

Supplementary material to Schneider and Ebert: The first three columns indicate the species, which type of genome was analyzed (Alpha-proteobacterial or Mitochondrial) and the higher taxon to which the species belong to. The next columns list the predicted lengths of the following mitochondrial gene products: *coxI*; *coxII*; *coxIII*; the combined lengths of *coxI-III*; *cytb*; *ssu* rRNA; *lsu* rRNA; the combined lengths of *ssu+lsu* rRNA. The last two columns show genome size and AT content.

The length of the proteins is indicated in amino acids (aa), the one of the rRNAs in nucleotides (n). Genome size is depicted in kilobases (kb) and AT content in percentages. The rows are ordered as follows: alpha-proteobacterial species are listed first, all remaining rows represent eukaryotes and are ordered alphabetically based on the taxon indicated in the third column. Within taxa species are ordered alphabetically.

Genome sizes indicated by the asterisks do not represent the whole genome length but only ca. 94%. This due to fact that the D-loop control region some mitochondrial genomes could not be sequenced.

Species	Type	Taxon	<i>coxI</i>	<i>coxII</i>	<i>coxIII</i>	<i>coxI-III</i>	<i>cytb</i>	<i>ssu</i>	<i>lsu</i>	<i>ssu + lsu</i>	Genome size (kb)	AT cont. (%)
			(aa)	(aa)	(aa)	(aa)	(aa)	(n)	(n)	(n)		
<i>Agrobacterium tumefaciens</i>	Alphaproteobacteria	Alphaproteobacteria	572	316	291	1179	427	1468	2410	3878	5300	.
<i>Bradyrhizobium japonicum</i>	Alphaproteobacteria	Alphaproteobacteria	541	279	298	1118	399	1490	2874	4364	9100	.
<i>Brucella suis</i>	Alphaproteobacteria	Alphaproteobacteria	552	284	292	1128	432	1554	2908	4462	3300	.
<i>Caulobacter crescentus</i>	Alphaproteobacteria	Alphaproteobacteria	552	309	290	1151	426	1330	2789	4119	4010	.
<i>Magnetospirillum magnetotacticum</i>	Alphaproteobacteria	Alphaproteobacteria	534	271	285	1090	447	.	.	.	.	.
<i>Mesorhizobium loti</i>	Alphaproteobacteria	Alphaproteobacteria	550	333	292	1175	433	1426	.	.	7590	.
<i>Rhodobacter sphaeroides</i>	Alphaproteobacteria	Alphaproteobacteria	566	360	266	1192	495	.	.	.	.	.
<i>Rhodospseudomonas palustris</i>	Alphaproteobacteria	Alphaproteobacteria	577	284	285	1146	399	.	.	.	.	.
<i>Rickettsia comorii</i>	Alphaproteobacteria	Alphaproteobacteria	532	315	308	1155	398	1440	2760	4200	1270	.
<i>Rickettsia prowazekii</i>	Alphaproteobacteria	Alphaproteobacteria	534	313	278	1125	398	1507	2761	4268	1100	.
<i>Sinorhizobium meliloti</i>	Alphaproteobacteria	Alphaproteobacteria	562	294	312	1168	426	1510	2382	3892	6700	.

<i>Acanthamoeba castellanii</i>	Mitochondrial	Acanthamoebidae	.	.	329	.	385	1541	2719	4260	41.6	70.6
<i>Arctoscopus japonicus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.6	53.7
<i>Ateleopus japonicus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.7	56.8
<i>Aulopus japonicus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.7	53.6
<i>Beryx splendens</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.5	52.7
<i>Caelorinchus kishinouyei</i>	Mitochondrial	Actinopterygii	515	227	261	1003	379	.	.	.	15.9*	57.7
<i>Carassius auratus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	954	1681	2635	16.6	57.4
<i>Ceraotherium sinum</i>	Mitochondrial	Actinopterygii	514	227	261	1002	379	973	1578	2551	16.8	59.1
<i>Chautilodus sloani</i>	Mitochondrial	Actinopterygii	515	230	261	1006	378	.	.	.	17.8*	49.6
<i>Chlorophthalmus agassizi</i>	Mitochondrial	Actinopterygii	516	230	261	1007	379	.	.	.	16.2*	52.3
<i>Calalabis saira</i>	Mitochondrial	Actinopterygii	517	230	261	1008	380	.	.	.	16.5	60
<i>Conger myriaster</i>	Mitochondrial	Actinopterygii	521	230	261	1012	380	.	.	.	18.7	63.2
<i>Coregonus lavaretus</i>	Mitochondrial	Actinopterygii	515	230	261	1006	380	.	.	.	16.7	52.4
<i>Cyprinus carpio</i>	Mitochondrial	Actinopterygii	516	230	261	1007	381	951	1681	2632	16.6	56.7
<i>Crenimugil crenilabis</i>	Mitochondrial	Actinopterygii	522	230	261	1013	378	.	.	.	16*	54.4
<i>Crossostoma lacustrre</i>	Mitochondrial	Actinopterygii	516	230	261	1007	398	951	1680	2631	16.6	54.5
<i>Dactyloptena petersenii</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.7	53.6
<i>Danaceticthys galahenus</i>	Mitochondrial	Actinopterygii	513	230	261	1004	380	.	.	.	16.6	55.3
<i>Danio rerio</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	952	1623	2575	16.6	60
<i>Diaphus splendidus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16*	49.9
<i>Diplophos taenia</i>	Mitochondrial	Actinopterygii	520	230	261	1011	379	.	.	.	16.4	47.7
<i>Echinops telfairi</i>	Mitochondrial	Actinopterygii	513	227	261	1001	379	957	1557	2514	16.6	63

