

Table S9. Genome rates, branch lengths, and indels for catarrhine species.

SPECIES	SUPERFAMILY	FAMILY	SUBFAMILY	TRIBE	GENUS	Substitution	Rate 95%	Rate 95%	Branch Length	Branch Length	Number of
						rate ¹	HPD-L	HPD-H	(ML)	(MP)	indels per
CAB 1 Cercopithecus albogularis kolbi	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Cercopithecus	5.49	2.37	9.02	5.29	12	0
CMT 1 Cercopithecus mitis	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Cercopithecus	3.87	1.73	6.31	2.43	5	0
CAS 1 Cercopithecus ascanius schmidti	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Cercopithecus	6.75	3.92	9.95	15.65	45	0
CCE 1 Cercopithecus cephus	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Cercopithecus	3.49	1.87	5.24	7.43	22	0
CPP 1 Cercopithecus petaurista petaurista	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Cercopithecus	4.27	2.37	6.33	13.31	33	0
CDA 3 Cercopithecus diana	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Cercopithecus	4.17	2.88	5.59	21.56	62	1
CWW 1 Cercopithecus wolfi wolfi	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Cercopithecus	2.36	1.51	3.39	6.35	14	1
CMO 2 Cercopithecus mona	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Cercopithecus	11.41	8.05	14.64	48.14	83	0
CNE 1 Cercopithecus neglectus	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Cercopithecus	4.90	3.24	6.73	25.75	42	1
CHH 1 Cercopithecus hamlyni hamlyni	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Cercopithecus	5.30	3.78	6.95	33.07	104	0
MOG 1 Miopithecus ogoensis	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Miopithecus	4.54	3.20	5.83	33.99	79	3
CAE 8 Chlorocebus aethiops	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Chlorocebus	5.63	3.04	8.82	6.86	20	0
CSB 1 Chlorocebus sabaeus	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Chlorocebus	5.87	2.99	9.05	7.20	22	0
CAE 4 Chlorocebus cynosuroides	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Chlorocebus	3.13	1.68	4.87	3.35	10	0
CIH 1 Cercopithecus lhoesti	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Note 1	4.77	3.15	6.61	21.19	65	0
EPA 9 Erythrocebus patas	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Erythrocebus	5.45	3.50	7.41	24.80	75	2
ANI 1 Allenopithecus nigroviridis	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Cercopithecini	Allenopithecus	6.75	5.02	8.62	53.97	140	1
CAC 1 Cercocebus agilis	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Cercocebus	8.09	4.23	12.53	9.45	19	0
CCY 1 Cercocebus chrysogaster	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Cercocebus	2.79	1.48	4.50	0.73	2	0
CTR 1 Cercocebus torquatus	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Cercocebus	6.66	4.12	9.52	22.81	68	1
MLE 2 Mandrillus leucophaeus	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Mandrillus	5.73	2.80	9.04	7.81	22	0
MSP 12 Mandrillus sphinx	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Mandrillus	3.58	1.82	5.66	3.93	12	0
LAA 1 Lophocebus albigena	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Lophocebus	4.62	1.88	7.62	1.08	3	0
LAT 2 Lophocebus aerrimus	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Lophocebus	4.68	1.94	7.91	1.22	3	0
