

Supplementary Tables

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Table S1: Our dataset of public domain genomes

Table S1: Shows the systematic name, common name, genome version, source and submitter for the 759 genomes used in this study. Almost all are in the public domain; only four genomes were acquired through collaborators, these are marked ‘Private’ in the source column. Headings indicate Kingdom (METAZOA, FUNGI or VIRIDIPLANTAE), followed by Class (e.g. MAMMALIA) and Order (e.g. Monotremata).

No	Systematic Name	Common Name	Genome Version	Source	Submitter
METAZOA					
MAMMALIA					
Monotremata					
1	<i>Tachyglossus aculeatus</i>	Echidna	Tachyglossus	Private	-
2	<i>Ornithorhynchus anatinus</i>	Platypus	ornAna1	UCSC	WashU
Marsupialia					
3	<i>Monodelphis domestica</i>	Opossum	monDom5	UCSC	GAT
4	<i>Macropus eugenii</i>	Tammar wallaby	Meug_1.1	NCBI	Tammar Wallaby Genome Sequencing Consortium
5	<i>Sarcophilus harrisii</i>	Tasmanian devil	sarHar1	UCSC	WTSI
Xenarthra					
6	<i>Dasypus novemcinctus</i>	Armadillo	Dasnov3.0	NCBI	BCM
7	<i>Choloepus hoffmanni</i>	Sloth	choHof1	UCSC	Broad
Afrotheria					
8	<i>Chrysochloris asiatica</i>	Cape golden mole	ChrAsi1.0	NCBI	Broad
9	<i>Echinops telfairi</i>	Tenrec	EchTel2.0	NCBI	Broad
10	<i>Orycteropus afer afer</i>	Aardvark	OryAfe1.0	NCBI	Broad
11	<i>Elephantulus edwardii</i>	Cape elephant shrew	EleEdw1.0	NCBI	Broad
12	<i>Trichechus manatus latirostris</i>	Manatee	TriManLat1.0	NCBI	Broad
13	<i>Procavia capensis</i>	Rock hyrax	proCap1	UCSC	BCM
14	<i>Loxodonta africana</i>	Elephant	LAv4	Private	-
Insectivora					
15	<i>Erinaceus europaeus</i>	Hedgehog	EriEur2.0	NCBI	Broad
16	<i>Sorex araneus</i>	Common shrew	SorAra2.0	NCBI	Broad
17	<i>Condylura cristata</i>	Star-nosed mole	ConCri1.0	NCBI	Broad
Chiroptera					
18	<i>Pteropus alecto</i>	Black flying fox	ASM32557v1	NCBI	BGI
19	<i>Pteropus vampyrus</i>	Megabat	pteVam1	UCSC	BCM
20	<i>Eidolon helvum</i>	Straw-coloured fruit bat	ASM46528v1	NCBI	QMUL
21	<i>Megaderma lyra</i>	Greater false vampire bat	ASM46534v1	NCBI	QMUL
22	<i>Rhinolophus ferrumequinum</i>	Greater horseshoe bat	ASM46549v1	NCBI	QMUL

No	Systematic Name	Common Name	Genome Version	Source	Submitter
23	<i>Pteronotus parnellii</i>	Parnells mustached bat	ASM46540v1	NCBI	QMUL
24	<i>Eptesicus fuscus</i>	Big brown bat	EptFus1.0	NCBI	Broad
25	<i>Myotis brandtii</i>	Brandts bat	ASM41265v1	NCBI	BGI
26	<i>Myotis davidii</i>	Mouse-eared bat	ASM32734v1	NCBI	BGI
27	<i>Myotis lucifugus</i>	Microbat	Myoluc2.0	NCBI	Broad
Perissodactyla					
28	<i>Ceratotherium simum simum</i>	White rhino	CerSimSim1.0	NCBI	Broad
29	<i>Equus przewalskii</i>	Przewalski horse	Burgud	NCBI	IMAU
30	<i>Equus caballus</i> (Thoroughbred)	Thoroughbred horse	equCab2	UCSC	GAT
31	<i>Equus caballus</i> (Mongolian)	Mongolian horse	Ajinai1.0	NCBI	IMAU
Pholidota					
32	<i>Manis pentadactyla</i>	Chinese pangolin	M_pentadactyla-1.1.1	NCBI	WashU
Carnivora					
33	<i>Felis catus</i>	Cat	felCat5	UCSC	International Cat Genome Sequencing Consortium
34	<i>Panthera tigris altaica</i>	Siberian tiger	PanTig1.0	NCBI	Personal Genomics Institute
35	<i>Canis lupus familiaris</i>	Dog	CanFam3.1	NCBI	Dog Genome Sequencing Consortium
36	<i>Ursus maritimus</i>	Polar bear	UrsMar_1.0	NCBI	BGI
37	<i>Ailuropoda melanoleuca</i>	Panda	ailMel1	UCSC	BGI
38	<i>Leptonychotes weddellii</i>	Weddell seal	LepWed1.0	NCBI	Broad
39	<i>Odobenus rosmarus divergens</i>	Walrus	Oros_1.0	NCBI	Marine Mammals
40	<i>Mustela putorius furo</i>	Ferret	MusPutFur1.0	NCBI	Ferret Genome Sequencing Consortium
Cetartiodactyla					
41	<i>Camelus dromedarius</i>	Dromedary	PRJNA234474_Ca_dromedarius.V1.0	NCBI	King Abdulaziz City for Science and Technology
42	<i>Camelus ferus</i>	Bactrian camel	CB1	NCBI	Bactrian Camels Genome Sequencing and Analysis Consortium
43	<i>Vicugna pacos</i>	Alpaca	Vicugna_pacos-2.0.1	NCBI	WashU

No	Systematic Name	Common Name	Genome Version	Source	Submitter
44	<i>Sus scrofa</i> (Duroc)	Duroc pig	Sscrofa10.2	NCBI	Swine Genome Sequencing Consortium
45	<i>Sus scrofa</i> (Tibetan)	Tibetan pig	Tibetan_Pig_v1.0	NCBI	Novogene
46	<i>Sus scrofa</i> (Ellegaard Gottingen minipig)	Minipig	SscrofaMinipig	NCBI	GlaxoSmithK-line
47	<i>Balaenoptera acutorostrata scammoni</i>	Minke whale	BalAcu1.0	NCBI	Korea Ocean Research & Development Institute
48	<i>Physeter catodon</i>	Sperm whale	Physeter_macrocephalus-2.0.2	NCBI	AGM
49	<i>Lipotes vexillifer</i>	Baiji (Chinese dolphin)	Lipotes_vexillifer_v1	NCBI	BGI
50	<i>Tursiops truncatus</i>	Bottlenose dolphin	Ttru_1.4	NCBI	BCM
51	<i>Orcinus orca</i>	Killer whale	Oorc_1.1	NCBI	Marine Mammals
52	<i>Pantholops hodgsonii</i>	Tibetan antelope	PHO1.0	NCBI	BGI
53	<i>Capra hircus</i>	Goat	CHIR_1.0	NCBI	International Goat Genome Consortium
54	<i>Ovis aries</i> (Texel)	Domestic sheep	oviAri3	UCSC	International Sheep Genome Consortium
55	<i>Ovis aries musimon</i>	Wild sheep	Oori1	NCBI	EBI
56	<i>Bubalus bubalis</i>	Water buffalo	UMD_CASPUR_WB_2.0	NCBI	Mary
57	<i>Bison bison bison</i>	Bison	Bison_UMD1.0	NCBI	Mary
58	<i>Bos mutus</i>	Yak	BosGru_v2.0	NCBI	BGI
59	<i>Bos indicus</i>	Zebu	Bos.indicus_1.0	NCBI	Genoa Biotecnologia SA
60	<i>Bos taurus</i>	Cow	bosTau6	UCSC	Mary
Lagomorpha					
61	<i>Ochotona princeps</i>	American pika	OchPri3.0	NCBI	Broad
62	<i>Oryctolagus cuniculus</i>	Rabbit	oryCun2	UCSC	GSP
Rodentia					
63	<i>Ictidomys tridecemlineatus</i>	Squirrel	SpeTri2.0	NCBI	Broad
64	<i>Heterocephalus glaber</i>	Naked mole-rat	HetGla_female_1.0	NCBI	Broad
65	<i>Fukomys damarensis</i>	Damaraland mole-rat	DMR_v1.0	NCBI	BGI
66	<i>Cavia aperea</i>	Brazilian guinea pig	CavAp1.0	NCBI	Leibniz Institute for Zoo and Wildlife research
67	<i>Cavia porcellus</i>	Guinea pig	cavPor3	UCSC	GSP
68	<i>Chinchilla lanigera</i>	Chinchilla	ChiLan1.0	NCBI	Broad

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69	<i>Octodon degus</i>	Degu	OctDeg1.0	NCBI	Broad
70	<i>Dipodomys ordii</i>	Kangaroo rat	dipOrd1	UCSC	BCM
71	<i>Jaculus jaculus</i>	Lesser Egyptian jerboa	JacJac1.0	NCBI	Broad
72	<i>Nannospalax galili</i>	Blind mole	S.galili_v1.0	NCBI	BGI
73	<i>Mesocricetus auratus</i>	Golden hamster	MesAur1.0	NCBI	Broad
74	<i>Cricetulus griseus</i>	Chinese hamster	CriGri.1.0	NCBI	BGI
75	<i>Microtus ochrogaster</i>	Prairie vole	MicOch1.0	NCBI	Broad
76	<i>Peromyscus maniculatus bairdii</i>	Deer mouse	Pman.1.0	NCBI	BCM
77	<i>Rattus norvegicus</i>	Rat	Rnor_5.0	NCBI	Rat Genome Sequencing Consortium
78	<i>Mus musculus</i>	Mouse	GRCm38.p2	NCBI	GRC
Scandentia					
79	<i>Tupaia belangeri</i>	Tree shrew	tupBel1	UCSC	Broad
80	<i>Tupaia chinensis</i>	Chinese tree shrew	TupChi.1.0	NCBI	BGI
Primates					
81	<i>Galeopterus variegatus</i>	Flying lemur	G_variegatus-3.0.2	NCBI	WashU
82	<i>Otolemur garnettii</i>	Bushbaby	OtoGar3	NCBI	Broad
83	<i>Microcebus murinus</i>	Mouse lemur	micMur1	UCSC	GSP
84	<i>Tarsius syrichta</i>	Tarsier	Tarsius_syrichta-2.0.1	NCBI	WashU
85	<i>Callithrix jacchus</i>	Marmoset	Callithrix_jacchus-3.2	NCBI	WashU
86	<i>Saimiri boliviensis boliviensis</i>	Squirrel monkey	SaiBol1.0	NCBI	Broad
87	<i>Rhinopithecus roxellana</i>	Snub-nosed monkey	Rrox_v1	NCBI	Novogene
88	<i>Nasalis larvatus</i>	Proboscis monkey	Charlie1.0	NCBI	Proboscis Monkey Functional Genome Consortium
89	<i>Chlorocebus sabaeus</i>	Green monkey	Chlorocebus_sabeus 1.1	NCBI	Vervet Genomics Consortium
90	<i>Macaca fascicularis</i>	Crab-eating macaque	Macaca_fascicularis_5.0	NCBI	WashU
91	<i>Macaca mulatta</i>	Rhesus macaque	rheMac3	UCSC	BGI
92	<i>Papio anubis</i>	Baboon	Panu.2.0	NCBI	BCM
93	<i>Nomascus leucogenys</i>	Gibbon	nomLeu3	UCSC	Gibbon Genome Sequencing Consortium
94	<i>Pongo abelii</i>	Sumatran orangutan	P_pygmaeus.2.0.2	NCBI	Orangutan Genome Sequencing Consortium
95	<i>Gorilla gorilla gorilla</i>	Gorilla	gorGor3.1	NCBI	WTSI

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96	<i>Pan paniscus</i>	Bonobo	panpan1	NCBI	MP
97	<i>Pan troglodytes</i>	Chimp	panTro4	UCSC	Chimpanzee Sequencing and Analysis Consortium
98	<i>Homo sapiens</i>	Human	GRCh37 (hg19)	NCBI	GRC
SAUROPSIDA					
Testudines					
99	<i>Apalone spinifera</i>	Spiny softshell turtle	ASM38561v1	NCBI	WUGSC
100	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	PelSin_1.0	NCBI	P. sinensis Genome Project Consortium
101	<i>Chelonia mydas</i>	Green sea turtle	CheMyd_1.0	NCBI	BGI
102	<i>Chrysemys picta bellii</i>	Painted turtle	chrPic1	UCSC	Painted Turtle Genome Sequencing Consortium
Struthioniformes					
103	<i>Struthio camelus australis</i>	Ostrich	ASM69896v1	NCBI	BGI
Tinamiformes					
104	<i>Tinamus guttatus</i>	Tinamou	ASM70537v2	NCBI	BGI
Anseriformes					
105	<i>Anas platyrhynchos</i>	Mallard	BGI_duck_1.0	NCBI	State Key Laboratory for Agrobiotechnology, China Agricultural University, Beijing
Galliformes					
106	<i>Lyrurus tetrrix tetrrix</i>	Black grouse	tetTet1	NCBI	UU
107	<i>Gallus gallus</i>	Chicken	galGal4	UCSC	International Chicken Genome Consortium
108	<i>Coturnix japonica</i>	Japanese quail	Coja_1.0	NCBI	Tokyo University of Agriculture
109	<i>Meleagris gallopavo</i>	Turkey	melGal1	UCSC	Turkey Genome Consortium
110	<i>Colinus virginianus</i>	Bobwhite	NB1.1	NCBI	TAMU
Passeriformes					
111	<i>Acanthisitta chloris</i>	Rifleman	ASM69581v1	NCBI	BGI
112	<i>Manacus vitellinus</i>	Manakin	ASM69201v1	NCBI	BGI

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113	<i>Zonotrichia albicollis</i>	White-throated sparrow	Zonotrichia_albicollis-1.0.1	NCBI	White-throated Sparrow Consortium
114	<i>Geospiza fortis</i>	Medium ground finch	geoFor1	UCSC	BGI
115	<i>Serinus canaria</i>	Atlantic canary	SCA1	NCBI	MP
116	<i>Taeniopygia guttata</i>	Zebra finch	taeGut1	UCSC	WashU
117	<i>Ficedula albicollis</i>	Collared flycatcher	FicAlb1.5	NCBI	UU
118	<i>Pseudopodoces humilis</i>	Ground tit	PseHum1.0	NCBI	BGI
119	<i>Corvus brachyrhynchos</i>	American crow	ASM69197v1	NCBI	BGI
120	<i>Corvus cornix cornix</i>	Hooded crow	Hooded_Crow_genome	NCBI	UU
Psittaciformes					
121	<i>Ara macao</i>	Scarlet macaw	SMACv1.1	NCBI	TAMU
122	<i>Amazona vittata</i>	Puerto Rican parrot	AV1	NCBI	Puerto Rican Parrot Genome Project
123	<i>Melopsittacus undulatus</i>	Budgerigar	melUnd1	UCSC	WashU
124	<i>Nestor notabilis</i>	Kea	ASM69687v1	NCBI	BGI
Falconiformes					
125	<i>Falco cherrug</i>	Saker falcon	F_cherrug_v1.0	NCBI	BGI
126	<i>Falco peregrinus</i>	Peregrine falcon	F_peregrinus_v1.0	NCBI	BGI
Cariamiformes					
127	<i>Cariama cristata</i>	Seriema	ASM69053v1	NCBI	BGI
Coraciiformes					
128	<i>Merops nubicus</i>	Bee eater	ASM69184v1	NCBI	BGI
Piciformes					
129	<i>Picoides pubescens</i>	Woodpecker	ASM69900v1	NCBI	BGI
Bucerotiformes					
130	<i>Buceros rhinoceros silvestris</i>	Hornbill	ASM71030v1	NCBI	BGI
Trogoniformes					
131	<i>Apaloderma vittatum</i>	Trogon	ASM70340v1	NCBI	BGI
Leptosomiformes					
132	<i>Leptosomus discolour</i>	Cuckoo roller	ASM69178v1	NCBI	BGI
Accipitriformes					
133	<i>Haliaeetus albicilla</i>	White-tailed eagle	ASM69140v1	NCBI	BGI
134	<i>Haliaeetus leucocephalus</i>	Bald eagle	Haliaeetus_leucocephalus-4.0	NCBI	The Bald Eagle Consortium
135	<i>Aquila chrysaetos canadensis</i>	Golden eagle	Aquila_chrysaetos-1.0.2	NCBI	WashU
136	<i>Cathartes aura</i>	Turkey vulture	ASM69994v1	NCBI	BGI
Strigiformes					
137	<i>Tyto alba</i>	Barn owl	ASM68720v1	NCBI	BGI
Coliiformes					
138	<i>Colius striatus</i>	Mousebird	ASM69071v1	NCBI	BGI
Charadriiformes					