<i>Elassoma evergladei</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	15.8*	58.1
<i>Engraulis japonicus</i>	Mitochondrial	Actinopterygii	514	230	261	1005	380	.	.	.	16.7	54.1
<i>Exocoetus volitans</i>	Mitochondrial	Actinopterygii	517	230	261	1008	380	.	.	.	16.6	55.7
<i>Gadus morhua</i>	Mitochondrial	Actinopterygii	516	232	261	1009	386	950	1669	2619	16.7	57.6
<i>Gasterosteus aculeatus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	15.7*	55.3
<i>Gonostoma gracile</i>	Mitochondrial	Actinopterygii	514	230	261	1005	.	940	1671	2611	16.4	50.9
<i>Harpodon microchir</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.1*	53.5
<i>Helicolenus hilgendorfii</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.7	54.2
<i>Hoplostethus japonicus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	384	.	.	.	16.5	54.3
<i>Iijimaia dofleini</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.6	57
<i>Lampris guttatus</i>	Mitochondrial	Actinopterygii	519	230	261	1010	380	770	.	.	15.6*	50
<i>Mastacembelus favus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	379	.	.	.	16.5	55
<i>Monopterus albus</i>	Mitochondrial	Actinopterygii	518	230	261	1009	379	.	.	.	16.6	56.1
<i>Mugil cephalus</i>	Mitochondrial	Actinopterygii	522	230	261	1013	379	.	.	.	16.7	54.9
<i>Mycrophum affine</i>	Mitochondrial	Actinopterygii	515	230	261	1006	382	.	.	.	16.2*	52.6
<i>Myripristis bernardi</i>	Mitochondrial	Actinopterygii	518	230	261	1009	380	.	.	.	16.5	53.1
<i>Neosopelus microchir</i>	Mitochondrial	Actinopterygii	516	230	261	1007	384	.	.	.	16.7	50.3
<i>Oncorhynchus mykiss</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	945	1513	2458	15.6	54
<i>Osteoglossum bicirrhosum</i>	Mitochondrial	Actinopterygii	521	230	261	1012	380	.	.	.	16	57.7
<i>Pagrus major</i>	Mitochondrial	Actinopterygii	520	230	261	1011	380	.	.	.	17	54.5
<i>Pamodon buchholzi</i>	Mitochondrial	Actinopterygii	518	230	261	1009	380	.	.	.	15.8	61.4
<i>Paralichthys olivaceus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	949	1713	2662	17.1	53.5

<i>Percopsis transmontana</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.1*	49.9
<i>Platichthys bicoloratus</i>	Mitochondrial	Actinopterygii	519	230	261	1010	380	.	.	.	16*	53.3
<i>Plecoglossus altivelis</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.5	49.4
<i>Polymixia japonica</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	804	.	.	16.5	57
<i>Polypterus ornatipinnis</i>	Mitochondrial	Actinopterygii	518	230	261	1009	380	.	1654	.	16.6	60.2
<i>Rondeletia loricata</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.5	54.4
<i>Salmo salar</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	946	1679	2625	16.7	54.7
<i>Salvelinus alpinus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.7	54.5
<i>Sardinops melanostictus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.9	51.3
<i>Saurida undosquamis</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	15.7*	51.5
<i>Scopelogadus mizolepis</i>	Mitochondrial	Actinopterygii	517	230	261	1008	384	.	.	.	16.4*	52.6
<i>Stephanolepis cirrhifer</i>	Mitochondrial	Actinopterygii	515	230	261	1006	381	.	.	.	16.3*	55.6
<i>Trachipterus trachipterus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.2*	55
<i>Trachurus japonicus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16.6	53.5
<i>Zenopsis nebulosus</i>	Mitochondrial	Actinopterygii	519	230	261	1010	380	.	.	.	16.1*	57.9
<i>Zeus faber</i>	Mitochondrial	Actinopterygii	520	230	261	1011	380	.	.	.	16.7	57.6
<i>Za cristatus</i>	Mitochondrial	Actinopterygii	516	230	261	1007	380	.	.	.	16*	56
<i>Plasmodium falciparum</i>	Mitochondrial	Alveolata	512	.	279	.	376	.	.	.	6	68.4
<i>Plasmodium reichenowi</i>	Mitochondrial	Alveolata	512	.	279	.	376	.	.	.	6	68.3
<i>Plasmodium yoelii</i>	Mitochondrial	Alveolata	477	.	.	.	376	.	.	.	6	68.9
<i>Theileria parva</i>	Mitochondrial	Alveolata	483	.	255	.	386	.	.	.	5.9	69.8
<i>Lambricus terrestris</i>	Mitochondrial	Annelida	513	228	259	1000	379	785	1244	2029	15	61.6