PAN 10 Papio anubis	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Papio	3.65	1.56	5.98	1.69	6	0
PHM 1 Papio hamadryas	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Papio	5.88	2.89	9.23	4.86	13	1
PPP 2 Papio papio	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Papio	4.87	2.55	7.71	5.81	17	0
TGE 2 Theropithecus gelada	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Theropithecus	3.12	2.04	4.15	11.51	28	0
MAC 1 Macaca arctoides [fascicularis group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	4.57	2.61	6.87	10.82	27	1
MTH 3 Macaca thibetana [sinica group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	3.46	1.82	5.17	7.28	19	0
MFS 2 Macaca fuscata [mulatta group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	5.15	2.80	7.86	8.01	20	0
MMA 14 Macaca mulatta [mulatta group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	4.32	2.31	6.71	6.16	20	0
MCY 3 Macaca cyclopis[mulatta group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	4.77	2.66	7.12	8.44	26	1
MFA 18 Macaca fascicularis[fascicularis group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	4.06	2.50	5.86	10.79	31	1
MCA 1 Macaca maura [sulawesi group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	3.51	1.83	5.43	3.30	10	1
MTO 6 Macaca tonkeana [sulawesi group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	5.61	2.95	8.73	7.04	15	0
MNG 3 Macaca nigra [sulawesi group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	6.92	3.81	10.46	10.42	32	0
MOC 1 Macaca ochreata [sulawesi group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	4.09	2.16	6.12	5.30	16	0
MNE 5 Macaca nemestrina [nemestrina group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	5.41	2.96	8.20	7.80	22	0
MSI 7 Macaca silenus [nemestrina group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	5.48	3.05	8.26	8.05	21	0
MSE 1 Macaca siberu [nemestrina group]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	4.44	2.64	6.31	10.79	26	0
MSY 3 Macaca sylvanus [african]	Cercopithecoidea	Cercopithecidae	Cercopithecinae	Papionini	Macaca	4.35	3.23	5.51	22.40	68	1
TOB 4 Trachypithecus obscurus	Cercopithecoidea	Cercopithecidae	Colobinae		Trachypithecus	4.26	2.08	6.44	5.01	13	1
TPH 1 Trachypithecus phayrei	Cercopithecoidea	Cercopithecidae	Colobinae		Trachypithecus	6.21	3.06	9.48	8.49	22	2
TAU 1 Trachypithecus auratus	Cercopithecoidea	Cercopithecidae	Colobinae		Trachypithecus	4.19	2.39	6.20	8.01	23	2
TDE 1 Trachypithecus delacouri	Cercopithecoidea	Cercopithecidae	Colobinae		Trachypithecus	4.22	1.96	6.83	2.23	6	0
TFR 1 Trachypithecus francoisi	Cercopithecoidea	Cercopithecidae	Colobinae		Trachypithecus	6.26	3.13	9.82	4.57	13	0
THA 1 Trachypithecus hatinhensis	Cercopithecoidea	Cercopithecidae	Colobinae		Trachypithecus	4.04	1.99	6.34	2.82	9	0
SEF 2 Semnopithecus entellus	Cercopithecoidea	Cercopithecidae	Colobinae		Semnopithecus	3.85	1.83	6.17	1.92	5	0
SHE 1 Semnopithecus hector	Cercopithecoidea	Cercopithecidae	Colobinae		Semnopithecus	7.00	3.50	11.45	6.34	14	0
SEE 1 Semnopithecus entellus entellus	Cercopithecoidea	Cercopithecidae	Colobinae		Semnopithecus	3.69	1.90	5.73	4.45	14	0
TVV 2 Trachypithecus vetulus monticola	Cercopithecoidea	Cercopithecidae	Colobinae		Note 1	4.34	2.68	6.33	10.44	32	0