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139	<i>Charadrius vociferus</i>	Killdeer	ASM70802v2	NCBI	BGI
Gruiformes					
140	<i>Balearica regulorum gibbericeps</i>	Grey crane	ASM70989v1	NCBI	BGI
141	<i>Chlamydotis macqueenii</i>	MacQueen's bustard	ASM69519v1	NCBI	BGI
Cuculiformes					
142	<i>Cuculus canorus</i>	Common cuckoo	ASM70932v1	NCBI	BGI
Procellariiformes					
143	<i>Fulmarus glacialis</i>	Fulmar	ASM69083v1	NCBI	BGI
Sphenisciformes					
144	<i>Aptenodytes forsteri</i>	Emperor penguin	ASM69914v1	NCBI	BGI
145	<i>Pygoscelis adeliae</i>	Adelie penguin	ASM69910v1	NCBI	BGI
Pelecaniformes					
146	<i>Phalacrocorax carbo</i>	Black cormorant	ASM70892v1	NCBI	BGI
147	<i>Pelecanus crispus</i>	Pelican	ASM68737v1	NCBI	BGI
148	<i>Nipponia nippon</i>	Ibis	ASM70822v1	NCBI	BGI
149	<i>Egretta garzetta</i>	Egret	ASM68718v1	NCBI	College of Medicine and Forensics, Xi'an Jiaotong University
150	<i>Phaethon lepturus</i>	Tropicbird	ASM68728v1	NCBI	BGI
Gaviiformes					
151	<i>Gavia stellata</i>	Loon	ASM69087v1	NCBI	BGI
Musophagiformes					
152	<i>Tauraco erythrolophus</i>	Turaco	ASM70936v1	NCBI	BGI
Opisthocomiformes					
153	<i>Opisthocomus hoazin</i>	Hoatzin	ASM69207v1	NCBI	BGI
Columbiformes					
154	<i>Columba livia</i>	Rock dove	Cliv_1.0	NCBI	BGI
Pteroclidiformes					
155	<i>Pterocles gutturalis</i>	Sandgrouse	ASM69924v1	NCBI	BGI
Apodiformes					
156	<i>Calypte anna</i>	Anna's hummingbird	ASM69908v1	NCBI	BGI
157	<i>Chaetura pelagica</i>	Chimney swift	ChaPel_1.0	NCBI	BGI
Caprimulgiformes					
158	<i>Caprimulgus carolinensis</i>	Chuck-will's-widow	ASM70074v1	NCBI	BGI
Eurypygiiformes					
159	<i>Eurypyga helias</i>	Sunbittern	ASM69077v1	NCBI	BGI
Mesitornithiformes					
160	<i>Mesitornis unicolor</i>	Mesite	ASM69576v1	NCBI	BGI
Podicipediformes					
161	<i>Podiceps cristatus</i>	Grebe	ASM69954v1	NCBI	BGI
Phoenicopteriformes					

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162	<i>Phoenicopiterus ruber ruber</i>	Flamingo	ASM68726v1	NCBI	BGI
Crocodylia					
163	<i>Alligator mississippiensis</i>	American alligator	allMis1	UCSC	ICGWG
164	<i>Alligator sinensis</i>	Chinese alligator	ASM45574v1	NCBI	BGI
165	<i>Crocodylus porosus</i>	Saltwater crocodile	Cpor.2.0	NCBI	ICGWG
166	<i>Gavialis gangeticus</i>	Gharial crocodile	ggan_v0.2	NCBI	ICGWG
Squamata					
167	<i>Pogona vitticeps</i>	Bearded dragon	Pogona_vitticeps.male	Private (Terry)	-
168	<i>Anolis carolinensis</i>	Anole lizard	anoCar2	UCSC	Broad
169	<i>Vipera berus berus</i>	Common European viper	Vber.be.1.0	NCBI	BCM-HGSC
170	<i>Crotalus mitchellii pyrrhus</i>	Pit viper	CrotMitch1.0	NCBI	Reed College
171	<i>Ophiophagus hannah</i>	King cobra	OphHan1.0	NCBI	Naturalis Biodiversity Center
172	<i>Python bivittatus</i>	Burmese python	Python_molurus_bivittatus-5.0.2	NCBI	The Consortium for Comparative Genomics, UC Denver
AMPHIBIA					
Anura					
173	<i>Nanorana parkeri</i>	Tibetan frog	ASM93562v1	NCBI	BGI
174	<i>Xenopus laevis</i>	African clawed frog	Xenopus_laevis_v2	NCBI	International Xenopus Sequencing Consortium
175	<i>Xenopus tropicalis</i>	Western clawed frog	Xtropicalis_v7	NCBI	JGI
NEOPTERYGII					
Lepisosteiformes					
176	<i>Lepisosteus oculatus</i>	Spotted gar	LepOcu1	NCBI	Broad
Anguilliformes					
177	<i>Anguilla anguilla</i>	European eel	Anguilla_anguilla_v1_09_nov_10	NCBI	ZF-S
178	<i>Anguilla japonica</i>	Japanese eel	japanese_eel_genome_v1.25_oct.2011_japonica_c401b400k25m200_sspacepremium_k3a02n24_extra.final.scaffolds	NCBI	ZF-S
Cypriniformes					
179	<i>Danio rerio</i>	Zebrafish	danRer7	UCSC	WTSI

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Characiformes					
180	<i>Astyanax mexicanus</i>	Mexican tetra	Astyanax_mexicanus-1.0.2	NCBI	AGM
Beloniformes					
181	<i>Oryzias latipes</i>	Medaka	ASM31367v1	NCBI	Medaka genome sequencing project
Cyprinodontiformes					
182	<i>Poecilia formosa</i>	Amazon molly	Poecilia_formosa-5.1.2	NCBI	AGM
183	<i>Xiphophorus maculatus</i>	Southern platyfish	Xiphophorus_maculatus-4.4.2	NCBI	The Genome Institute, Washington University at St. Louis
184	<i>Fundulus heteroclitus</i>	Mummichog	Fundulus_heteroclitus-3.0.2	NCBI	WashU
Tetraodontiformes					
185	<i>Takifugu flavidus</i>	Yellowbelly pufferfish	version 1 of Takifugu flavidus genome	NCBI	IOCAS
186	<i>Takifugu rubripes</i>	Fugu	fr3	UCSC	The Fugu Genome Sequencing Consortium
187	<i>Tetraodon nigroviridis</i>	Tetraodon	tetNig2	UCSC	Genoscope
Pleuronectiformes					
188	<i>Cynoglossus semilaevis</i>	Tongue sole	Cse.v1.0	NCBI	BGI
Perciformes					
189	<i>Haplochromis burtoni</i>	Burton's haplo	AstBur1.0	NCBI	Broad
190	<i>Pundamilia nyererei</i>	Flameback cichlid	PunNye1.0	NCBI	Broad
191	<i>Maylandia zebra</i>	Zebra mbuna	MetZeb1.1	NCBI	Broad
192	<i>Neolamprologus brichardi</i>	Fairy cichlid	NeoBri1.0	NCBI	Broad
193	<i>Oreochromis niloticus</i>	Nile tilapia	oreNil2	UCSC	Broad
194	<i>Sebastes nigrocinctus</i>	Tiger rockfish	Snig1.0	NCBI	USC
195	<i>Sebastes rubrivinctus</i>	Flag rockfish	SRub1.0	NCBI	USC
196	<i>Gasterosteus aculeatus</i>	Stickleback	gasAcu1	UCSC	Broad
Gadiformes					
197	<i>Gadus morhua</i>	Atlantic cod	gadMor1	UCSC	Genofisk
CHONDRICHTHYES					
Chimaeriformes					
198	<i>Callorhynchus milii</i>	Australian ghostshark	Callorhynchus_milii-6.1.3	NCBI	IMCB
Carcharhiniformes					
199	<i>Carcharhinus brachyurus</i>	Copper shark	shark_ass	Private (Terry)	-
ECDYSOZOA					
Ephemeroptera					

No	Systematic Name	Common Name	Genome Version	Source	Submitter
200	<i>Ephemera danica</i>	Green drake	Edan_1.0	NCBI	i5k
Odonata					
201	<i>Ladona fulva</i>	Dragonfly	Lful_1.0	NCBI	i5k
Phthiraptera					
202	<i>Pediculus humanus corporis</i>	Body louse	JCVI.LOUSE_1.0	NCBI	JCVI
Thysanoptera					
203	<i>Frankliniella occidentalis</i>	Flower thrips	Focc_1.0	NCBI	i5k
Hemiptera					
204	<i>Diaphorina citri</i>	Asian citrus psyllid	Diaci psyllid genome assembly version 1.1	NCBI	International Psyllid Genome Consortium
205	<i>Pachypsylla venusta</i>	Petiolegall psyllid	Pven_1.0	NCBI	i5k
206	<i>Acyrtosiphon pisum</i>	Pea aphid	Acyr_2.0	NCBI	BCM
207	<i>Nilaparvata lugens</i>	Brown planthopper	NilLug1.0	NCBI	Nilaparvata lugens Genome Consortium
208	<i>Oncopeltus fasciatus</i>	Milkweed bug	Ofas_1.0	NCBI	BCM-HGSC i5k
209	<i>Rhodnius prolixus</i>	Assassin bug	Rhodnius_prolixus-3.0.1	NCBI	WashU
210	<i>Cimex lectularius</i>	Bed bug	Clec_1.0	NCBI	i5k
Coleoptera					
211	<i>Onthophagus taurus</i>	Taurus scarab	Otau_1.0	NCBI	i5k
212	<i>Agilus planipennis</i>	Emerald ash borer	Apla_1.0	NCBI	BCM-HGSC i5k
213	<i>Tribolium castaneum</i>	Red flour beetle	Tcas_3.0	NCBI	BCM
214	<i>Anoplophora glabripennis</i>	Asian long-horned beetle	Agla_1.0	NCBI	i5k
215	<i>Leptinotarsa decemlineata</i>	Colorado potato beetle	Ldec_1.5	NCBI	i5k
216	<i>Dendroctonus ponderosae</i>	Mountain pine beetle	DendPond_male_1.0	NCBI	The Tria Project: Mountain Pine Beetle System Genomics
Strepsiptera					
217	<i>Mengenilla moldrzyki</i>	Twisted-wing parasite	Memo_1.0	NCBI	Zoologisches Forschungsmuseum Alexander Koenig
Diptera					
218	<i>Aedes aegypti</i>	Yellow fever mosquito	AaegL2	NCBI	TIGR
219	<i>Culex quinquefasciatus</i>	Southern house mosquito	CulPip1.0	NCBI	Broad
220	<i>Anopheles albimanus</i>	-	Anop_albi_ALBI9_A_V1	NCBI	Broad

No	Systematic Name	Common Name	Genome Version	Source	Submitter
221	<i>Anopheles arabiensis</i>	-	Anop_arab_DONG5_A_V1	NCBI	Broad
222	<i>Anopheles atroparvus</i>	-	Anop_atro_EBRO_V1	NCBI	Broad
223	<i>Anopheles christyi</i>	-	Anop_chri_ACHKN1017_V1	NCBI	Broad
224	<i>Anopheles culicifacies</i>	-	Anop_culi_species_A-37.1_V1	NCBI	Broad
225	<i>Anopheles darlingi</i>	-	A_darlingi_v1	NCBI	Laboratorio Nacional de Computacao Cientifica
226	<i>Anopheles dirus</i>	-	Anop_diru_WRAIR2_V1	NCBI	Broad
227	<i>Anopheles epiroticus</i>	-	Anop_epir_epiroticus2_V1	NCBI	Broad
228	<i>Anopheles farauti</i>	-	Anop_fara_FAR1_V2	NCBI	Broad
229	<i>Anopheles funestus</i>	-	Anop_fune_FUM0Z_V1	NCBI	Broad
230	<i>Anopheles gambiae</i>	African malaria mosquito	anoGam1	UCSC	International Anopheles Genome Project
231	<i>Anopheles maculatus</i>	-	Anop_macu_maculatus3_V1	NCBI	Broad
232	<i>Anopheles melas</i>	-	Anop_mela_CM1001059_A_V2	NCBI	Broad
233	<i>Anopheles merus</i>	-	Anop_meru_MAF_V1	NCBI	Broad
234	<i>Anopheles minimus</i>	-	Anop_mini_MINIMUS1_V1	NCBI	Broad
235	<i>Anopheles quadriannulatus</i>	-	Anop_quad_QUAD4_A_V1	NCBI	Broad
236	<i>Anopheles sinensis</i>	-	AS2	NCBI	Nanjing Medical University
237	<i>Anopheles stephensi</i>	-	ASM30077v2	NCBI	Virginia Tech
238	<i>Mayetiola destructor</i>	Hessian fly	Mdes_1.0	NCBI	BCM
239	<i>Lutzomyia longipalpis</i>	Sand fly	Llon_1.0	NCBI	BCM
240	<i>Phlebotomus papatasi</i>	-	Ppap_1.0	NCBI	WashU
241	<i>Ceratitis capitata</i>	Med fly	Ccap_1.0	NCBI	i5k
242	<i>Drosophila albomicans</i>	-	DroAlb_1.0	NCBI	Kunming Institute of Zoology, Chinese Academy of Sciences
243	<i>Drosophila ananassae</i>	-	droAna3	UCSC	Agen
244	<i>Drosophila biarmipes</i>	-	Dbia_2.0	NCBI	BCM
245	<i>Drosophila bipectinata</i>	-	Dbip_2.0	NCBI	BCM
246	<i>Drosophila elegans</i>	-	Dele_2.0	NCBI	BCM