<i>Planireis dumerilii</i>	Mitochondrial	Annelida	511	230	259	1000	378	789	1171	1960	15.6	54.1
<i>Halocynthia roretzi</i>	Mitochondrial	Asciacea	517	225	264	1006	362	.	.	.	14.8	68.3
<i>Laqueus rubellus</i>	Mitochondrial	Brachiopoda	512	223	259	994	369	.	.	.	14	58.4
<i>Terebratalia transversa</i>	Mitochondrial	Brachiopoda	511	223	257	991	372	.	.	.	14.3	59.1
<i>Terebratulina retusa</i>	Mitochondrial	Brachiopoda	513	229	259	1001	380	817	.	.	15.5	57.2
<i>Branchiostoma floridae</i>	Mitochondrial	Branchiostomidae	515	230	262	1007	380	846	.	.	15.1	62.7
<i>Branchiostoma lanceolatum</i>	Mitochondrial	Branchiostomidae	515	239	262	1016	380	844	.	.	15.1	62.7
<i>Ixodes hexagonus</i>	Mitochondrial	Chelicerata	512	225	261	998	366	.	1287	.	14.5	72.7
<i>Limulus polyphemus</i>	Mitochondrial	Chelicerata	511	228	261	1000	377	.	1294	.	15	67.6
<i>Ornithodoros moubata</i>	Mitochondrial	Chelicerata	512	225	259	996	366	685	1211	1896	14.4	.
<i>Rhipicephalus sanguineus</i>	Mitochondrial	Chelicerata	512	225	257	994	358	.	1190	.	14.7	78
<i>Chlamydomonas eugametos</i>	Mitochondrial	Chlorophyta	509	.	.	.	380	1240	1916	3156	22.9	65.4
<i>Chlamydomonas reinhardtii</i>	Mitochondrial	Chlorophyta	505	.	.	.	381	1200	2323	3523	15.8	54.8
<i>Chlorogonium elongatum</i>	Mitochondrial	Chlorophyta	510	.	.	.	385	.	.	.	22.7	62.2
<i>Nephroselmis olivacea</i>	Mitochondrial	Chlorophyta	525	250	266	1041	391	1509	2760	4269	45.2	67.2
<i>Pedinomonas minor</i>	Mitochondrial	Chlorophyta	523	.	.	.	374	1178	1959	3137	25.2	77.8
<i>Prototheca wickerhamii</i>	Mitochondrial	Chlorophyta	515	258	262	1035	384	1680	3009	4689	55.3	74.2
<i>Scenedesmus obliquus</i>	Mitochondrial	Chlorophyta	535	149	.	.	399	.	3287	.	42.8	63.7
<i>Monosiga brevicollis</i>	Mitochondrial	Choanoflagellida	534	.	263	.	380	1595	2877	4472	76.6	.
<i>Chinnera monstrosa</i>	Mitochondrial	Chondrichthyes	519	230	261	1010	381	.	.	.	18.6	61.4
<i>Heterodontus francisci</i>	Mitochondrial	Chondrichthyes	518	230	261	1009	381	.	.	.	16.7	60.1
<i>Mustelus manazo</i>	Mitochondrial	Chondrichthyes	518	230	261	1009	381	953	1670	2623	16.7	61.7

