<i>Pongo pygmaeus</i>	AMNH 28253
<i>Ateles sp.</i>	SBU NAt18	<i>Symphalangus syndactylus</i>	AMNH 106583
<i>Brachyteles arachnoides</i>	AMNH 260	<i>Cantius abditus</i>	USGS 6783
<i>Cacajao calvus</i>	AMNH 70192	<i>Cantius sp.</i>	USGS 6774
<i>Cacajao calvus</i>	SBU NCj1	<i>Cantius trigonodus</i>	AMNH 16852
<i>Callicebus donacophilus</i>	AMNH 211490	<i>Cantius trigonodus</i>	USGS 21829
<i>Callicebus moloch</i>	AMNH 244363	<i>Cebupithecia sarmientoi</i>	UCMP 38762*
<i>Callicebus moloch</i>	AMNH 94977	<i>Marcgodinotius indicus</i>	GU 709
<i>Callimico goeldi</i>	AMNH 183289	<i>Mesopithecus pentelici</i>	MNHN-PIK 266*
<i>Callimico goeldi</i>	SBU NCa1	<i>Neosaimiri fieldsi</i>	IGM-KU 89201*
<i>Callithrix jacchus</i>	AMNH 133692	<i>Neosaimiri fieldsi</i>	IGM-KU 89202*
<i>Callithrix jacchus</i>	AMNH 133698	<i>Notharctus sp.</i>	AMNH 55061
<i>Cebuella pygmaea</i>	AMNH 244101	<i>Notharctus tenebrosus</i>	AMNH 11474
<i>Cebuella pygmaea</i>	SBU NC1	<i>Omomyiform</i>	AMNH 29164
<i>Cebus apella</i>	SBU NCb4	<i>Omomys sp.</i>	UM 98604
<i>Cebus sp.</i>	SBU NCb5	<i>Oreopithecus bambolii</i>	NMB 37*
<i>Chiropotes satanus</i>	AMNH 95760	<i>Ourayia uintensis</i>	SDNHM 60933
<i>Chiropotes satanus</i>	AMNH 96123	<i>Parapithecoid</i>	DPC 15679
<i>Chiropotes sp.</i>	SBU NCh2	<i>Parapithecoid</i>	DPC 20576
<i>Leontopithecus rosalia</i>	AMNH 137270	<i>Parapithecoid</i>	DPC 2381
<i>Leontopithecus rosalia</i>	AMNH 60647	<i>Parapithecoid</i>	DPC 8810
<i>Pithecia monachus</i>	AMNH 187978	<i>Proteopithecus sylviae</i>	DPC 24776
<i>Pithecia pithecia</i>	AMNH 149149	<i>Smilodectes gracilis</i>	AMNH 131763
<i>Saguinus midas</i>	AMNH 266481	<i>Smilodectes gracilis</i>	AMNH 131774
<i>Saguinus mystax</i>	AMNH 188177	<i>Teihardina belgica</i>	IRSNB 16786-03
<i>Saguinus sp.</i>	SBU NSg12	<i>Washakius insignis</i>	AMNH 88824