No	Systematic Name	Common Name	Genome Version	Source	Submitter
247	<i>Drosophila erecta</i>	-	droEre2	UCSC	Agen
248	<i>Drosophila eugracilis</i>	-	Deug_2.0	NCBI	modENCODE
249	<i>Drosophila ficusphila</i>	-	Dfic_2.0	NCBI	BCM
250	<i>Drosophila grimshawi</i>	-	droGri2	UCSC	Agen
251	<i>Drosophila kikkawai</i>	-	Dkik_2.0	NCBI	BCM
252	<i>Drosophila melanogaster</i>	-	Release 6 plus ISO1 MT	NCBI	The FlyBase Consortium/Berkeley Drosophila Genome Project/Celera Genomics
253	<i>Drosophila miranda</i>	-	DroMir_2.2	NCBI	University of California, Berkeley
254	<i>Drosophila mojavensis</i>	-	droMoj3	UCSC	Agen
255	<i>Drosophila persimilis</i>	-	droPer1	UCSC	Broad
256	<i>Drosophila pseudoobscura pseudoobscura</i>	-	Dpse_3.0	NCBI	BCM
257	<i>Drosophila rhopaloa</i>	-	Drho_2.0	NCBI	modENCODE
258	<i>Drosophila sechellia</i>	-	droSec1	UCSC	Broad
259	<i>Drosophila simulans</i>	-	dsim_caf1	NCBI	WashU
260	<i>Drosophila suzukii</i>	-	Dsuzukii.v01	NCBI	BGI
261	<i>Drosophila takahashii</i>	-	Dtak_2.0	NCBI	BCM
262	<i>Drosophila virilis</i>	-	droVir3	UCSC	Agen
263	<i>Drosophila willistoni</i>	-	dwil_caf1	NCBI	JCVI
264	<i>Drosophila yakuba</i>	-	dyak_caf1	NCBI	FlyBase
265	<i>Musca domestica</i>	House fly	Musca_domestica-2.0.2	NCBI	GGC
266	<i>Glossina austeni</i>	Tsetse fly	Glossina_austeni-1.0.3	NCBI	GGC
267	<i>Glossina brevipalpis</i>	-	Glossina_brevipalpis_1.0.3	NCBI	GGC
268	<i>Glossina fuscipes fuscipes</i>	-	Glossina_fuscipes-3.0.2	NCBI	GGC
269	<i>Glossina morsitans morsitans</i>	-	ASM107743v1	NCBI	WTSI
270	<i>Glossina pallidipes</i>	-	Glossina_pallidipes-1.0.3	NCBI	GGC
Trichoptera					
271	<i>Limnephilus lunatus</i>	Caddis fly	Llun_1.0	NCBI	i5k
Lepidoptera					
272	<i>Papilio glaucus</i>	Tiger butterfly	pgl_assembly_v1	NCBI	UT Southwestern Medical Center
273	<i>Papilio polytes</i>	Mormon butterfly	Ppol_1.0	NCBI	TokyoTech
274	<i>Papilio xuthus</i>	Swallowtail butterfly	Pxut_1.0	NCBI	TokyoTech

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275	<i>Heliconius melpomene melpomene</i>	Postman butterfly	ASM31383v2	NCBI	Heliconius Genome Sequencing Consortium
276	<i>Melitaea cinxia</i>	Glanville fritillary	MelCinx1.0	NCBI	University of Helsinki
277	<i>Danaus plexippus</i>	Monarch butterfly	DanPle_1.0	NCBI	The Reppert Lab
278	<i>Bombyx mori</i>	Silkworm	ASM15162v1	NCBI	The International Silkworm Genome Sequencing Consortium
279	<i>Manduca sexta</i>	Tobacco hornworm	Msex_1.0	NCBI	BCM
280	<i>Plutella xylostella</i>	Diamondback moth	DBM_FJ_V1.1	NCBI	Plutella xylostella Genome Consortium
Hymenoptera					
281	<i>Athalia rosae</i>	Turnip sawfly	Aros_1.0	NCBI	i5k
282	<i>Cephus cinctus</i>	Wheat stem sawfly	Ccin1	NCBI	UIUC
283	<i>Orussus abietinus</i>	Parasitic wood wasp	Oabi_1.0	NCBI	i5k
284	<i>Ceratosolen solmsi marchali</i>	Pollinating wasp	CerSol_1.0	NCBI	Ceratosolen solmsi Genome Consortium
285	<i>Nasonia giraulti</i>	Jewel wasp	Ngir_1.0	NCBI	BCM
286	<i>Nasonia longicornis</i>	-	Nlon_1.0	NCBI	BCM
287	<i>Nasonia vitripennis</i>	-	Nvit_2.1	NCBI	BCM
288	<i>Copidosoma floridanum</i>	Looper parasitoid wasp	Cflo_1.0	NCBI	i5k
289	<i>Trichogramma pretiosum</i>	-	Tpre_1.0	NCBI	i5k
290	<i>Microplitis demolitor</i>	-	Mdem1	NCBI	UIUC
291	<i>Megachile rotundata</i>	Alfalfa leafcutter bee	MROT_1.0	NCBI	University of Maryland
292	<i>Apis dorsata</i>	Giant honey bee	Apis dorsata 1.3	NCBI	Cold Spring Harbor Laboratory
293	<i>Apis florea</i>	Dwarf honey bee	Aflo_1.0	NCBI	BCM
294	<i>Apis mellifera</i>	Western honey bee	Amel_4.5	NCBI	Human Genome Sequencing Center

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295	<i>Bombus impatiens</i>	Common Eastern bumblebee	BIMP_2.0	NCBI	Biotechnology Center, University of Illinois
296	<i>Bombus terrestris</i>	Buff-tailed bumblebee	Bter_1.0	NCBI	BCM
297	<i>Linepithema humile</i>	Argentine ant	Lhum_UMD_V04	NCBI	AGC
298	<i>Camponotus floridanus</i>	Florida carpenter ant	CamFlo_1.0	NCBI	BGI
299	<i>Acromyrmex echinator</i>	Panamanian leafcutter ant	Aech_3.9	NCBI	BGI
300	<i>Atta cephalotes</i>	Leafcutter ant	Attacep1.0	NCBI	WashU
301	<i>Solenopsis invicta</i>	Red imported fire ant	Si_gnG	NCBI	UNIL
302	<i>Pogonomyrmex barbatus</i>	Red harvester ant	Pbar_UMD_V03	NCBI	AGC
303	<i>Harpegnathos saltator</i>	Jumping ant	HarSal_1.0	NCBI	BGI
304	<i>Cerapachys biroi</i>	Clonal raider ant	CerBir1.0	NCBI	BGI
Blattodea					
305	<i>Blattella germanica</i>	German cockroach	Bger_1.0	NCBI	i5k
Isoptera					
306	<i>Zootermopsis nevadensis</i>	Eusocial termite	ZooNev1.0	NCBI	BGI
Orthoptera					
307	<i>Locusta migratoria</i>	Migratory locust	LocustGenomeV1	NCBI	Chinese Academy of Sciences
Diplostraca					
308	<i>Daphnia pulex</i>	Water flea	V1.0	NCBI	JGI
Calanoida					
309	<i>Eurytemora affinis</i>	Copepod	Eaff_1.0	NCBI	i5k
Siphonostomatoida					
310	<i>Lepeophtheirus salmonis</i>	Salmon louse	lsal_atl.canada_female_v1	NCBI	Jong S Leong, Ben F Koop, Eric B Rondeau
Amphipoda					
311	<i>Hyalella azteca</i>	Scud	Hazt_1.0	NCBI	BCM
Geophilomorpha					
312	<i>Strigamia maritima</i>	European centipede	Smar_1.0	NCBI	BCM
Araneae					
313	<i>Stegodyphus mimosarum</i>	Social spider	Stegodyphus_mimosarum_v1	NCBI	BGI
314	<i>Latrodectus hesperus</i>	Black widow	Lhes_1.0	NCBI	i5k
315	<i>Parasteatoda tepidariorum</i>	Common house spider	Ptep_1.0	NCBI	i5k
Prostigmata					

No	Systematic Name	Common Name	Genome Version	Source	Submitter
316	<i>Tetranychus urticae</i>	Red spider mite	ASM23943v1	NCBI	Spider Mite Consortium
Astigmata					
317	<i>Dermatophagoides farinae</i>	House dust mite	Dfarinae1.0	NCBI	CUHK
318	<i>Sarcoptes scabiei type canis</i>	Dog mite	SarSca1.0	NCBI	Wright State University
Oribatida					
319	<i>Achipteria coleoptrata</i>	-	SM98876v1	NCBI	UNIL
320	<i>Hypochthonius rufulus</i>	-	ASM98884v1	NCBI	UNIL
321	<i>Platynothrus peltifer</i>	Oribatid mite	ASM98890v1	NCBI	UNIL
322	<i>Steganacarus magnus</i>	-	ASM98888v1	NCBI	UNIL
Ixodida					
323	<i>Ixodes ricinus</i>	Castor bean tick	ASM97304v1	NCBI	Luxembourg Institute of Health
324	<i>Ixodes scapularis</i>	Deer tick	JCVLISG_i3_1.0	NCBI	JCVI
325	<i>Rhipicephalus microplus</i>	Cattle tick	CCG_Rmi_1.0	NCBI	USDA-ARS
Mesostigmata					
326	<i>Metaseiulus occidentalis</i>	Western predatory mite	Mocc_1.0	NCBI	BCM
327	<i>Varroa destructor</i>	Honeybee mite	BRL_Vdes_1.0	NCBI	Varroa Genome Sequencing Consortium
Scorpiones					
328	<i>Centruroides exilicauda</i>	Baja california bark scorpion	Cexi_1.0	NCBI	i5k
329	<i>Mesobuthus martensii</i>	Chinese scorpion	M_martensii_Version_1	NCBI	Institute of Plant Physiology & Ecology, Shanghai Insitutes for Biology Sciences, CAS
Xiphosura					
330	<i>Limulus polyphemus</i>	Atlantic horseshoe crab	Limulus_polyphemus-2.1.2	NCBI	WashU
Trichocephalida					
331	<i>Trichinella spiralis</i>	Pork worm	Trichinella spiralis-3.7.1	NCBI	WashU
Ascaridida					
332	<i>Ascaris suum</i>	Pig roundworm	AscSuum_1.0	NCBI	BGI
Spirurida					
333	<i>Elaeophora elaphi</i>	Red deer nematode	EEL001	NCBI	WTSI
334	<i>Onchocerca volvulus</i>	-	OVOC001	NCBI	WTSI

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Rhabditida					
335	<i>Steinernema monticolum</i>	-	S_monti_v1	NCBI	Caltech
336	<i>Panagrellus redivivus</i>	Microworm	Pred3	NCBI	Caltech
337	<i>Haemonchus contortus</i>	Wireworm	HCON	NCBI	WTSI
338	<i>Necator americanus</i>	Human hookworm	N_americanus_v1	NCBI	WashU
339	<i>Heterorhabditis bacteriophora</i>	Beneficial nematode	Heterorhabditis_bacteriophora-7.0	NCBI	WashU
340	<i>Caenorhabditis angaria</i>	-	ps1010rel4	NCBI	California Institute of Technology, Division of Biology
341	<i>Caenorhabditis brenneri</i>	-	C_brenneri-6.0.1b	NCBI	Caenorhabditis brenneri Sequencing and Analysis Consortium
342	<i>Caenorhabditis briggsae</i>	-	ASM455v1	NCBI	The C.briggsae Sequencing Consortium
343	<i>Caenorhabditis elegans</i>	-	WBcel235	NCBI	C. elegans Sequencing Consortium
344	<i>Caenorhabditis japonica</i>	-	C_japonica-7.0.1	NCBI	WashU
345	<i>Caenorhabditis sp. 11 MAF-2010</i>	-	Caenorhabditis_sp11_JU1373-3.0.1	NCBI	WashU
Priapulimorphida					
346	<i>Priapulus caudatus</i>	Cactus worm	Priapulus_caudatus-4.0.1	NCBI	WashU
ROTIFERA					
Bdelloidea					
347	<i>Adineta vaga</i>	Rotifer	AMS_PRJEB1171_v1	NCBI	Genoscope CEA
PLATYHELMINTHES					
Strigeidida					
348	<i>Schistosoma curassoni</i>	-	S_curassoni_Dakar	NCBI	WTSI
349	<i>Schistosoma haematobium</i>	-	SchHae_1.0	NCBI	CHGC
350	<i>Schistosoma japonicum</i>	-	ASM15177v1	NCBI	CHGC
351	<i>Schistosoma mansoni</i>	-	ASM23792v2	NCBI	Schistosoma Genome Network
352	<i>Schistosoma margrebowiei</i>	-	S_margrebowiei_Zambia	NCBI	WTSI
353	<i>Schistosoma mattheei</i>	-	S_mattheei_Denwood	NCBI	WTSI

No	Systematic Name	Common Name	Genome Version	Source	Submitter
354	<i>Schistosoma rodhaini</i>	-	S_rodhaini_Burundi	NCBI	WTSI
Opisthorchiida					
355	<i>Clonorchis sinensis</i>	Chinese liver fluke	C_sinensis-2.0	NCBI	Department of Parasitology, Zhongshan School of Medicine, Sun Yat-sen University
Cyclophyllidea					
356	<i>Echinococcus granulosus</i>	Hyper tapeworm	EGRAN001	NCBI	WTSI
357	<i>Echinococcus multilocularis</i>	Fox tapeworm	EMULTI001	NCBI	WTSI
358	<i>Hymenolepis microstoma</i>	Rodent tapeworm	HMIC001	NCBI	WTSI
Polyopisthocotylea					
359	<i>Protopolystoma xenopodis</i>	Frog parasite	P_xenopodis_South_Africa	NCBI	WTSI
ANNELIDA					
Scolecida					
360	<i>Capitella teleta</i>	Polychaete worm	Capca1	NCBI	JGI
Rhynchobdellida					
361	<i>Helobdella robusta</i>	Leech	Helobdella robusta v1.0	NCBI	JGI
MOLLUSCA					
Ostreoida					
362	<i>Crassostrea gigas</i>	Pacific oyster	oyster_v9	NCBI	BGI
Gastropoda					
363	<i>Lottia gigantea</i>	Owl limpet	Helro1	NCBI	JGI
364	<i>Aplysia californica</i>	California sea hare	AplCal3.0	NCBI	Broad
365	<i>Biomphalaria glabrata</i>	Freshwater snail	ASM45736v1	NCBI	WashU
CNIDARIA					
Actiniaria					
366	<i>Nematostella vectensis</i>	Starlet sea anemone	ASM20922v1	NCBI	JGI
Anthoathecata					
367	<i>Hydra vulgaris</i>	Freshwater polyp	Hydra_RP_1.0	NCBI	JCVI
TENTACULATA					
Lobata					
368	<i>Mnemiopsis leidyi</i>	Warty comb jelly	MneLei_Aug2011	NCBI	National Human Genome Research Institute, National Institutes of Health

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PLACOZOA					
369	<i>Trichoplax adhaerens</i>	Placozoan	v1.0	NCBI	JGI
PORIFERA					
Haplosclerida					
370	<i>Amphimedon queenslandica</i>	Sea sponge	v1.0	NCBI	JGI
ECHINOIDEA					
Temnopleuroida					
371	<i>Lytechinus variegatus</i>	Green sea urchin	Lvar_0.4	NCBI	BCM
Echinoida					
372	<i>Strongylocentrotus purpuratus</i>	Purple sea urchin	Spur_3.1	NCBI	BCM
ASTEROIDEA					
Valvatida					
373	<i>Patiria miniata</i>	Bat star	Pmin_1.0	NCBI	Sea Urchin Genome Sequencing Consortium
ENTEROPNEUSTA					
374	<i>Saccoglossus kowalevskii</i>	Acorn worm	Skow_1.1	NCBI	BCM
TUNICATA					
Enterogona					
375	<i>Ciona intestinalis</i>	Sea squirt	KH	NCBI	Organization: Department of Zoology, Graduate School
376	<i>Ciona savignyi</i>	-	ASM14926v1	NCBI	Broad
Pleurogona					
377	<i>Botryllus schlosseri</i>	Star ascidian	356a-chromosome-assembly	NCBI	Stanford University
Copelata					
378	<i>Oikopleura dioica</i>	Larvaceans	ASM20953v1	NCBI	Genoscope CEA
LEPTOCARDII					
Amphioxiformes					
379	<i>Branchiostoma floridae</i>	Lancelet	Version 2	NCBI	JGI
CEPHALASPIDOMORPHI					
Petromyzontiformes					
380	<i>Lethenteron camtschaticum</i>	Arctic lamprey	LetJap1.0	NCBI	IMCB
381	<i>Petromyzon marinus</i>	Sea lamprey	petMar2	UCSC	WashU
SARCOPTERYGII					
Coelacanthiformes					
382	<i>Latimeria chalumnae</i>	Coelacanth	latCha1	UCSC	Broad
FUNGI					