<i>Raja radiata</i>	Mitochondrial	Chondrichthyes	518	230	261	1009	380	967	1678	2645	16.8	59.7
<i>Scyliorhinus canicula</i>	Mitochondrial	Chondrichthyes	517	230	261	1008	381	957	1601	2558	16.7	62
<i>Squalus acanthias</i>	Mitochondrial	Chondrichthyes	518	230	261	1009	382	951	1676	2627	16.7	61.2
<i>Paraneucium aurelia</i>	Mitochondrial	Ciliata	645	205	.	.	391	1688	2640	4328	40.5	58.8
<i>Terralymena pyriformis</i>	Mitochondrial	Ciliata	698	604	.	.	430	1660	2595	4255	47.3	78.7
<i>Aeropyra tenuis</i>	Mitochondrial	Cnidaria	533	247	262	1042	384	1175	2260	3435	18.3	62
<i>Merridium senile</i>	Mitochondrial	Cnidaria	530	248	262	1040	393	1081	2188	3269	17.4	61.9
<i>Latimeria chalumnae</i>	Mitochondrial	Coelacanthiformes	515	230	261	1006	380	983	1665	2648	16.4	58.3
<i>Artemia franciscana</i>	Mitochondrial	Crustacea	512	228	257	997	381	712	1153	1865	15.8	64.4
<i>Daphnia pulex</i>	Mitochondrial	Crustacea	512	226	262	1000	377	.	1314	.	15.3	62.3
<i>Pagurus longicarpus</i>	Mitochondrial	Crustacea	513	229	263	1005	378	.	.	.	15.6	71.2
<i>Panulirus japonicus</i>	Mitochondrial	Crustacea	511	229	263	1003	378	854	1354	2208	15.7	.
<i>Penaeus monodon</i>	Mitochondrial	Crustacea	512	229	263	1004	378	852	.	.	16	70.6
<i>Tigriopus japonicus</i>	Mitochondrial	Crustacea	509	227	265	1001	376	579	1033	1612	14.6	.
<i>Rhodomonas salina</i>	Mitochondrial	Cryptophyta	532	257	268	1057	388	1482	2662	4144	48.1	70.2
<i>Dictyostelium discoideum</i>	Mitochondrial	Dictyosteliida	.	.	435	.	389	1551	2871	4422	55.6	72.6
<i>Neoceratodus forsteri</i>	Mitochondrial	Dipnoi	518	224	261	1013	399	951	1679	2630	16.6	57.2
<i>Protopterus dolloi</i>	Mitochondrial	Dipnoi	515	230	261	1006	381	933	1591	2524	16.6	57.8
<i>Arbacia lixula</i>	Mitochondrial	Echinodermata	516	229	260	1005	380	886	1554	2440	15.7	62.5
<i>Asterina pectinifera</i>	Mitochondrial	Echinodermata	517	229	260	1006	380	896	1531	2427	16.3	61.3
<i>Balanoglossus carnosus</i>	Mitochondrial	Echinodermata	519	228	260	1007	382	815	1498	2313	15.7	51.4
<i>Florometra serratissima</i>	Mitochondrial	Echinodermata	517	229	260	1006	380	848	1511	2359	16	72.8

<i>Paracentromus lividus</i>	Mitochondrial	Echinodermata	517	229	260	1006	380	883	1549	2432	15.7	60.3
<i>Strongylocentrotus purpuratus</i>	Mitochondrial	Echinodermata	518	229	260	1007	385	878	1530	2408	15.7	59
<i>Leishmania tarentolae</i>	Mitochondrial	EuglenozoaHeterolo	549	210	284	1043	371	721	1171	1892	21	78.9
<i>Naegleria gruberi</i>	Mitochondrial	EuglenozoaHeterolo	633	270	297	1200	497	1578	2672	4250	49.8	77.8
<i>Trypanosoma brucei</i>	Mitochondrial	EuglenozoaHeterolo	549	213	288	1050	370	611	1246	1857	22	76.6
<i>Allomyces macrosporus</i>	Mitochondrial	Fungi	536	245	274	1055	382	1723	3121	4844	57.7	60.5
<i>Candida albicans</i>	Mitochondrial	Fungi	.	262	269	.	.	1461	3130	4591	40.4	.
<i>Hansenula wingei</i>	Mitochondrial	Fungi	535	247	269	1051	386	.	.	.	27.7	.
<i>Hyaloraphidium curvatum</i>	Mitochondrial	Fungi	505	231	262	998	366	1475	2840	4315	29.6	56.8
<i>Hypocrea jecorina</i>	Mitochondrial	Fungi	635	540	269	1444	427	1389	2977	4366	42.1	72.8
<i>Podospora anserina</i>	Mitochondrial	Fungi	541	250	269	1060	387	1980	3715	5695	100.3	69.9
<i>Rhizoglyphum sp136</i>	Mitochondrial	Fungi	505	253	275	1033	370	1327	2367	3694	68.8	77
<i>Saccharomyces castellii</i>	Mitochondrial	Fungi	534	249	269	1052	390	1592	3280	4872	25.8	.
<i>Saccharomyces cerevisiae</i>	Mitochondrial	Fungi	512	251	269	1032	386	1686	2716	4402	85.8	82.9
<i>Schizophyllum commune</i>	Mitochondrial	Fungi	527	252	268	1047	383	.	3575	.	49.7	78.1
<i>Schizosaccharomyces japonicus</i>	Mitochondrial	Fungi	530	250	269	1049	389	2018	4473	6491	80.1	.
<i>Schizosaccharomyces octosporus</i>	Mitochondrial	Fungi	524	248	269	1041	387	1396	2797	4193	44.2	.
<i>Schizosaccharomyces pombe</i>	Mitochondrial	Fungi	537	248	269	1054	387	1422	2822	4244	19.4	70
<i>Spizellomyces punctatus</i>	Mitochondrial	Fungi	496	266	264	1026	396	1212	2219	3431	61.3	67.9
<i>Yarrowia lipolytica</i>	Mitochondrial	Fungi	.	.	268	.	.	1590	2970	4560	47.9	77.3
<i>Lampetra fluvialilis</i>	Mitochondrial	Hyperoartia	517	229	261	1007	396	903	1616	2519	16.2	61.4
<i>Petromyzon marinus</i>	Mitochondrial	Hyperoartia	517	229	261	1007	396	900	1621	2521	16.2	62.7