1 nucleotide substitution/site/MY

Note 1: considered for taxonomic revision for genus.

Table S9. Genome rates, branch lengths, and indels for catarrhine species.

SPECIES	SUPERFAMILY	FAMILY	SUBFAMILY	TRIBE	GENUS	Substitution rate ¹	Rate 95% HPD-L	Rate 95% HPD-H	Branch Length (ML)	Branch Length (MP)	Number of indels per branch
PCN 2 <i>Pygathrix cinerea</i>	Cercopithecoidea	Cercopithecidae	Colobinae		<i>Pygathrix</i>	5.36	2.56	8.74	6.04	18	0
PNE 2 <i>Pygathrix nemaeus</i>	Cercopithecoidea	Cercopithecidae	Colobinae		<i>Pygathrix</i>	4.46	2.09	7.23	4.38	13	0
PNI 1 <i>Pygathrix nigripes</i>	Cercopithecoidea	Cercopithecidae	Colobinae		<i>Pygathrix</i>	4.63	2.49	6.82	9.71	27	0
NLA 2 <i>Nasalis larvatus</i>	Cercopithecoidea	Cercopithecidae	Colobinae		<i>Nasalis</i>	5.30	3.68	7.24	33.30	96	1
RBR 1 <i>Rhinopithecus brelichi</i>	Cercopithecoidea	Cercopithecidae	Colobinae		<i>Rhinopithecus</i>	5.18	3.52	7.02	34.94	96	1
PCM 1 <i>Presbytis comata</i>	Cercopithecoidea	Cercopithecidae	Colobinae		<i>Presbytis</i>	3.37	1.58	5.56	1.91	5	0
PME 2 <i>Presbytis melalophos</i>	Cercopithecoidea	Cercopithecidae	Colobinae		<i>Presbytis</i>	6.20	2.98	10.32	6.30	13	0
CGU 7 <i>Colobus guereza</i>	Cercopithecoidea	Cercopithecidae	Colobinae		<i>Colobus</i>	5.77	3.16	8.57	15.09	37	1
CPO 2 <i>Colobus polykomos</i>	Cercopithecoidea	Cercopithecidae	Colobinae		<i>Colobus</i>	5.23	2.86	7.93	13.88	36	0
CAN 1 <i>Colobus angolensis palliatus</i>	Cercopithecoidea	Cercopithecidae	Colobinae		<i>Colobus</i>	4.10	2.39	6.02	13.89	39	1
PBD 1 <i>Ptilocolobus badius</i>	Cercopithecoidea	Cercopithecidae	Colobinae		<i>Ptilocolobus</i>	5.55	3.86	7.39	50.29	136	0
PTR 104 <i>Pan troglodytes verus</i>	Hominoidea	Hominidae	Homininae		<i>Pan</i>	6.96	3.81	10.37	9.75	22	1
PTR 60 <i>Pan troglodytes troglodytes</i>	Hominoidea	Hominidae	Homininae		<i>Pan</i>	3.05	1.57	4.89	2.30	7	0
PPN 8 <i>Pan paniscus</i>	Hominoidea	Hominidae	Homininae		<i>Pan</i>	5.19	2.94	7.76	11.19	34	1
HSA 34 <i>Homo sapiens</i>	Hominoidea	Hominidae	Homininae		<i>Homo</i>	6.02	4.58	7.55	40.51	127	1
GGO 9 <i>Gorilla gorilla</i>	Hominoidea	Hominidae	Homininae		<i>Gorilla</i>	4.82	3.60	6.15	40.12	121	3
PPY 155 <i>Pongo abelii</i>	Hominoidea	Hominidae	Ponginae		<i>Pongo</i>	5.43	2.65	8.52	7.06	19	1
PPY 157 <i>Pongo pygmaeus</i>	Hominoidea	Hominidae	Ponginae		<i>Pongo</i>	3.96	1.95	6.50	4.51	11	2
HAG 6 <i>Hylobates agilis</i>	Hominoidea	Hylobatidae			<i>Hylobates</i>	5.73	2.96	8.97	11.09	27	1
HMU 6 <i>Hylobates muelleri</i>	Hominoidea	Hylobatidae			<i>Hylobates</i>	4.42	2.17	7.00	7.62	23	0
HLA 1 <i>Hylobates lar</i>	Hominoidea	Hylobatidae			<i>Hylobates</i>	5.65	3.34	8.23	18.65	46	0
SSY 2 <i>Symphalangus syndactylus</i>	Hominoidea	Hylobatidae			<i>Symphalangus</i>	3.40	2.28	4.62	28.62	78	2
HCO 3 <i>Nomascus leucogenys</i>	Hominoidea	Hylobatidae			<i>Nomascus</i>	4.87	2.25	8.03	2.57	6	0
NSI 1 <i>Nomascus siki</i>	Hominoidea	Hylobatidae			<i>Nomascus</i>	4.76	2.03	8.04	2.39	7	0
NCN 2 <i>Nomascus concolor</i>	Hominoidea	Hylobatidae			<i>Nomascus</i>	5.10	2.30	8.25	4.89	8	0
NGA 2 <i>Nomascus gabriellae</i>	Hominoidea	Hylobatidae			<i>Nomascus</i>	3.91	1.86	6.17	3.15	80	0

¹ nucleotide substitution/site/MY

Note 1: considered for taxonomic revision for genus.