No	Systematic Name	Common Name	Genome Version	Source	Submitter
AGARICOMYCETES					
Agaricales					
383	<i>Agaricus bisporus</i> var. <i>bisporus</i>	Edible basidiomycete mushroom	ASM30057v2	NCBI	JGI-PSF
384	<i>Agaricus bisporus</i> var. <i>burnettii</i>	-	Agabi_varbur_1	NCBI	JGI
385	<i>Schizophyllum commune</i>	Mushroom	v1.0	NCBI	JGI-PGF
386	<i>Coprinopsis cinerea</i>	Small mushroom	CC3	NCBI	Broad
387	<i>Moniliophthora roreri</i>	Frosty pod rot	ASM146670v1	NCBI	Purdue University
388	<i>Laccaria bicolor</i>	Tan-colored mushroom	V1.0	NCBI	Laccaria Genome Consortium
Auriculariales					
389	<i>Auricularia subglabra</i>	Jelly fungi	Auricularia subglabra SS-5 V1.0	NCBI	JGI
Boletales					
390	<i>Coniophora puteana</i>	Wet rot fungus	Conpu1	NCBI	DOE JGI
391	<i>Serpula lacrymans</i>	Dry rot fungus	v1.0	NCBI	JGI-PGF
Corticiales					
392	<i>Punctularia strigosozonata</i>	Steroid fungi	Punctularia strigosozonata v1.0	NCBI	JGI
Gloeophyllales					
393	<i>Gloeophyllum trabeum</i>	Brown-rot fungi	Glotr1.1	NCBI	JGI
Hymenochaetales					
394	<i>Fomitiporia mediterranea</i>	-	Fomme1	NCBI	JGI
Polyporales					
395	<i>Dichomitus squalens</i>	Poroid crust fungi	Dichomitus squalens v1.0	NCBI	JGI
396	<i>Fibroporia radiculosa</i>	-	ASM31352v1	NCBI	Forest Products, Mississippi State University
397	<i>Phanerochaete carnosa</i>	Crust fungus	Phanerochaete carnosa HHB-10118-Sp v1.0	NCBI	DOE JGI
398	<i>Postia placenta</i>	Brown rot fungus	PosplRSB12.1	NCBI	DOE JGI
399	<i>Trametes versicolor</i>	Polypore mushroom	Trametes versicolor v1.0	NCBI	JGI
Russulales					
400	<i>Heterobasidion irregulare</i>	Tree root rotting pathogenic fungus	Heterobasidion irregulare v2.0	NCBI	JGI
401	<i>Stereum hirsutum</i>	False turkey tail	Stehi1	NCBI	JGI
CHYTRIDIOMYCETES					
Spizellomycetales					

No	Systematic Name	Common Name	Genome Version	Source	Submitter
402	<i>Spizellomyces punctatus</i>	Chytrid fungus	S_punctatus.V1	NCBI	Broad
Rhizophydiales					
403	<i>Batrachochytrium dendrobatidis</i>	Amphibian chytrid fungus	v1.0	NCBI	JGI-PGF
DOTHIDEOMYCETES					
Botryosphaerales					
404	<i>Diplodia corticola</i>	-	ASM188384v1	NCBI	University of Aveiro
405	<i>Neofusicoccum parvum</i>	-	UCRNP2V3	NCBI	UC Davis
Capnodiales					
406	<i>Baudoinia panamericana</i>	-	Bauco1	NCBI	JGI
407	<i>Cercospora beticola</i>	Fungal plant pathogen	CB0940.V2	NCBI	VIB
408	<i>Pseudocercospora fijiensis</i>	Black leaf streak fungus	Mycfi2	NCBI	DOE JGI
409	<i>Sphaerulina musiva</i>	-	Septoria musiva SO2202 v1.0	NCBI	JGI
410	<i>Zymoseptoria tritici</i>	Filamentous fungus	MYCGR v2.0	NCBI	DOE JGI
Dothideales					
411	<i>Aureobasidium namibiae</i>	Black yeast-like fungus	Aureobasidium pullulans var. namibiae CBS 147.97 v1.0	NCBI	DOE JGI
412	<i>Aureobasidium subglaciale</i>	-	Aureobasidium pullulans var. subglaciale EXF-2481 v1.0	NCBI	JGI
Dothideomycetes incertae sedis					
413	<i>Coniosporium apollinis</i>	-	Coni_apol_CBS100218_V1	NCBI	Broad
Pleosporales					
414	<i>Paraphaeosphaeria sporulosa</i>	-	Parsp1	NCBI	DOE JGI
415	<i>Parastagonospora nodorum</i>	-	ASM14691v2	NCBI	Broad
416	<i>Leptosphaeria maculans</i>	Blackleg disease fungus	ASM23037v1	NCBI	Genoscope
417	<i>Alternaria alternata</i>	-	Altal1	NCBI	DOE JGI
418	<i>Bipolaris maydis</i>	Stalk rot fungus	CocheC4.1	NCBI	JGI
419	<i>Bipolaris oryzae</i>	-	Cochliobolus miyabeanus v1.0	NCBI	JGI
420	<i>Bipolaris sorokiniana</i>	-	Cocsa1	NCBI	JGI
421	<i>Bipolaris victoriae</i>	-	Cochliobolus victoriae v1.0	NCBI	JGI

No	Systematic Name	Common Name	Genome Version	Source	Submitter
422	<i>Bipolaris zeicola</i>	-	Cochliobolus carbonum v1.0	NCBI	JGI
423	<i>Pyrenophora teres</i>	Necrotrophic fungus	PTT_W1-1	NCBI	CURTIN UNIVERSITY
424	<i>Pyrenophora tritici-repentis</i>	-	ASM14998v1	NCBI	Broad
425	<i>Setosphaeria turcica</i>	-	Setosphaeria truca Et28A v1.0	NCBI	JGI
Venturiales					
426	<i>Verruconis gallopava</i>	-	O_gall_CBS43764	NCBI	Broad
EUROTIOMYCETES					
Chaetothyriales					
427	<i>Cyphellophora europaea</i>	-	Phia_euro_CBS_101466_V1	NCBI	Broad
428	<i>Capronia coronata</i>	Black yeast	Capr.coro_CB_617_96_V1	NCBI	Broad
429	<i>Capronia epimyces</i>	-	Capr.epim_CBS_606_96_V1	NCBI	Broad
430	<i>Cladophialophora bantiana</i>	Dematiaceous fungus	Clad.bant_CBS_173_52_V1	NCBI	Broad
431	<i>Cladophialophora carrionii</i>	Melanized fungus	Clad.carr_CBS_160_54_V1	NCBI	Broad
432	<i>Cladophialophora immunda</i>	-	Clad.immu_CBS83496_V1	NCBI	Broad
433	<i>Cladophialophora psammophila</i>	-	Clad.psam_CBS_110553_V1	NCBI	Broad
434	<i>Cladophialophora yegresii</i>	-	Clad.yegr_CBS_114405_V1	NCBI	Broad
435	<i>Exophiala aquamarina</i>	-	Exop.aqua_CBS_119918_V1	NCBI	Broad
436	<i>Exophiala dermatitidis</i>	-	Exop.derm_V1	NCBI	Broad
437	<i>Exophiala mesophila</i>	-	Exop.meso_CBS40295_V1	NCBI	Broad
438	<i>Exophiala oligosperma</i>	-	Exop.olig_CBS72588_V1	NCBI	Broad
439	<i>Exophiala spinifera</i>	-	Exop.spin_CBS89968_V1	NCBI	Broad
440	<i>Exophiala xenobiotica</i>	-	Exop.xeno_CBS118157_V1	NCBI	Broad
441	<i>Fonsecaea erecta</i>	-	ASM165198v1	NCBI	Federal University of Parana

No	Systematic Name	Common Name	Genome Version	Source	Submitter
442	<i>Fonsecaea monophora</i>	-	ASM164247v1	NCBI	Federal University of Parana
443	<i>Fonsecaea multimorphosa</i>	-	Fons_mult_CBS_102226_V1	NCBI	Broad
444	<i>Fonsecaea nubica</i>	-	ASM164696v1	NCBI	Federal University of Parana
445	<i>Fonsecaea pedrosoi</i>	-	Fons_pedr_CBS_271_37_V1	NCBI	Submitter
446	<i>Phialophora attae</i>	Black yeast	ASM129925v1	NCBI	CBS-KNAW Fungal Biodiversity Centre
447	<i>Rhinochadiella mackenziei</i>	-	Rhin_mack_CBS_650_93_V1	NCBI	Broad
Eurotiales					
448	<i>Aspergillus aculeatus</i>	-	Aspac1	NCBI	JGI
449	<i>Aspergillus bombycis</i>	-	ASM179269v1	NCBI	USDA-ARS-SRRC
450	<i>Aspergillus clavatus</i>	-	ASM271v1	NCBI	J. Craig Venter Institute
451	<i>Aspergillus fischeri</i>	-	ASM14964v1	NCBI	TIGR
452	<i>Aspergillus flavus</i>	-	JCVI-af1-v2.0	NCBI	J. Craig Venter Institute
453	<i>Aspergillus fumigatus</i>	-	ASM265v1	NCBI	J. Craig Venter Institute
454	<i>Aspergillus glaucus</i>	-	Aspgl1	NCBI	DOE JGI
455	<i>Aspergillus nidulans</i>	-	ASM14920v2	NCBI	Broad
456	<i>Aspergillus niger</i>	-	ASM285v2	NCBI	DSM, The Netherlands
457	<i>Aspergillus nomius</i>	-	ASM120477v1	NCBI	USDA-ARS-SRRC
458	<i>Aspergillus oryzae</i>	-	ASM18445v3	NCBI	NITE
459	<i>Aspergillus terreus</i>	Mold fungus	ASM14961v1	NCBI	Broad
460	<i>Penicillium zonata</i>	-	Aspzo1	NCBI	DOE JGI
461	<i>Penicillium arizonense</i>	-	ASM177332v1	NCBI	Chalmers University of Technology
462	<i>Penicillium chrysogenum</i>	-	ASM71027v1	NCBI	Ruhr-Universität Bochum
463	<i>Penicillium digitatum</i>	-	PdigPd1_v1	NCBI	CRG
464	<i>Penicillium expansum</i>	Psychrophilic blue mold	ASM76974v1	NCBI	CRG
465	<i>Penicillium marneffei</i>	-	JCVI-PMFA1-2.0	NCBI	J. Craig Venter Institute

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466	<i>Rasamsonia emersonii</i>	-	ASM96859v1	NCBI	DSM Bio-based Products & Services B.V.
467	<i>Talaromyces atroroseus</i>	-	ASM190759v1	NCBI	Technical University of Denmark
468	<i>Talaromyces stipitatus</i>	-	JCVI-TSTA1-3.0	NCBI	J. Craig Venter Institute
Onygenales					
469	<i>Ajellomyces dermatitidis</i>	-	BD_ER3_V1	NCBI	Broad
470	<i>Arthroderma otae</i>	-	ASM15114v1	NCBI	Broad
471	<i>Coccidioides immitis</i>	-	ASM14933v2	NCBI	Broad
472	<i>Coccidioides posadasii</i>	-	JCVI-cpa1-1.0	NCBI	TIGR
473	<i>Histoplasma capsulatum</i>	-	ASM14958v1	NCBI	Broad
474	<i>Nannizzia gypsea</i>	-	MS_CBS118893	NCBI	Broad
475	<i>Paracoccidioides brasiliensis</i>	Dimorphic fungus	Paracocci_br_Pb18_ V2	NCBI	Broad
476	<i>Paracoccidioides lutzii</i>	-	Paracocci_br_Pb01_ V2	NCBI	Broad
477	<i>Trichophyton benhamiae</i>	-	ASM15112v2	NCBI	Arthroderma Genome Sequencing Consortium
478	<i>Trichophyton rubrum</i>	-	ASM15142v1	NCBI	Broad
479	<i>Trichophyton verrucosum</i>	-	ASM15150v1	NCBI	Arthroderma Genome Sequencing Consortium
480	<i>Uncinocarpus reesii</i>	-	ASM351v2	NCBI	Broad
Verrucariales					
481	<i>Endocarpon pusillum</i>	-	EPUS	NCBI	Chinese Academy of Sciences
EXOBASIDIOMYCETES					
Georgefischeriales					
482	<i>Tilletiaria anomala</i>	-	Tilletiaria anomala UBC 951 v1.0	NCBI	DOE JGI
LEOTIOMYCETES					
Helotiales					
483	<i>Botryotinia fuckeliana</i>	Gray mold fungus	ASM14353v4	NCBI	Syngenta Biotechnology, Inc.
484	<i>Glarea lozoyensis</i>	-	GLAREA	NCBI	Chinese Academy of Sciences

No	Systematic Name	Common Name	Genome Version	Source	Submitter
485	<i>Marssonina brunnea</i>	-	ASM29877v1	NCBI	Nanjing Forestry University
486	<i>Phialocephala scopiformis</i>	-	Phisc1	NCBI	DOE JGI
487	<i>Sclerotinia sclerotiorum</i>	White mold fungus	ASM14694v2	NCBI	Broad
Leotiomycetes incertae sedis					
488	<i>Pseudogymnoascus destructans</i>	Cold-loving fungus	ASM164126v1	NCBI	US Forest Service
489	<i>Pseudogymnoascus verrucosus</i>	-	ASM166265v1	NCBI	US Forest Service
MALASSEZIOMYCETES					
Malasseziales					
490	<i>Malassezia globosa</i>	-	ASM18169v1	NCBI	The Procter & Gamble Company
491	<i>Malassezia pachydermatis</i>	-	MalaPachy	NCBI	University of Utrecht
492	<i>Malassezia sympodialis</i>	-	ASM34930v2	NCBI	SciLifeLab
MICROBOTRYOMYCETES					
Sporidiobolales					
493	<i>Rhodotorula graminis</i>	Pigmented yeast	Rhoba1_1	NCBI	DOE JGI
494	<i>Rhodotorula toruloides</i>	-	RHOziaDV1.0	NCBI	Dalian Institute of Chemical Physics
MIXIOMYCETES					
Mixiales					
495	<i>Mixia osmundae</i>	-	Mixia osmundae v1.0	NCBI	DOE JGI
ORBILIOMYCETES					
Orbiliales					
496	<i>Arthrotrrys oligospora</i>	-	AOL24927 1.0	NCBI	P. R. China
497	<i>Dactylellina haptotyla</i>	-	MHA_v2	NCBI	Lund University
PEZIZOMYCETES					
Pezizales					
498	<i>Tuber melanosporum</i>	Black truffle	ASM15164v1	NCBI	The French-Italian Tuber Genome Consortium
PNEUMOCYSTIDOMYCETES					
Pneumocystidales					
499	<i>Pneumocystis carinii</i>	Yeast-like fungus	Pneu_cari_B80_ V3	NCBI	Broad
500	<i>Pneumocystis jirovecii</i>	-	Pneu_jiro_RU7_ V2	NCBI	Broad
501	<i>Pneumocystis murina</i>	-	Pneumo_murina_B123_ V4	NCBI	Broad
PUCCINIOMYCETES					