<i>Epiplatys burgeri</i>	Mitochondrial	Hyperotreti	517	229	261	1007	385	.	.	.	17.2	66.5
<i>Myxine glutinosa</i>	Mitochondrial	Hyperotreti	517	229	261	1007	385	.	.	.	18.9	63.2
<i>Anopheles gambiae</i>	Mitochondrial	Insecta	514	228	262	1004	378	800	1325	2125	15.4	77.6
<i>Apis mellifera</i>	Mitochondrial	Insecta	521	225	259	1005	383	786	1266	2052	16.3	84.8
<i>Bombus mori</i>	Mitochondrial	Insecta	510	227	262	999	383	783	1375	2158	15.7	81.3
<i>Ceratitis capitata</i>	Mitochondrial	Insecta	511	228	262	1001	378	788	1222	2010	16	77.5
<i>Chrysomya chloropyga</i>	Mitochondrial	Insecta	512	229	262	1003	387	.	.	.	15.8	76.7
<i>Cochliomyia hominivorax</i>	Mitochondrial	Insecta	512	229	262	1003	378	786	1324	2110	16	76.9
<i>Crioceris duodecimpunctata</i>	Mitochondrial	Insecta	514	229	262	1005	378	999	.	.	15.9	76.9
<i>Drosophila mauritiana</i>	Mitochondrial	Insecta	512	228	262	1002	378	786	1322	2108	14.9	77.7
<i>Drosophila melanogaster</i>	Mitochondrial	Insecta	512	228	262	1002	378	786	1322	2108	14.9	82.2
<i>Drosophila sechellia</i>	Mitochondrial	Insecta	512	228	262	1002	378	786	1322	2108	14.9	77.6
<i>Drosophila yakuba</i>	Mitochondrial	Insecta	512	228	262	1002	378	789	1322	2111	16	78.6
<i>Heterodoxus macropus</i>	Mitochondrial	Insecta	512	219	263	994	366	.	.	.	14.7	79.3
<i>Locusta migratoria</i>	Mitochondrial	Insecta	511	227	263	1001	379	827	1314	2141	15.7	75.3
<i>Ostrinia furnacalis</i>	Mitochondrial	Insecta	511	227	263	1001	381	434	1338	1772	14.5	80.4
<i>Tetradontophora bielensis</i>	Mitochondrial	Insecta	511	227	262	1000	377	.	.	.	15.5	72.7
<i>Triatoma dimidiata</i>	Mitochondrial	Insecta	511	226	261	998	377	.	.	.	17	69.5
<i>Tribolium castaneum</i>	Mitochondrial	Insecta	.	227	261	.	379	.	.	.	15.9	71.7
<i>Malawimonas jakobiformis</i>	Mitochondrial	Malawimonadidae	485	273	274	1032	365	1572	2730	4302	47.3	73.9
<i>Albinaria caerulea</i>	Mitochondrial	Mollusca	509	224	259	992	367	758	1035	1793	14.1	70.7
<i>Cepaea nemoralis</i>	Mitochondrial	Mollusca	496	217	271	984	380	709	1214	1923	14.1	59.8

<i>Crassostrea gigas</i>	Mitochondrial	Mollusca	505	233	244	982	372	.	.	18.2	63.4
<i>Katharina tunicata</i>	Mitochondrial	Mollusca	513	229	259	1001	379	825	1275	15.5	69.4
<i>Loligo bleekeri</i>	Mitochondrial	Mollusca	510	230	259	999	379	781	1302	17.2	71.3
<i>Papa strigosa</i>	Mitochondrial	Mollusca	509	228	263	1000	375	728	1068	14.2	61.1
<i>Robostra europaea</i>	Mitochondrial	Mollusca	510	224	258	992	373	739	1108	14.5	.
<i>Venerupis philippinarum</i>	Mitochondrial	Mollusca	523	.	291	.	415	1248	1407	22.7	69.7
<i>Lithobius forficatus</i>	Mitochondrial	Myriapoda	511	227	261	999	377	.	.	15.7	68
<i>Narceus annularis</i>	Mitochondrial	Myriapoda	510	225	259	994	372	.	.	14.9	63.7
<i>Thyropysus DVL2001</i>	Mitochondrial	Myriapoda	510	227	261	998	372	.	.	15.1	67.8
<i>Physarum polycephalum</i>	Mitochondrial	Myxogastria	.	.	.	.	.	1513	2717	62.9	74.1
<i>Ancylostoma duodenale</i>	Mitochondrial	Nematoda	525	231	255	1011	370	696	957	13.7	76.7
<i>Ascaris suum</i>	Mitochondrial	Nematoda	525	232	255	1012	365	700	960	14.3	72
<i>Brugia malayi</i>	Mitochondrial	Nematoda	548	232	259	1039	362	671	977	13.7	.
<i>Caenorhabditis elegans</i>	Mitochondrial	Nematoda	525	231	255	1011	370	696	952	13.8	76.2
<i>Necator americanus</i>	Mitochondrial	Nematoda	524	231	255	1010	370	698	955	13.6	76.6
<i>Onchocerca volvulus</i>	Mitochondrial	Nematoda	548	232	259	1039	360	683	971	13.7	73.3
<i>Trichinella spiralis</i>	Mitochondrial	Nematoda	514	225	257	996	371	687	946	16.7	67
<i>Echinococcus granulosus</i>	Mitochondrial	Platyhelminthes	530	193	215	938	355	697	976	13.6	67.9
<i>Echinococcus multilocularis</i>	Mitochondrial	Platyhelminthes	535	193	215	943	355	703	982	13.7	69
<i>Fasciola hepatica</i>	Mitochondrial	Platyhelminthes	510	200	213	923	370	765	986	14.5	63.7
<i>Hymenolepis diminuta</i>	Mitochondrial	Platyhelminthes	517	192	216	925	365	708	966	13.9	71
<i>Paragonimus westermani</i>	Mitochondrial	Platyhelminthes	497	199	214	910	372	.	986	15	51.5

<i>Schistosoma japonicum</i>	Mitochondrial	Platyhelminthes	547	202	214	963	371	743	1003	1746	14.1	71
<i>Taenia crassiceps</i>	Mitochondrial	Platyhelminthes	537	194	214	945	357	721	959	1680	13.5	74
<i>Reclinomonas americana</i>	Mitochondrial	Reclinomonas	531	260	276	1067	390	1595	2751	4346	69	73.9
<i>Chondus crispus</i>	Mitochondrial	Rhodophyta	532	254	272	1058	381	1376	2583	3959	25.8	72.1
<i>Cyanidioschyzon meroletae</i>	Mitochondrial	Rhodophyta	533	261	272	1066	382	1542	2728	4270	32.2	72.9
<i>Porphyra purpurea</i>	Mitochondrial	Rhodophyta	537	253	281	1071	382	1407	2588	3995	36.8	66.5
<i>Cafeteria roenbergensis</i>	Mitochondrial	Stramenopiles	517	285	271	1073	379	1662	2595	4257	43.2	72.7
<i>Chrysothidymus synuroideus</i>	Mitochondrial	Stramenopiles	529	273	267	1069	389	1579	2586	4165	34.1	75.9
<i>Laminaria digitata</i>	Mitochondrial	Stramenopiles	533	.	272	.	390	1534	2713	4247	38	.
<i>Ochromonas danica</i>	Mitochondrial	Stramenopiles	528	265	267	1060	447	1562	2590	4152	41	73.8
<i>Phytophthora infestans</i>	Mitochondrial	Stramenopiles	492	258	305	1055	383	1503	2654	4157	38	77.7
<i>Pyraliella littoralis</i>	Mitochondrial	Stramenopiles	528	.	272	.	383	1514	2703	4217	58.5	62
<i>Thraustochytrium aureum</i>	Mitochondrial	Stramenopiles	503	250	262	1015	380	1346	2491	3837	48.8	69.9
<i>Aegilops columnaris</i>	Mitochondrial	Streptophyta	524	.	265	.	.	.	.	.	.	.
<i>Arabidopsis thaliana</i>	Mitochondrial	Streptophyta	527	260	265	1052	393	1935	2568	4503	366.9	55.2
<i>Beta vulgaris</i>	Mitochondrial	Streptophyta	524	260	.	.	.	1932	3336	5268	368.8	.
<i>Chaetosphaeridium globosum</i>	Mitochondrial	Streptophyta	526	250	264	1040	383	1490	2691	4181	56.6	.
<i>Marchantia polymorpha</i>	Mitochondrial	Streptophyta	522	251	265	1038	404	1975	2799	4774	186.6	57.6
<i>Mesosstigma viride</i>	Mitochondrial	Streptophyta	539	247	266	1052	399	1557	2847	4404	42.4	67.8
<i>Oenothera berteaiana</i>	Mitochondrial	Streptophyta	527	.	265	.	394	1900	3260	5160	195	.
<i>Oryza sativa</i>	Mitochondrial	Streptophyta	524	260	265	1049	397	.	.	.	200	.
<i>Solanum tuberosum</i>	Mitochondrial	Streptophyta	543	530	.	.	393	.	.	.	200	.