No	Systematic Name	Common Name	Genome Version	Source	Submitter
Pucciniales					
502	<i>Melampsora larici-populina</i>	Poplar leaf rust fungus	v1.0	NCBI	JGI-PGF
503	<i>Puccinia graminis</i>	Wheat stem rust fungus	ASM14992v1	NCBI	Broad
SACCHAROMYCETES					
Saccharomycetales					
504	<i>Candida albicans</i>	Yeast	ASM18296v3	NCBI	Stanford University
505	<i>Candida auris</i>	-	ASM118947v1	NCBI	Indian Institute of Science
506	<i>Candida dubliniensis</i>	-	ASM2694v1	NCBI	Wellcome
507	<i>Candida glabrata</i>	-	ASM254v2	NCBI	Genolevures Consortium
508	<i>Candida orthopsilosis</i>	-	ASM31587v1	NCBI	Trinity College Dublin
509	<i>Candida tanzawaensis</i>	-	Canta1	NCBI	Submitter
510	<i>Candida tenuis</i>	-	Candida tenuis v1.0	NCBI	DOE JGI
511	<i>Candida tropicalis</i>	-	ASM633v2	NCBI	Broad
512	<i>Lodderomyces elongisporus</i>	-	ASM14968v1	NCBI	Broad
513	<i>Ascoidea rubescens</i>	-	Asclu1	NCBI	DOE JGI
514	<i>Babjeviella inositolovora</i>	-	Babin1	NCBI	DOE JGI
515	<i>Clavispora lusitaniae</i>	-	ASM383v1	NCBI	Broad
516	<i>Cyberlindnera jadinii</i>	-	Cybja1	NCBI	DOE JGI
517	<i>Debaryomyces fabryi</i>	-	debFab1.0	NCBI	University of Natural Resources and Life Sciences
518	<i>Debaryomyces hansenii</i>	-	ASM644v2	NCBI	Genolevures Consortium
519	<i>Eremothecium cymbalariae</i>	-	ASM23536v1	NCBI	Carlsberg Laboratory
520	<i>Eremothecium gossypii</i>	-	ASM9102v4	NCBI	Biozentrum
521	<i>Eremothecium sinecaudum</i>	-	ASM154855v1	NCBI	Duke University
522	<i>Hyphopichia burtonii</i>	-	Hypbu1	NCBI	DOE JGI
523	<i>Kazachstania africana</i>	-	Ka_CBS2517	NCBI	Wolfe Laboratory
524	<i>Kazachstania naganishii</i>	-	ASM34898v1	NCBI	Wolfe Laboratory
525	<i>Kluyveromyces lactis</i>	-	ASM251v1	NCBI	Genolevures Consortium
526	<i>Kluyveromyces marxianus</i>	-	Kmar_1.0	NCBI	Yamaguchi University
527	<i>Komagataella phaffii</i>	-	ASM2700v1	NCBI	VIB
528	<i>Kuraishia capsulata</i>	-	AUH.PRJEB4427_v1	NCBI	Genoscope CEA

No	Systematic Name	Common Name	Genome Version	Source	Submitter
529	<i>Lachancea lanzarotensis</i>	-	LALAO	NCBI	INRA UMR 1319
530	<i>Lachancea thermotolerans</i>	-	ASM14280v1	NCBI	Genolevures Consortium
531	<i>Metschnikowia bicuspidata</i>	-	Metbi1	NCBI	DOE JGI
532	<i>Meyerozyma guilliermondii</i>	-	ASM14942v1	NCBI	Broad
533	<i>Naumovozya castellii</i>	-	ASM23734v1	NCBI	Trinity College Dublin
534	<i>Naumovozya dairenensis</i>	-	ASM22711v2	NCBI	Trinity College Dublin
535	<i>Ogataea parapolymorpha</i>	-	Hansenula_2	NCBI	Centre
536	<i>Ogataea polymorpha</i>	-	Hanpo2	NCBI	JGI-PGF
537	<i>Saccharomyces cerevisiae</i>	-	R64	NCBI	Saccharomyces Genome Database
538	<i>Saccharomyces eubayanus</i>	-	SEUB3.0	NCBI	University of Wisconsin-Madison
539	<i>Spathaspora passalidarum</i>	-	Spathaspora passalidarum v2.0	NCBI	DOE JGI
540	<i>Sugiyamaella lignohabitans</i>	-	ASM164002v2	NCBI	University of Natural Resources and Life Sciences
541	<i>Tetrapisispora blattae</i>	-	ASM31591v1	NCBI	Wolfe Laboratory
542	<i>Tetrapisispora phaffii</i>	-	ASM23690v1	NCBI	Wolfe Laboratory
543	<i>Torulaspora delbrueckii</i>	-	ASM24337v1	NCBI	Wolfe Laboratory
544	<i>Vanderwaltozyma polyspora</i>	-	ASM15003v1	NCBI	Trinity College Dublin
545	<i>Yarrowia lipolytica</i>	-	ASM252v1	NCBI	Genolevures Consortium
546	<i>Zygosaccharomyces rouxii</i>	-	ASM2636v1	NCBI	Genolevures Consortium
547	<i>Wickerhamomyces anomalus</i>	-	Wican1	NCBI	JGI-PSF
548	<i>Wickerhamomyces ciferrii</i>	-	ASM31348v1	NCBI	Center for Biotechnology
549	<i>Scheffersomyces stipitis</i>	-	ASM20916v1	NCBI	DOE JGI
550	<i>Pichia kudriavzevii</i>	-	ASM198332v1	NCBI	WUR
551	<i>Pichia membranifaciens</i>	-	Picme2	NCBI	JGI-PSF

No	Systematic Name	Common Name	Genome Version	Source	Submitter
SCHIZOSACCHAROMYCETES					
Schizosaccharomycetales					
552	<i>Schizosaccharomyces cryophilus</i>	-	SCY4	NCBI	Broad
553	<i>Schizosaccharomyces japonicus</i>	-	SJ5	NCBI	Broad
554	<i>Schizosaccharomyces octosporus</i>	-	SO6	NCBI	Broad
555	<i>Schizosaccharomyces pombe</i>	-	ASM294v2	NCBI	EUPOM
SORDARIOMYCETES					
Hypocreales					
556	<i>Metarhizium acridum</i>	-	MetAcr_May2010	NCBI	Metarhizium genome sequencing Consortium
557	<i>Metarhizium brunneum</i>	-	MBR_1.0	NCBI	Shanghai Institutes for Biological Sciences
558	<i>Metarhizium majus</i>	-	MAJ_1.0	NCBI	Shanghai Institutes for Biological Sciences
559	<i>Metarhizium robertsii</i>	-	MAA 2.0	NCBI	Metarhizium genome sequencing Consortium
560	<i>Pochonia chlamydosporia</i>	-	ASM165323v2	NCBI	The Institute of Vegetables and Flowers CAAS
561	<i>Beauveria bassiana</i>	-	ASM28067v1	NCBI	Zhejiang University, China
562	<i>Cordyceps militaris</i>	-	CmilitarisCM01_v01	NCBI	SIBS
563	<i>Isaria fumosorosea</i>	-	ISF 1.0	NCBI	Shanghai Institutes for Biological Sciences
564	<i>Trichoderma atroviride</i>	-	TRIAT v2.0	NCBI	DOE JGI
565	<i>Trichoderma gamsii</i>	-	TGAM01v2	NCBI	University of Pisa
566	<i>Trichoderma reesei</i>	-	v2.0	NCBI	DOE JGI
567	<i>Trichoderma virens</i>	-	TRIVI v2.0	NCBI	DOE JGI
568	<i>Fusarium fujikuroi</i>	-	Fusarium_fujikuroi_IMI58289_V2	NCBI	HMGU-IBIS

No	Systematic Name	Common Name	Genome Version	Source	Submitter
569	<i>Fusarium graminearum</i>	-	ASM24013v3	NCBI	International Gibberella zeae Genomics Consortium
570	<i>Fusarium oxysporum</i>	-	ASM14995v2	NCBI	Broad
571	<i>Fusarium pseudograminearum</i>	Crown rot fungus	FP7	NCBI	CSIRO
572	<i>Fusarium verticillioides</i>	-	ASM14955v1	NCBI	Syngenta Biotechnology, Inc.
573	<i>Nectria haematococca</i>	-	v2.0	NCBI	DOE JGI
574	<i>Purpureocillium lilacinum</i>	-	ASM 165326v1	NCBI	The Institute of Vegetables and Flowers CAAS
Glomerellales					
575	<i>Colletotrichum fioriniae</i>	-	ASM293045v1	NCBI	VIB
576	<i>Colletotrichum gloeosporioides</i>	-	ASM290110v1	NCBI	Yeungnam University
577	<i>Colletotrichum graminicola</i>	-	C_graminicola_M1_001_V1	NCBI	Broad
578	<i>Colletotrichum higginsianum</i>	-	ASM167251v1	NCBI	GATC Biotech AG
579	<i>Colletotrichum orchidophilum</i>	-	CORC01	NCBI	University of Western Brittany
580	<i>Verticillium alfalfae</i>	Verticillium wilt fungus	ASM15082v1	NCBI	Broad
581	<i>Verticillium dahliae</i>	-	ASM15067v2	NCBI	Broad
Magnaporthales					
582	<i>Magnaporthe oryzae</i>	Rice blast fungus	MG8	NCBI	International Rice Blast Genome Consortium
583	<i>Gaeumannomyces tritici</i>	-	Gae_graminis_V2	NCBI	Broad
Microascales					
584	<i>Scedosporium apiospermum</i>	Environmental mold	ScApio1.0	NCBI	LUNAM - Angers University
Ophiostomatales					
585	<i>Grosmannia clavigera</i>	-	Sanger-454-IlluminaPA_2.0	NCBI	The Tria Project
586	<i>Sporothrix schenckii</i>	Dimorphic fungus	S_schenckii_v1	NCBI	LNCC
Sordariales					
587	<i>Chaetomium globosum</i>	-	ASM14336v1	NCBI	The Genome Assembly Team

No	Systematic Name	Common Name	Genome Version	Source	Submitter
588	<i>Chaetomium thermophilum</i>	-	CTHT_3.0	NCBI	EMBL
589	<i>Neurospora crassa</i>	-	NC12	NCBI	Broad
590	<i>Neurospora tetrasperma</i>	-	v2.0	NCBI	JGI-PGF
591	<i>Podospora anserina</i>	-	ASM22654v1	NCBI	Genoscope
592	<i>Sordaria macrospora</i>	-	ASM18280v2	NCBI	Ruhr University Bochum
593	<i>Thermothelomyces thermophila</i>	-	ASM22609v1	NCBI	DOE JGI
594	<i>Thielavia terrestris</i>	-	ASM22611v1	NCBI	DOE JGI
Togniniales					
595	<i>Phaeoacremonium minimum</i>	-	UCRPA7V03	NCBI	UC Davis
Xylariales					
596	<i>Eutypa lata</i>	-	UCREL1V03	NCBI	UC Davis
597	<i>Pestalotiopsis fici</i>	Endophytic fungus	PFICI	NCBI	Chinese Academy of Sciences
TREMELLOMYCETES					
Tremellales					
598	<i>Cryptococcus amyloletus</i>	-	Cryp.amyl.CBS6039_V3	NCBI	Broad
599	<i>Cryptococcus gattii</i>	-	ASM18594v1	NCBI	Canada Michael Smith Genome Sciences Centre
600	<i>Cryptococcus neoformans</i> var. <i>grubii</i>	Encapsulated yeast	CNA3	NCBI	Broad
601	<i>Cryptococcus neoformans</i> var. <i>neoformans</i> JEC21	-	ASM9104v1	NCBI	TIGR
602	<i>Cryptococcus neoformans</i> var. <i>neoformans</i> B-3501A	-	ASM14938v1	NCBI	Stanford University
603	<i>Kockovaella imperatae</i>	-	Kocim1	NCBI	DOE JGI
604	<i>Kwoniella bestiolae</i>	-	Cryp.best.CBS10118_V1	NCBI	Broad
605	<i>Kwoniella dejecticola</i>	-	Cryp.deje.CBS10117_V1	NCBI	Broad
606	<i>Kwoniella mangroviensis</i>	-	Kwon.mang.CBS8507_V2	NCBI	Broad
607	<i>Kwoniella pini</i>	-	Cryp.pinu.CBS10737_V1	NCBI	Broad
608	<i>Tremella mesenterica</i>	-	Treme1	NCBI	DOE JGI
609	<i>Tsuchiyaea wingfieldii</i>	-	Tsuc.wing.CBS7118_V1	NCBI	Broad
Trichosporonales					

No	Systematic Name	Common Name	Genome Version	Source	Submitter
610	<i>Cutaneotrichosporon oleaginosus</i>	-	Triol1	NCBI	DOE JGI
611	<i>Trichosporon asahii</i>	-	Trichosporon asahii 1	NCBI	Beijing Military Command General Hospital of PLA
USTILAGINOMYCETES					
Ustilaginales					
612	<i>Anthracozytis flocculosa</i>	-	Pfloc1.0	NCBI	Universite Laval
613	<i>Kalmanozyma brasiliensis</i>	-	PSEUBRA1	NCBI	Laboratorio Nacional de Ciencia e Tecnologia do Bioetanol
614	<i>Moesziomyces antarcticus</i>	-	ASM74776v1	NCBI	National Institute of Advanced Industrial Science and Technology
615	<i>Pseudozyma hubeiensis</i>	-	ASM40351v1	NCBI	Kitami Institute of Technology
616	<i>Ustilago maydis</i>	Common smut fungus	Umaydis521.2.0	NCBI	Broad
WALLEMIOMYCETES					
Wallemiales					
617	<i>Wallemia ichthyophaga</i>	-	Wallemia ichthyophaga version 1.0	NCBI	BGI
618	<i>Wallemia mellicola</i>	-	Wallemia sebi v1.0	NCBI	JGI
XYLONOMYCETES					
Xylonales					
619	<i>Xylona heveae</i>	Rubber tree fungus	Xylona heveae TC161 v1.0	NCBI	DOE JGI
TAPHRINOMYCOTINA INCERTAE SEDIS					
Taphrinomycotina					
620	<i>Saitoella complicata</i>	-	Saico1	NCBI	JGI-PSF
FUNGI INCERTAE SEDIS					
Mortierellales					
621	<i>Lobosporangium transversale</i>	-	Lobtra1	NCBI	DOE JGI
Mucorales					
622	<i>Phycomyces blakesleeanus</i>	-	Phybl2	NCBI	JGI-PSF
623	<i>Rhizopus microsporus</i>	Soil fungus	Rhimi1_1	NCBI	DOE JGI
Microsporidia					

No	Systematic Name	Common Name	Genome Version	Source	Submitter
624	<i>Encephalitozoon cuniculi</i>	Rabbit fungus	ASM9122v1	NCBI	Genoscope
625	<i>Encephalitozoon hellem</i>	-	ASM27781v3	NCBI	University of British Columbia
626	<i>Encephalitozoon intestinalis</i>	-	ASM14646v1	NCBI	University of British Columbia
627	<i>Encephalitozoon romaleae</i>	-	ASM28003v2	NCBI	University of Ottawa
628	<i>Enterocytozoon bieneusi</i>	-	ASM20948v1	NCBI	Tufts Cummings School of Veterinary Medicine
629	<i>Mitosporidium daphniae</i>	-	UGP1.0	NCBI	Illinois Institute of Technology
630	<i>Nematocida parisii</i>	Nematode-killer from Paris	Nema_parisii_ERTm1_V3	NCBI	Broad
631	<i>Nosema ceranae</i>	Microsporidian	ASM98816v1	NCBI	University of Ottawa
632	<i>Ordospora colligata</i>	-	ASM80326v1	NCBI	University of British Columbia
633	<i>Vavraia culicis</i>	Spore-forming parasite	Vavr_culi_floridensis_V1	NCBI	Broad
634	<i>Vittaforma corneae</i>	-	Vitt_corn_V1	NCBI	Broad
VIRIDIPLANTAE					
Mamiellales					
635	<i>Micromonas pusilla</i> CCMP1545	-	Micromonas pusilla CCMP1545 v2.0	NCBI	Micromonas Genome Consortium
636	<i>Micromonas sp. RCC299</i>	-	ASM9098v2	NCBI	Micromonas Genome Consortium
637	<i>Ostreococcus lucimarinus</i> CCE9901	-	ASM9206v1	NCBI	JGI
638	<i>Ostreococcus tauri</i>	-	version 050606	NCBI	Laboratoire Arago, France
Chlamydomonadales					
639	<i>Chlamydomonas reinhardtii</i>	-	v3.0	NCBI	JGI
Volvocales					
640	<i>Volvox carteri f. nagariensis</i>	-	v1.0	NCBI	JGI
Chlorellales					
641	<i>Chlorella variabilis</i>	-	v 1.0	NCBI	JGI

No	Systematic Name	Common Name	Genome Version	Source	Submitter
642	<i>Auxenochlorella protothecoides</i>	Green microalga	ASM73321v1	NCBI	BGI
643	<i>Helicosporidium</i> sp. <i>ATCC 50920</i>	-	Helico_v1.0	NCBI	University of British Columbia
Chlorococcales					
644	<i>Coccomyxa subellipsoidea</i> C-169	-	Coccomyxa subellipsoidae v2.0	NCBI	JGI
Klebsormidiales					
645	<i>Klebsormidium flaccidum</i>	-	ASM70883v1	NCBI	TokyoTech
Funariales					
646	<i>Physcomitrella patens</i>	-	V1.1	NCBI	Moss Genome Consortium
Selaginellales					
647	<i>Selaginella moellendorffii</i>	Spikemoss	v1.0	NCBI	Selaginella Consortium
Pinales					
648	<i>Pinus taeda</i>	Loblolly pine	PtaedaFosmidLib.0.8	NCBI	UC Davis
Amborellales					
649	<i>Amborella trichopoda</i>	Amborellaceae	AMTR1.0	NCBI	Amborella Genome Sequencing Project
Alismatales					
650	<i>Spirodela polyrhiza</i>	Greater duckweed	Spirodela_polyrhiza_v01	NCBI	Waksman Institute
Arecales					
651	<i>Phoenix dactylifera</i>	Date palm	DPV01	NCBI	Joint Center for Genomics Research
652	<i>Elaeis oleifera</i>	American oil palm	EO8	NCBI	Orion Genomics
Zingiberales					
653	<i>Ensete ventricosum</i>	Ethiopian banana	v1.1	NCBI	University of Exeter
654	<i>Musa acuminata</i> subsp. <i>malaccensis</i>	-	ASM31385v1	NCBI	Geno-scope/IG/CEA
Poales					
655	<i>Sorghum bicolor</i>	Sorghum	Sorbi1	NCBI	Sorghum Consortium
656	<i>Zea mays</i>	Maize	B73 RefGen_v3	NCBI	Maize Genome Sequencing Project
657	<i>Setaria italica</i>	Foxtail millet	Setaria V1	NCBI	JGI

No	Systematic Name	Common Name	Genome Version	Source	Submitter
658	<i>Brachypodium distachyon</i>	Purple false brome	v1.0	NCBI	JGI and The International Brachypodium Initiative
659	<i>Leersia perrieri</i>	-	Lperr_V1.4	NCBI	Arizona Genomics Institute
660	<i>Oryza barthii</i>	Rice	O.barthii_v1.3	NCBI	Oryza Chr3 Short Arm Comparative Sequencing Project
661	<i>Oryza brachyantha</i>	-	Oryza_brachyantha_v1.4b	NCBI	The Institute of Genetics and Developmental Biology
662	<i>Oryza glumipatula</i>	-	Oryza_glumipatula_v1.5	NCBI	OMAP
663	<i>Oryza longistaminata</i>	-	O_longistaminata_v1.0	NCBI	BGI
664	<i>Oryza meridionalis</i>	-	Oryza_meridionalis_v1.3	NCBI	OMAP
665	<i>Oryza nivara</i>	-	Oryza_nivara_v1.0	NCBI	OMAP
666	<i>Oryza punctata</i>	-	Oryza_punctata_v1.2	NCBI	OMAP
667	<i>Oryza sativa Japonica Group</i>	-	Build 4.0	NCBI	International Rice Genome Sequencing Project
668	<i>Zizania latifolia</i>	Manchurian wild rice	Zizania_latifolia_v01	NCBI	Zhejiang University
669	<i>Aegilops tauschii</i>	Tausch's goatgrass	ASM34733v1	NCBI	BGI
670	<i>Triticum urartu</i>	Wild einkorn	ASM34745v1	NCBI	BGI
Proteales					
671	<i>Nelumbo nucifera</i>	Sacred lotus	Chinese Lotus 1.1	NCBI	UIUC
Fabales					
672	<i>Lupinus angustifolius</i>	Blue lupin	Lupin genome scaffold	NCBI	Department of Agriculture and Food, WA government, Australia
673	<i>Phaseolus vulgaris</i>	Common bean	PhaVulg1_0	NCBI	JGI
674	<i>Cajanus cajan</i>	Pigeon pea	Cajanus_cajan_Asha_ver1.0	NCBI	AKI-PGI
675	<i>Vigna angularis var. angularis</i>	Adzuki bean	Vigna angularis	NCBI	SNU
676	<i>Vigna radiata var. radiata</i>	-	Vradiata_ver6	NCBI	SNU
677	<i>Glycine max</i>	Soybean	V1.1	NCBI	JGI

No	Systematic Name	Common Name	Genome Version	Source	Submitter
678	<i>Glycine soja</i>	-	W05v1.0	NCBI	CUHK
679	<i>Cicer arietinum</i>	Chickpea	ASM33114v1	NCBI	BGI
680	<i>Medicago truncatula</i>	Barrel clover	MedtrA17.3.5	NCBI	International Medicago Genome Annotation Group
681	<i>Trifolium pratense</i>	Red clover	Tp1.0	NCBI	Masaryk University
682	<i>Lotus japonicus</i>	Birdsfoot trefoil	ASM18111v1	NCBI	KDRI
Rosales					
683	<i>Malus x domestica</i>	Apple	MalDomGD1.0	NCBI	IASMA research center
684	<i>Pyrus x bretschneideri</i>	Chinese white pear	Pbr_v1.0	NCBI	Nanjing Agricultural University
685	<i>Prunus mume</i>	Japanese apricot	P.mume_V1.0	NCBI	BGI
686	<i>Prunus persica</i>	Peach	Prupe1_0	NCBI	JGI
687	<i>Fragaria iinumae</i>	Japanese strawberry	FII_r1.1	NCBI	KDRI
688	<i>Fragaria nubicola</i>	Himalayan strawberry	FNU_r1.1	NCBI	KDRI
689	<i>Fragaria orientalis</i>	Wild asian strawberry	FOR_r1.1	NCBI	KDRI
690	<i>Fragaria vesca subsp. vesca</i>	Woodland strawberry	FraVesHawaii_1.0	NCBI	Virginia Bioinformatics Institute
691	<i>Fragaria x ananassa</i>	Garden strawberry	FANhybrid_r1.2	NCBI	KDRI
692	<i>Morus notabilis</i>	Mulberry tree	ASM41409v2	NCBI	BGI
693	<i>Cannabis sativa</i>	Cannabis	canSat3	NCBI	University of Toronto
Fagales					
694	<i>Castanea mollissima</i>	Chinese chestnut	ASM76360v1	NCBI	Clemson University Genomics Institute
695	<i>Betula nana</i>	Dwarf birch	ASM32700v1	NCBI	QMUL
Cucurbitales					
696	<i>Cucumis melo</i>	Muskmelon	ASM31304v1	NCBI	Genetica Molecular, Centre de Recerca en Agrigenomica
697	<i>Cucumis sativus</i>	Cucumber	CucSat_1.0	NCBI	The Cucumber Genome Initiative

No	Systematic Name	Common Name	Genome Version	Source	Submitter
698	<i>Citrullus lanatus</i>	Watermelon	CiLa_1.0	NCBI	National Engineering Research Center for Vegetables, Beijing Academy of Agriculture and Forestry Sciences
699	<i>Lagenaria siceraria</i>	Calabash	Bottle_gourd	NCBI	Institute of Vegetables, Zhejiang Academy of Agricultural Sciences
Malpighiales					
700	<i>Populus euphratica</i>	Desert poplar	PopEup_1.0	NCBI	Lanzhou University
701	<i>Populus trichocarpa</i>	Black cottonwood	Poptr2_0	NCBI	JGI
702	<i>Jatropha curcas</i>	Physic nut	JatCur_1.0	NCBI	Chinese Academy of Sciences
703	<i>Manihot esculenta</i> subsp. <i>flabellifolia</i>	-	MW_v2d	NCBI	The Cassava Genome Consortium
704	<i>Ricinus communis</i>	Castor oil plant	JCVLR CG_1.1	NCBI	JCVI
705	<i>Linum usitatissimum</i>	Flax	LinUsi_v1.1	NCBI	TUFGEN
Myrtales					
706	<i>Eucalyptus camaldulensis</i>	River red gum	EUC_r1.0	NCBI	KDRI
707	<i>Eucalyptus grandis</i>	Rose gum	Egrandis1_0	NCBI	Geneglob
Brassicales					
708	<i>Carica papaya</i>	Papaya	Papaya1.0	NCBI	The Papaya Genome Sequencing Consortium
709	<i>Arabidopsis halleri</i> subsp. <i>gemmifera</i>	-	Ahal_1.0	NCBI	TokyoTech
710	<i>Arabidopsis lyrata</i> subsp. <i>lyrata</i>	-	v.1.0	NCBI	JGI
711	<i>Arabidopsis thaliana</i>	-	TAIR10	NCBI	The Arabidopsis Information Resource
712	<i>Camelina sativa</i>	Camelina	Cs	NCBI	Agriculture & AgriFood Canada
713	<i>Capsella rubella</i>	Capsella	Caprub1_0	NCBI	JGI

No	Systematic Name	Common Name	Genome Version	Source	Submitter
714	<i>Brassica napus</i>	Rapeseed	Brassica_napus_ assembly_v1.0	NCBI	BGI
715	<i>Brassica oleracea</i> var. <i>oleracea</i>	-	BOL	NCBI	CanSeq
716	<i>Brassica rapa</i>	Field mustard	Brapa_1.0	NCBI	Brassica rapa Genome Sequencing Project, BraGSP
717	<i>Raphanus raphanistrum</i> subsp. <i>raphanistrum</i>	-	ASM76984v1	NCBI	Michigan State University
718	<i>Raphanus sativus</i>	Radish	ASM80110v1	NCBI	Myongji University
719	<i>Aethionema arabicum</i>	-	VEGLAA_v_1.0	NCBI	McGill
720	<i>Arabis alpina</i>	Alpine rockcress	A_alpina_V4	NCBI	TRANSNET
721	<i>Eutrema parvulum</i>	-	Eutrema_parvulum_ v01	NCBI	University of Illinois
722	<i>Eutrema salsugineum</i>	Saltwater cress	Eutsalg1_0	NCBI	JGI
723	<i>Sisymbrium irio</i>	London rocket	VEGLSI_v_1.0	NCBI	McGill
724	<i>Leavenworthia alabamica</i>	Alabama glade cress	VEGLLA_v_1.0	NCBI	McGill
725	<i>Tarenaya hassleriana</i>	Pink queen	ASM46358v1	NCBI	BGI
Malvales					
726	<i>Gossypium arboreum</i>	Tree cotton	Gossypium_arboreum_ v1.0	NCBI	BGI
727	<i>Gossypium raimondii</i>	New world cotton	Graimondii2_0	NCBI	JGI
728	<i>Theobroma cacao</i>	Cacao	Theobroma_cacao_ 20110822	NCBI	Cacao Genome Consortium
729	<i>Aquilaria agallochum</i>	-	Aquilaria_agallocha_v1	NCBI	Academia Sinica
Sapindales					
730	<i>Azadirachta indica</i>	Indian lilac	AzaInd2.0	NCBI	Centre for Cellular and Molecular Platforms
731	<i>Citrus clementine</i>	Clementine	Citrus_clementina_v1.0	NCBI	International Citrus Genome Consortium
732	<i>Citrus sinensis</i>	Orange	Csi_valencia.1.0	NCBI	China Sweet Orange Genome Project
Vitales					
733	<i>Vitis vinifera</i>	Common grape vine	12X	NCBI	International Grape Genome Program
Caryophyllales					

No	Systematic Name	Common Name	Genome Version	Source	Submitter
734	<i>Amaranthus hypochondriacus</i>	Prince's feather	AHP 1.0	NCBI	Institute of Bioinformatics and Applied Biotechnology
735	<i>Amaranthus tuberculatus</i>	Tall waterhemp	ASM18065v1	NCBI	University of Illinois
736	<i>Beta vulgaris subsp. vulgaris</i>	-	RefBeet-1.2.1	NCBI	Beta vulgaris Resource
737	<i>Spinacia oleracea</i>	Spinach	Viroflay-1.0.1	NCBI	BeetSeq
738	<i>Dianthus caryophyllus</i>	Clove pink	DCA_r1.0	NCBI	KDRI
Ericales					
739	<i>Actinidia chinensis</i>	Kiwi fruit	Kiwifruit_v1	NCBI	Boyce Thompson Institute
740	<i>Vaccinium macrocarpon</i>	Large cranberry	ASM77533v1	NCBI	Rutgers University
741	<i>Diospyros lotus</i>	Caucasian persimmon	ASM77412v1	NCBI	University of California Davis
742	<i>Primula veris</i>	Cowslip	ASM78844v1	NCBI	University of Zurich
Solanales					
743	<i>Solanum arcanum</i>	-	Soarc10	NCBI	PRI
744	<i>Solanum habrochaites</i>	-	Sohab10	NCBI	PRI
745	<i>Solanum lycopersicum</i>	Tomato	SL2.40	NCBI	Solanaceae Genomics Project
746	<i>Solanum melongena</i>	Eggplant	SME_r2.5.1	NCBI	KDRI
747	<i>Solanum pennellii</i>	-	Sopen10	NCBI	PRI
748	<i>Solanum pimpinellifolium</i>	Currant tomato	Sol_pimpi_v1.0	NCBI	Sol Genomics Network
749	<i>Solanum tuberosum</i>	Potato	SolTub_3.0	NCBI	Potato Genome Sequencing Consortium
750	<i>Capsicum annuum</i>	Hot pepper	PGA_v1.5	NCBI	SNU
751	<i>Nicotiana sylvestris</i>	Woodland tobacco	Nsyl	NCBI	Philip Morris International R&D
752	<i>Nicotiana tomentosiformis</i>	-	Ntom_v01	NCBI	Philip Morris International R&D
Lamiales					
753	<i>Fraxinus excelsior</i>	European ash	BATG-0.4	NCBI	QMUL
754	<i>Penstemon centranthifolius</i>	Scarlet bugler	ASM73743v1	NCBI	Ohio State University
755	<i>Penstemon grinnellii</i>	Grinnell's beardtongue	ASM73742v1	NCBI	Ohio State University

No	Systematic Name	Common Name	Genome Version	Source	Submitter
756	<i>Sesamum indicum</i>	Sesame	S_indicum_v1.0	NCBI	Oil Crops Research Institute of the Chinese Academy of Agricultural Sciences
757	<i>Genlisea aurea</i>	Corkscrew plant	GenAur_1.0	NCBI	Lomonosov Moscow State University, Evolutionary Genomics Laboratory
758	<i>Mimulus guttatus</i>	Common monkey-flower	Mimgu1_0	NCBI	JGI
Asterales					
759	<i>Conyza canadensis</i>	Horseweed	ASM77593v1	NCBI	University of Tennessee

Table S2: L1s in genomic data

Table S2: Shows which genomes contain L1s (559/759) and the number of hits and length distribution of hits. L1 elements were detected with protein based searches using TBLASTN and nucleotide similarity searches using LASTZ. All hits had to satisfy a ‘reciprocal best hit’ check: they were screened with CENSOR against the Repbase library of known repeats, and kept if the best hit was an L1 element (not some other repeat). Overlapping hits were merged to produce a non-redundant set of L1s for each genome. The Notes column highlights unusual observations.