<i>Triticum aestivum</i>	Mitochondrial	Streptophyta	524	260	265	1049	398	1955	3467	5422	200	.
<i>Zea mays</i>	Mitochondrial	Streptophyta	528	260	265	1053	388	1967	3549	5516	570	.
<i>Alligator mississippiensis</i>	Mitochondrial	Tetrapoda	520	229	261	1010	386	766	1598	2364	16.6	57
<i>Artibeus jamaicensis</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	971	1559	2530	16.7	62.1
<i>Aythya americana</i>	Mitochondrial	Tetrapoda	516	228	261	1005	380	982	1604	2586	16.6	51.6
<i>Balaenoptera musculus</i>	Mitochondrial	Tetrapoda	516	227	261	1004	379	972	1575	2547	16.4	59.4
<i>Bos taurus</i>	Mitochondrial	Tetrapoda	514	227	267	1008	379	955	1571	2526	16.6	60.6
<i>Buteo buteo</i>	Mitochondrial	Tetrapoda	516	227	261	1004	380	972	.	.	18.9	55.1
<i>Caiman crocodylus</i>	Mitochondrial	Tetrapoda	523	229	261	1013	383	.	.	.	17.9	57.5
<i>Canis familiaris</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	954	1582	2536	16.7	60.3
<i>Casuaris casuaris</i>	Mitochondrial	Tetrapoda	516	228	261	1005	379	.	.	.	16.8	55.4
<i>Cavia porcellus</i>	Mitochondrial	Tetrapoda	513	227	261	1001	378	943	1593	2536	16.8	60.7
<i>Chalimolobus tuberculatus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	.	.	.	16.8	62.3
<i>Chelonia mydas</i>	Mitochondrial	Tetrapoda	515	228	261	1004	381	969	1612	2581	16.5	60.6
<i>Chrysemys picta</i>	Mitochondrial	Tetrapoda	515	228	262	1005	379	969	1614	2583	16.9	54.7
<i>Ciconia boyciana</i>	Mitochondrial	Tetrapoda	516	227	261	1004	380	968	1608	2576	17.6	53.7
<i>Corvus fragilis</i>	Mitochondrial	Tetrapoda	516	227	261	1004	380	975	1601	2576	16.9	55.7
<i>Dasyptus novemcinctus</i>	Mitochondrial	Tetrapoda	513	227	261	1001	379	966	1578	2544	17.1	61.1
<i>Didelphis virginiana</i>	Mitochondrial	Tetrapoda	516	227	261	1004	382	951	1570	2521	17.1	66.8
<i>Dinodon semicarinatus</i>	Mitochondrial	Tetrapoda	533	228	261	1022	372	934	1472	2406	17.2	60.1
<i>Dinornis giganteus</i>	Mitochondrial	Tetrapoda	516	228	261	1005	380	.	.	.	17.1	54.8
<i>Dogania subplana</i>	Mitochondrial	Tetrapoda	511	228	261	1000	379	.	.	.	17.3	61.3

<i>Dromaius novaehollandiae</i>	Mitochondrial	Tetrapoda	516	228	261	1005	379	965	1595	2560	16.7	57.1
<i>Echinorex gymnura</i>	Mitochondrial	Tetrapoda	514	227	261	1002	380	.	.	.	17.1	67
<i>Emeus crassus</i>	Mitochondrial	Tetrapoda	516	228	261	1005	380	.	.	.	17.1	54.7
<i>Equus asinus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	974	1580	2554	16.7	57.9
<i>Erinaceus europaeus</i>	Mitochondrial	Tetrapoda	515	228	261	1004	379	971	1563	2534	17.5	67.4
<i>Eudromia elegans</i>	Mitochondrial	Tetrapoda	516	228	260	1004	379	.	.	.	15.3	56.4
<i>Eumeces egregius</i>	Mitochondrial	Tetrapoda	515	229	261	1005	380	947	1534	2481	17.4	55.8
<i>Falco peregrinus</i>	Mitochondrial	Tetrapoda	516	227	261	1004	380	979	1599	2578	18.1	55.1
<i>Gallus gallus</i>	Mitochondrial	Tetrapoda	515	227	261	1003	380	976	1621	2597	16.8	54
<i>Gorilla gorilla</i>	Mitochondrial	Tetrapoda	513	227	261	1001	380	949	1558	2507	16.4	56.2
<i>Halichoerus grypus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	960	1569	2529	16.8	58.3
<i>Hippopotamus amphibius</i>	Mitochondrial	Tetrapoda	515	227	261	1003	379	968	1562	2530	16.4	57.4
<i>Homo sapiens</i>	Mitochondrial	Tetrapoda	513	227	261	1001	380	954	1559	2513	16.6	55.6
<i>Hylabates lar</i>	Mitochondrial	Tetrapoda	513	227	261	1001	380	951	1558	2509	16.5	54.5
<i>Iguana iguana</i>	Mitochondrial	Tetrapoda	515	229	261	1005	379	.	.	.	16.6	54.8
<i>Isodon macrourus</i>	Mitochondrial	Tetrapoda	513	228	261	1002	381	949	.	.	16.9	65.7
<i>Lama pacos</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	968	1560	2528	16.7	59.2
<i>Loxodonta africana</i>	Mitochondrial	Tetrapoda	515	228	262	1005	378	960	1565	2525	16.9	61.2
<i>Macaca sylvanus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	380	.	.	.	16.6	56.9
<i>Macropus robustus</i>	Mitochondrial	Tetrapoda	513	227	261	1001	381	949	1572	2521	16.9	60.8
<i>Merrensiella luschni</i>	Mitochondrial	Tetrapoda	519	229	261	1009	380	.	.	.	16.7	61.4
<i>Mus musculus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	381	955	1582	2537	16.3	63.2