Species	# L1 hits	Length distribution (bp)	Notes
METAZOA			
MAMMALIA			
<i>Tachyglossus aculeatus</i>	0	-	
<i>Ornithorhynchus anatinus</i>	0	-	3 tiny fragments found in platypus while mining for L1s. Checked against a pacbio assembly - found 6 similar fragments, but all are flanked by L2 and L3 5' and 3' elements. More likely to be of the L2/CR1 clade.
<i>Monodelphis domestica</i>	368300	min 26, median 396, max 12466	
<i>Macropus eugenii</i>	120437	min 29, median 469, max 7787	
<i>Sarcophilus harrisii</i>	132100	min 26, median 264, max 8834	
<i>Dasypus novemcinctus</i>	249548	min 26, median 503, max 13923	
<i>Choloepus hoffmanni</i>	166782	min 35, median 612, max 11920	
<i>Chrysochloris asiatica</i>	188020	min 26, median 320, max 7157	
<i>Echinops telfairi</i>	80067	min 26, median 347, max 7224	
<i>Orycteropus afer afer</i>	280733	min 26, median 338, max 10311	
<i>Elephantulus edwardii</i>	337288	min 26, median 302, max 7108	
<i>Trichechus manatus latirostris</i>	230983	min 26, median 435, max 14101	
<i>Procapra capensis</i>	156595	min 32, median 736, max 11303	
<i>Loxodonta africana</i>	253130	min 26, median 474, max 14036	
<i>Erinaceus europaeus</i>	130943	min 26, median 308, max 10024	
<i>Sorex araneus</i>	133563	min 26, median 332, max 10424	
<i>Condylura cristata</i>	89051	min 26, median 275, max 7199	
<i>Pteropus alecto</i>	148833	min 26, median 401, max 12178	
<i>Pteropus vampyrus</i>	86961	min 32, median 309, max 9856	
<i>Eidolon helvum</i>	67966	min 32, median 219, max 8961	
<i>Megaderma lyra</i>	58222	min 32, median 210, max 9765	
<i>Rhinolophus ferrumequinum</i>	75604	min 33, median 212, max 9717	
<i>Pteronotus parnellii</i>	69432	min 32, median 188, max 9062	
<i>Eptesicus fuscus</i>	110090	min 26, median 315, max 11254	
<i>Myotis brandtii</i>	120200	min 26, median 317, max 10288	
<i>Myotis davidii</i>	95878	min 26, median 267, max 11658	
<i>Myotis lucifugus</i>	118834	min 26, median 366, max 12207	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Ceratotherium simum simum</i>	197102	min 26, median 392, max 12095	
<i>Equus przewalskii</i>	123829	min 29, median 377, max 15366	
<i>Equus caballus</i> (Thoroughbred)	200731	min 26, median 410, max 13504	
<i>Equus caballus</i> (Mongolian)	115028	min 32, median 324, max 15282	
<i>Manis pentadactyla</i>	133451	min 29, median 195, max 10267	
<i>Felis catus</i>	206663	min 26, median 371, max 11426	
<i>Panthera tigris altaica</i>	195025	min 26, median 385, max 13604	
<i>Canis lupus familiaris</i>	189577	min 26, median 368, max 11672	
<i>Ursus maritimus</i>	193442	min 26, median 378, max 13373	
<i>Ailuropoda melanoleuca</i>	124602	min 26, median 289, max 11844	
<i>Leptonychotes weddellii</i>	146135	min 26, median 330, max 10738	
<i>Odobenus rosmarus divergens</i>	164744	min 26, median 371, max 11279	
<i>Mustela putorius furo</i>	193128	min 26, median 362, max 10819	
<i>Camelus dromedarius</i>	155118	min 26, median 344, max 11206	
<i>Camelus ferus</i>	132511	min 26, median 328, max 11795	
<i>Vicugna pacos</i>	194213	min 26, median 346, max 10598	
<i>Sus scrofa</i> (Duroc)	251960	min 26, median 350, max 11196	
<i>Sus scrofa</i> (Tibetan)	169743	min 26, median 383, max 13253	
<i>Sus scrofa</i> (Ellegaard Gottingen minipig)	143892	min 29, median 372, max 11185	
<i>Balaenoptera acutorostrata scammoni</i>	239254	min 26, median 401, max 10933	
<i>Physeter catodon</i>	162334	min 29, median 407, max 13070	
<i>Lipotes vexillifer</i>	198338	min 26, median 458, max 15715	
<i>Tursiops truncatus</i>	206606	min 29, median 296, max 14307	
<i>Orcinus orca</i>	243602	min 26, median 415, max 12828	
<i>Pantholops hodgsonii</i>	140895	min 26, median 293, max 10045	
<i>Capra hircus</i>	172850	min 26, median 307, max 11295	
<i>Ovis aries</i> (Texel)	170755	min 26, median 320, max 12550	
<i>Ovis aries musimon</i>	118754	min 26, median 287, max 12652	
<i>Bubalus bubalis</i>	170578	min 26, median 372, max 16417	
<i>Bison bison bison</i>	222104	min 26, median 366, max 12472	
<i>Bos mutus</i>	125229	min 26, median 291, max 12276	
<i>Bos indicus</i>	162944	min 26, median 329, max 12582	
<i>Bos taurus</i>	183282	min 26, median 338, max 12798	
<i>Ochotona princeps</i>	63231	min 26, median 319, max 7183	
<i>Oryctolagus cuniculus</i>	165637	min 26, median 386, max 13252	
<i>Ictidomys tridecemlineatus</i>	153340	min 29, median 359, max 8996	
<i>Heterocephalus glaber</i>	211256	min 26, median 365, max 9489	
<i>Fukomys damarensis</i>	179459	min 26, median 377, max 10470	
<i>Cavia aperea</i>	215721	min 26, median 344, max 12977	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Cavia porcellus</i>	202062	min 26, median 524, max 13197	
<i>Chinchilla lanigera</i>	162543	min 26, median 374, max 9883	
<i>Octodon degus</i>	181971	min 26, median 365, max 7751	
<i>Dipodomys ordii</i>	39663	min 29, median 111, max 7728	
<i>Jaculus jaculus</i>	132427	min 26, median 365, max 7362	
<i>Nannospalax galili</i>	136751	min 26, median 407, max 7868	
<i>Mesocricetus auratus</i>	117603	min 26, median 374, max 9681	
<i>Cricetulus griseus</i>	90706	min 26, median 329, max 11338	
<i>Microtus ochrogaster</i>	91178	min 26, median 332, max 6404	
<i>Peromyscus maniculatus bairdii</i>	72159	min 26, median 335, max 9389	
<i>Rattus norvegicus</i>	193696	min 26, median 518, max 11866	
<i>Mus musculus</i>	197761	min 26, median 502, max 18858	
<i>Tupaia belangeri</i>	68588	min 32, median 463, max 10269	
<i>Tupaia chinensis</i>	110904	min 26, median 393, max 11021	
<i>Galeopterus variegatus</i>	176635	min 26, median 174, max 9846	
<i>Otolemur garnettii</i>	196900	min 26, median 363, max 8925	
<i>Microcebus murinus</i>	106690	min 32, median 286, max 10808	
<i>Tarsius syrichta</i>	186988	min 26, median 385, max 16139	
<i>Callithrix jacchus</i>	271588	min 26, median 430, max 12568	
<i>Saimiri boliviensis boliviensis</i>	203913	min 26, median 397, max 11877	
<i>Rhinopithecus roxellana</i>	185188	min 26, median 443, max 15293	
<i>Nasalis larvatus</i>	202605	min 26, median 395, max 10716	
<i>Chlorocebus sabaeus</i>	233704	min 26, median 386, max 12077	
<i>Macaca fascicularis</i>	252545	min 26, median 400, max 13479	
<i>Macaca mulatta</i>	238315	min 26, median 329, max 10898	
<i>Papio anubis</i>	263380	min 26, median 404, max 14592	
<i>Nomascus leucogenys</i>	244864	min 26, median 416, max 14766	
<i>Pongo abelii</i>	297567	min 26, median 421, max 13087	
<i>Gorilla gorilla gorilla</i>	263332	min 26, median 395, max 27891	
<i>Pan paniscus</i>	233415	min 26, median 440, max 14715	
<i>Pan troglodytes</i>	264123	min 26, median 410, max 16238	
<i>Homo sapiens</i>	257636	min 26, median 406, max 18773	
SAUROPSIDA			
<i>Apalone spinifera</i>	2560	min 29, median 372, max 5911	
<i>Pelodiscus sinensis</i>	2031	min 32, median 511, max 7157	
<i>Chelonia mydas</i>	5240	min 32, median 477, max 8320	
<i>Chrysemys picta bellii</i>	3714	min 32, median 551, max 8573	
<i>Struthio camelus australis</i>	61	min 75, median 254, max 3825	
<i>Tinamus guttatus</i>	27	min 83, median 281, max 1197	
<i>Anas platyrhynchos</i>	51	min 98, median 236, max 4578	
<i>Lyrurus tetrix tetrix</i>	21	min 72, median 248, max 780	
<i>Gallus gallus</i>	22	min 87, median 192, max 4412	
<i>Coturnix japonica</i>	8	min 82, median 146, max 893	
<i>Meleagris gallopavo</i>	14	min 86, median 230, max 4020	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Colinus virginianus</i>	127	min 70, median 357, max 4090	
<i>Acanthisitta chloris</i>	42	min 90, median 287, max 4493	
<i>Manacus vitellinus</i>	36	min 102, median 251, max 4602	
<i>Zonotrichia albicollis</i>	37	min 65, median 211, max 4512	
<i>Geospiza fortis</i>	27	min 114, median 272, max 4489	
<i>Serinus canaria</i>	386	min 61, median 103, max 4516	
<i>Taeniopygia guttata</i>	30	min 84, median 258, max 4354	
<i>Ficedula albicollis</i>	34	min 108, median 272, max 4569	
<i>Pseudopodoces humilis</i>	40	min 68, median 227, max 4312	
<i>Corvus brachyrhynchos</i>	57	min 68, median 248, max 4515	
<i>Corvus cornix cornix</i>	43	min 76, median 257, max 4586	
<i>Ara macao</i>	50	min 107, median 278, max 2083	
<i>Amazona vittata</i>	63	min 72, median 268, max 3513	
<i>Melopsittacus undulatus</i>	38	min 73, median 280, max 3737	
<i>Nestor notabilis</i>	54	min 95, median 267, max 3928	
<i>Falco cherrug</i>	59	min 101, median 280, max 4512	
<i>Falco peregrinus</i>	58	min 86, median 276, max 3806	
<i>Cariama cristata</i>	62	min 125, median 273, max 4604	
<i>Merops nubicus</i>	40	min 121, median 269, max 4075	
<i>Picoides pubescens</i>	37	min 72, median 212, max 641	
<i>Buceros rhinoceros silvestris</i>	43	min 71, median 289, max 4513	
<i>Apaloderma vittatum</i>	32	min 117, median 316, max 3858	
<i>Leptosomus discolor</i>	46	min 128, median 267, max 3646	
<i>Haliaeetus albicilla</i>	65	min 116, median 290, max 4593	
<i>Haliaeetus leucocephalus</i>	68	min 85, median 290, max 4600	
<i>Aquila chrysaetos canadensis</i>	64	min 127, median 291, max 4567	
<i>Cathartes aura</i>	81	min 89, median 305, max 4211	
<i>Tyto alba</i>	100	min 75, median 272, max 4540	
<i>Colius striatus</i>	42	min 85, median 275, max 4391	
<i>Charadrius vociferus</i>	64	min 106, median 290, max 4520	
<i>Balearica regulorum gibbericeps</i>	61	min 111, median 316, max 4608	
<i>Chlamydotis macqueenii</i>	57	min 69, median 270, max 4065	
<i>Cuculus canorus</i>	42	min 119, median 252, max 3744	
<i>Fulmarus glacialis</i>	68	min 70, median 280, max 4628	
<i>Aptenodytes forsteri</i>	79	min 76, median 269, max 4724	
<i>Pygoscelis adeliae</i>	75	min 89, median 281, max 4834	
<i>Phalacrocorax carbo</i>	57	min 50, median 289, max 3731	
<i>Pelecanus crispus</i>	57	min 121, median 286, max 4581	
<i>Nipponia nippon</i>	71	min 76, median 296, max 4564	
<i>Egretta garzetta</i>	66	min 92, median 276, max 4598	
<i>Phaethon lepturus</i>	47	min 151, median 308, max 4615	
<i>Gavia stellata</i>	74	min 88, median 262, max 4577	
<i>Tauraco erythrolophus</i>	45	min 115, median 289, max 4514	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Opisthocomus hoazin</i>	80	min 47, median 326, max 4184	
<i>Columba livia</i>	55	min 109, median 281, max 4523	
<i>Pterocles gutturalis</i>	56	min 106, median 279, max 4508	
<i>Calypte anna</i>	31	min 137, median 286, max 3924	
<i>Chaetura pelagica</i>	29	min 100, median 253, max 4553	
<i>Caprimulgus carolinensis</i>	68	min 83, median 268, max 4374	
<i>Eurypyga helias</i>	41	min 102, median 251, max 4514	
<i>Mesitornis unicolor</i>	41	min 130, median 300, max 4484	
<i>Podiceps cristatus</i>	50	min 127, median 282, max 4730	
<i>Phoenicopterus ruber ruber</i>	77	min 124, median 278, max 4626	
<i>Alligator mississippiensis</i>	4412	min 32, median 624, max 13520	
<i>Alligator sinensis</i>	6253	min 29, median 569, max 9201	
<i>Crocodylus porosus</i>	3948	min 32, median 579, max 7709	
<i>Gavialis gangeticus</i>	3989	min 29, median 592, max 13044	
<i>Pogona vitticeps</i>	6767	min 32, median 440, max 4971	
<i>Anolis carolinensis</i>	12551	min 26, median 518, max 9160	
<i>Vipera berus berus</i>	5714	min 41, median 585, max 5375	
<i>Crotalus mitchellii pyrrhus</i>	3591	min 53, median 390, max 4019	
<i>Ophiophagus hannah</i>	9742	min 38, median 364, max 6767	
<i>Python bivittatus</i>	4679	min 38, median 542, max 5737	
AMPHIBIA			
<i>Nanorana parkeri</i>	18787	min 38, median 767, max 5619	
<i>Xenopus laevis</i>	26764	min 32, median 623, max 6227	
<i>Xenopus tropicalis</i>	8638	min 32, median 659, max 9353	
NEOPTERYGII			
<i>Lepisosteus oculatus</i>	876	min 65, median 596, max 5363	
<i>Anguilla anguilla</i>	1672	min 47, median 422, max 5766	
<i>Anguilla japonica</i>	1833	min 53, median 517, max 5112	
<i>Danio rerio</i>	5140	min 29, median 614, max 8441	
<i>Astyanax mexicanus</i>	975	min 41, median 479, max 4962	
<i>Oryzias latipes</i>	4496	min 41, median 641, max 5918	
<i>Poecilia formosa</i>	1505	min 29, median 659, max 5676	
<i>Xiphophorus maculatus</i>	1217	min 47, median 652, max 5655	
<i>Fundulus heteroclitus</i>	2825	min 38, median 617, max 5485	
<i>Takifugu flavidus</i>	709	min 59, median 564, max 5147	
<i>Takifugu rubripes</i>	825	min 44, median 553, max 5497	
<i>Tetraodon nigroviridis</i>	232	min 32, median 539, max 5422	
<i>Cynoglossus semilaevis</i>	196	min 73, median 383, max 4385	
<i>Haplochromis burtoni</i>	1666	min 44, median 729, max 6085	
<i>Pundamilia nyererei</i>	1852	min 41, median 695, max 5895	
<i>Maylandia zebra</i>	2116	min 44, median 680, max 6900	