<i>Myoxus glis</i>	Mitochondrial	Tetrapoda	513	227	261	1001	379	954	1556	2510	16.6	63.8
<i>Nycticebus coucang</i>	Mitochondrial	Tetrapoda	513	227	261	1001	379	.	.	.	16.8	59.3
<i>Ochotona collaris</i>	Mitochondrial	Tetrapoda	513	227	261	1001	379	.	.	.	17	56.5
<i>Oryzteropus afer</i>	Mitochondrial	Tetrapoda	515	227	261	1003	379	956	1575	2531	16.8	62
<i>Oryzolagus cumiculus</i>	Mitochondrial	Tetrapoda	513	227	261	1001	379	957	1579	2536	17.2	59.8
<i>Ovis aries</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	958	1574	2532	16.6	61.1
<i>Pan troglodytes</i>	Mitochondrial	Tetrapoda	513	227	261	1001	380	949	1558	2507	16.6	56.3
<i>Papio hamadryas</i>	Mitochondrial	Tetrapoda	513	227	261	1001	380	947	1570	2517	16.5	56.3
<i>Pelomedusa subrufa</i>	Mitochondrial	Tetrapoda	514	229	261	1004	380	968	1604	2572	16.8	61.3
<i>Phoca vitulina</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	961	1565	2526	16.8	58.3
<i>Physeter catodon</i>	Mitochondrial	Tetrapoda	516	227	261	1004	379	970	1588	2558	16.4	56.9
<i>Pipistrellus abramus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	964	1563	2527	17	63.7
<i>Pongo pygmaeus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	380	953	1560	2513	16.5	54.1
<i>Pterocentria pennata</i>	Mitochondrial	Tetrapoda	516	231	260	1007	379	.	.	.	16.7	52.9
<i>Peropus dasymallus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	.	.	.	16.7	58.4
<i>Rana nigromaculata</i>	Mitochondrial	Tetrapoda	512	229	261	1002	380	.	.	.	17.8	56.9
<i>Rattus norvegicus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	380	957	1559	2516	16.3	61.3
<i>Rhea americana</i>	Mitochondrial	Tetrapoda	516	229	261	1006	379	963	1585	2548	16.7	53
<i>Rhinoceros unicornis</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	971	1577	2548	16.8	59.8
<i>Rhinolophus pumilus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	.	.	.	16.9	57.4
<i>Sciurus vulgaris</i>	Mitochondrial	Tetrapoda	513	227	261	1001	379	967	1574	2541	16.5	63
<i>Smithornis sharpei</i>	Mitochondrial	Tetrapoda	516	227	261	1004	380	976	.	.	17.3	54.7

<i>Sorex unguiculatus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	.	.	.	17.1	61.3
<i>Soriculus fundus</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	.	.	.	17.5	63.5
<i>Struthio camelus</i>	Mitochondrial	Tetrapoda	516	229	261	1006	379	966	1578	2544	16.6	55.4
<i>Sus scrofa</i>	Mitochondrial	Tetrapoda	514	231	267	1012	379	962	1571	2533	16.7	60.5
<i>Talpa europaea</i>	Mitochondrial	Tetrapoda	514	227	261	1002	379	972	1575	2547	16.9	61.1
<i>Tarsius bancanus</i>	Mitochondrial	Tetrapoda	513	227	261	1001	379	950	.	.	16.9	61
<i>Thryonomys swinderianus</i>	Mitochondrial	Tetrapoda	514	226	261	1001	379	790	.	.	16.6	63.8
<i>Tiannus major</i>	Mitochondrial	Tetrapoda	516	228	261	1005	379	.	.	.	16.7	57
<i>Trichosurus vulpecula</i>	Mitochondrial	Tetrapoda	515	230	261	1006	381	947	.	.	17.2	62.7
<i>Tupaia belangeri</i>	Mitochondrial	Tetrapoda	513	227	261	1001	379	.	.	.	16.8	59.3
<i>Typhlonectes natans</i>	Mitochondrial	Tetrapoda	517	230	261	1008	380	934	1571	2505	17	54.9
<i>Vidia chalybeata</i>	Mitochondrial	Tetrapoda	516	227	261	1004	380	978	1600	2578	16.9	54.2
<i>Volamys tikuchii</i>	Mitochondrial	Tetrapoda	514	227	261	1002	380	.	.	.	16.3	58.7
<i>Xenopus laevis</i>	Mitochondrial	Tetrapoda	518	229	260	1007	380	946	1631	2577	17.6	63