<i>Neolamprologus brichardi</i>	1915	min 47, median 620, max 5431	
<i>Oreochromis niloticus</i>	3265	min 47, median 698, max 6629	
<i>Sebastes nigrocinctus</i>	912	min 74, median 494, max 6241	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Sebastes rubrivinctus</i>	878	min 68, median 507, max 6040	
<i>Gasterosteus aculeatus</i>	507	min 71, median 493, max 4992	
<i>Gadus morhua</i>	1635	min 44, median 410, max 5389	
CHONDRICHTHYES			
<i>Callorhinchus milii</i>	209	min 32, median 368, max 2778	
<i>Carcharhinus brachyurus</i>	3388	min 44, median 200, max 5019	
ECDYSOZOA			
<i>Ephemera danica</i>	114	min 56, median 700, max 3669	
<i>Ladona fulva</i>	477	min 38, median 770, max 3645	
<i>Pediculus humanus corporis</i>	68	min 89, median 308, max 1819	
<i>Frankliniella occidentalis</i>	193	min 70, median 256, max 4011	
<i>Diaphorina citri</i>	1175	min 75, median 289, max 3389	
<i>Pachypsylla venusta</i>	243	min 84, median 217, max 2029	
<i>Acyrtosiphon pisum</i>	155	min 80, median 672, max 2723	
<i>Nilaparvata lugens</i>	2093	min 44, median 452, max 8772	
<i>Oncopeltus fasciatus</i>	244	min 72, median 203, max 1815	
<i>Rhodnius prolixus</i>	165	min 74, median 641, max 3250	
<i>Cimex lectularius</i>	1070	min 81, median 203, max 2489	
<i>Onthophagus taurus</i>	161	min 83, median 669, max 2726	
<i>Agilus planipennis</i>	197	min 35, median 455, max 2009	
<i>Tribolium castaneum</i>	34	min 53, median 686, max 2591	
<i>Anoplophora glabripennis</i>	121	min 83, median 611, max 2501	
<i>Leptinotarsa decemlineata</i>	484	min 59, median 785, max 2698	
<i>Dendroctonus ponderosae</i>	135	min 53, median 569, max 2322	
<i>Mengenilla moldrzyki</i>	15	min 73, median 189, max 2534	
<i>Aedes aegypti</i>	3589	min 38, median 737, max 5629	
<i>Culex quinquefasciatus</i>	947	min 41, median 743, max 5511	
<i>Anopheles albimanus</i>	45	min 88, median 192, max 4306	
<i>Anopheles arabiensis</i>	179	min 59, median 442, max 3029	
<i>Anopheles atroparvus</i>	191	min 71, median 516, max 2842	
<i>Anopheles christyi</i>	112	min 89, median 446, max 2247	
<i>Anopheles culicifacies</i>	279	min 62, median 407, max 3851	
<i>Anopheles darlingi</i>	35	min 71, median 176, max 3308	
<i>Anopheles dirus</i>	390	min 88, median 575, max 3077	
<i>Anopheles epiroticus</i>	194	min 41, median 486, max 4385	
<i>Anopheles farauti</i>	403	min 59, median 520, max 4720	
<i>Anopheles funestus</i>	192	min 70, median 551, max 4515	
<i>Anopheles gambiae</i>	321	min 35, median 546, max 4880	
<i>Anopheles maculatus</i>	97	min 65, median 533, max 2325	
<i>Anopheles melas</i>	138	min 71, median 376, max 3158	
<i>Anopheles merus</i>	250	min 65, median 425, max 4176	
<i>Anopheles minimus</i>	163	min 107, median 493, max 3995	
<i>Anopheles quadriannulatus</i>	185	min 65, median 399, max 3170	
<i>Anopheles sinensis</i>	104	min 92, median 499, max 4494	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Anopheles stephensi</i>	110	min 91, median 494, max 3220	
<i>Mayetiola destructor</i>	29	min 83, median 677, max 2666	
<i>Lutzomyia longipalpis</i>	11	min 150, median 1016, max 2372	
<i>Phlebotomus papatasi</i>	36	min 68, median 1082, max 2675	
<i>Ceratitis capitata</i>	112	min 53, median 335, max 7274	
<i>Drosophila albomicans</i>	50	min 73, median 136, max 1699	
<i>Drosophila ananassae</i>	24	min 68, median 179, max 1091	
<i>Drosophila biarmipes</i>	25	min 78, median 225, max 1759	
<i>Drosophila bipectinata</i>	19	min 68, median 329, max 1503	
<i>Drosophila elegans</i>	32	min 63, median 186, max 1241	
<i>Drosophila erecta</i>	24	min 82, median 200, max 956	
<i>Drosophila eugracilis</i>	25	min 89, median 227, max 1472	
<i>Drosophila ficusphila</i>	77	min 88, median 758, max 3911	
<i>Drosophila grimshawi</i>	70	min 76, median 114, max 882	
<i>Drosophila kikkawai</i>	36	min 87, median 221, max 1311	
<i>Drosophila melanogaster</i>	16	min 97, median 134, max 2001	
<i>Drosophila miranda</i>	30	min 76, median 148, max 4515	
<i>Drosophila mojavensis</i>	113	min 68, median 210, max 1345	
<i>Drosophila persimilis</i>	36	min 67, median 122, max 837	
<i>Drosophila pseudoobscura</i> <i>pseudoobscura</i>	34	min 70, median 157, max 953	
<i>Drosophila rhopaloa</i>	18	min 104, median 179, max 1143	
<i>Drosophila sechellia</i>	17	min 92, median 225, max 629	
<i>Drosophila simulans</i>	19	min 77, median 169, max 531	
<i>Drosophila sukukii</i>	38	min 86, median 174, max 5555	
<i>Drosophila takahashii</i>	26	min 96, median 180, max 1660	
<i>Drosophila virilis</i>	68	min 69, median 125, max 2055	
<i>Drosophila willistoni</i>	41	min 72, median 152, max 1050	
<i>Drosophila yakuba</i>	22	min 66, median 182, max 2240	
<i>Musca domestica</i>	117	min 44, median 393, max 2615	
<i>Glossina austeni</i>	156	min 71, median 187, max 1413	
<i>Glossina brevipalpis</i>	188	min 81, median 232, max 1514	
<i>Glossina fuscipes fuscipes</i>	162	min 69, median 169, max 2801	
<i>Glossina morsitans</i> <i>morsitans</i>	151	min 72, median 176, max 2225	
<i>Glossina pallidipes</i>	139	min 75, median 168, max 1505	
<i>Limnephilus lunatus</i>	105	min 44, median 266, max 1604	
<i>Papilio glaucus</i>	144	min 35, median 410, max 1434	
<i>Papilio polytes</i>	13	min 126, median 275, max 2819	
<i>Papilio xuthus</i>	22	min 138, median 1647, max 2328	
<i>Heliconius melpomene</i> <i>melpomene</i>	12	min 89, median 150, max 2300	
<i>Melitaea cinxia</i>	30	min 85, median 213, max 2459	
<i>Danaus plexippus</i>	27	min 71, median 416, max 3429	
<i>Bombyx mori</i>	4934	min 82, median 306, max 2427	
<i>Manduca sexta</i>	33	min 70, median 772, max 2360	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Plutella xylostella</i>	143	min 80, median 1475, max 2747	
<i>Athalia rosae</i>	26	min 64, median 214, max 2468	
<i>Cephus cinctus</i>	52	min 94, median 300, max 2198	
<i>Orussus abietinus</i>	31	min 89, median 362, max 1745	
<i>Ceratosolen solmsi marchali</i>	258	min 75, median 163, max 1425	
<i>Nasonia giraulti</i>	41	min 76, median 206, max 2043	
<i>Nasonia longicornis</i>	32	min 83, median 200, max 2489	
<i>Nasonia vitripennis</i>	84	min 67, median 151, max 2216	
<i>Copidosoma floridanum</i>	157	min 74, median 386, max 2177	
<i>Trichogramma pretiosum</i>	53	min 80, median 440, max 2543	
<i>Microplitis demolitor</i>	139	min 88, median 929, max 2435	
<i>Megachile rotundata</i>	98	min 85, median 616, max 2474	
<i>Apis dorsata</i>	31	min 95, median 247, max 1367	
<i>Apis florea</i>	42	min 73, median 174, max 1045	
<i>Apis mellifera</i>	35	min 85, median 199, max 2018	
<i>Bombus impatiens</i>	69	min 80, median 603, max 2302	
<i>Bombus terrestris</i>	52	min 90, median 301, max 1412	
<i>Linepithema humile</i>	54	min 77, median 209, max 2480	
<i>Camponotus floridanus</i>	37	min 86, median 232, max 9746	
<i>Acromyrmex echinator</i>	79	min 68, median 163, max 2261	
<i>Atta cephalotes</i>	54	min 71, median 149, max 3899	
<i>Solenopsis invicta</i>	78	min 81, median 177, max 2619	
<i>Pogonomyrmex barbatus</i>	29	min 85, median 196, max 1617	
<i>Harpegnathos saltator</i>	294	min 83, median 187, max 1510	
<i>Cerapachys biroi</i>	47	min 68, median 191, max 1883	
<i>Blattella germanica</i>	2437	min 47, median 688, max 4506	
<i>Zootermopsis nevadensis</i>	91	min 47, median 488, max 2552	
<i>Locusta migratoria</i>	6154	min 29, median 973, max 5039	
<i>Daphnia pulex</i>	284	min 44, median 744, max 5142	
<i>Eurytemora affinis</i>	404	min 85, median 450, max 3719	
<i>Lepeophtheirus salmonis</i>	18478	min 26, median 473, max 4755	
<i>Hyalella azteca</i>	211	min 41, median 287, max 2477	
<i>Strigamia maritima</i>	62	min 90, median 855, max 3003	
<i>Stegodyphus mimosarum</i>	929	min 65, median 1223, max 2759	
<i>Latrodectus hesperus</i>	273	min 56, median 770, max 2636	
<i>Parasteatoda tepidariorum</i>	125	min 98, median 1082, max 2492	
<i>Tetranychus urticae</i>	54	min 104, median 273, max 1964	
<i>Dermatophagoides farinae</i>	14	min 109, median 164, max 1677	
<i>Sarcoptes scabiei type canis</i>	49	min 83, median 233, max 2369	
<i>Achipteria coleoptrata</i>	9	min 90, median 819, max 2525	
<i>Hypochthonius rufulus</i>	22	min 81, median 302, max 2180	
<i>Platynothrus peltifer</i>	17	min 203, median 833, max 1340	
<i>Steganacarus magnus</i>	39	min 107, median 362, max 2664	
<i>Ixodes ricinus</i>	871	min 41, median 992, max 4181	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Ixodes scapularis</i>	2134	min 41, median 830, max 4043	
<i>Rhipicephalus microplus</i>	216	min 134, median 673, max 3144	
<i>Metaseiulus occidentalis</i>	75	min 96, median 1058, max 1820	
<i>Varroa destructor</i>	19	min 95, median 168, max 692	
<i>Centruroides exilicauda</i>	729	min 62, median 1001, max 3491	
<i>Mesobuthus martensii</i>	370	min 75, median 857, max 4684	
<i>Limulus polyphemus</i>	583	min 44, median 674, max 4269	
<i>Trichinella spiralis</i>	15	min 79, median 284, max 1578	
<i>Ascaris suum</i>	41	min 98, median 694, max 2568	
<i>Elaeophora elaphi</i>	0	-	
<i>Onchocerca volvulus</i>	0	-	
<i>Steinernema monticolum</i>	42	min 85, median 405, max 824	
<i>Panagrellus redivivus</i>	16	min 102, median 495, max 2278	
<i>Haemonchus contortus</i>	721	min 38, median 398, max 2289	
<i>Necator americanus</i>	50	min 77, median 553, max 1634	
<i>Heterorhabditis bacteriophora</i>	1	min 244, median 244, max 244	
<i>Caenorhabditis angaria</i>	16	min 139, median 215, max 1606	
<i>Caenorhabditis brenneri</i>	42	min 107, median 457, max 3145	
<i>Caenorhabditis briggsae</i>	19	min 93, median 240, max 1476	
<i>Caenorhabditis elegans</i>	12	min 211, median 401, max 922	
<i>Caenorhabditis japonica</i>	56	min 38, median 662, max 2528	
<i>Caenorhabditis sp. 11</i> <i>MAF-2010</i>	14	min 93, median 308, max 1032	
<i>Priapulus caudatus</i>	296	min 53, median 329, max 3346	
ROTIFERA			
<i>Adineta vaga</i>	45	min 111, median 653, max 3304	
PLATYHELMINTHES			
<i>Schistosoma curassoni</i>	173	min 52, median 64, max 2248	
<i>Schistosoma haematobium</i>	159	min 50, median 62, max 2059	
<i>Schistosoma japonicum</i>	136	min 44, median 464, max 6036	
<i>Schistosoma mansoni</i>	98	min 54, median 61, max 2968	
<i>Schistosoma margrebowiei</i>	142	min 50, median 62, max 3942	
<i>Schistosoma mattheei</i>	125	min 51, median 62, max 5065	
<i>Schistosoma rodhaini</i>	95	min 51, median 62, max 4927	
<i>Clonorchis sinensis</i>	411	min 50, median 213, max 2207	
<i>Echinococcus granulosus</i>	4	min 688, median 1110, max 1514	
<i>Echinococcus multilocularis</i>	8	min 128, median 341, max 1246	
<i>Hymenolepis microstoma</i>	7	min 92, median 719, max 1445	
<i>Protopolystoma xenopodis</i>	25	min 140, median 779, max 4759	
ANNELIDA			
<i>Capitella teleta</i>	25	min 89, median 452, max 2708	
<i>Helobdella robusta</i>	652	min 35, median 437, max 2483	
MOLLUSCA			
<i>Crassostrea gigas</i>	1344	min 47, median 911, max 6771	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Lottia gigantea</i>	559	min 59, median 862, max 5151	
<i>Aplysia californica</i>	1819	min 47, median 216, max 7250	
<i>Biomphalaria glabrata</i>	761	min 53, median 253, max 3280	
CNIDARIA			
<i>Nematostella vectensis</i>	191	min 74, median 569, max 5309	
<i>Hydra vulgaris</i>	1607	min 35, median 678, max 5900	
TENTACULATA			
<i>Mnemiopsis leidyi</i>	68	min 93, median 868, max 2366	
PLACOZOA			
<i>Trichoplax adhaerens</i>	0	-	
ECHINOIDEA			
<i>Amphimedon queenslandica</i>	12	min 110, median 580, max 1238	
<i>Lytechinus variegatus</i>	2319	min 44, median 470, max 5196	
<i>Strongylocentrotus purpuratus</i>	4014	min 32, median 398, max 6094	
ASTEROIDEA			
<i>Patiria miniata</i>	328	min 59, median 704, max 4514	
ENTEROPNEUSTA			
<i>Saccoglossus kowalevskii</i>	2412	min 32, median 670, max 6255	
TUNICATA			
<i>Ciona intestinalis</i>	110	min 77, median 546, max 4833	
<i>Ciona savignyi</i>	2744	min 38, median 839, max 11990	
<i>Botryllus schlosseri</i>	726	min 68, median 1564, max 4179	
<i>Oikopleura dioica</i>	5	min 282, median 983, max 2117	
LEPTOCARDII			
<i>Branchiostoma floridae</i>	759	min 53, median 845, max 5842	
CEPHALASPIDOMORPHI			
<i>Lethenteron camtschaticum</i>	918	min 47, median 651, max 6536	
<i>Petromyzon marinus</i>	529	min 44, median 644, max 7409	
SARCOPTERYGII			
<i>Latimeria chalumnae</i>	12303	min 38, median 739, max 12520	
FUNGI			
<i>Agaricus bisporus</i> var. <i>bisporus</i>	14	min 527, median 1358, max 3596	
<i>Agaricus bisporus</i> var. <i>burnettii</i>	15	min 674, median 1490, max 3473	
<i>Schizophyllum commune</i>	2	min 2963, median 2963, max 3002	
<i>Coprinopsis cinerea</i>	4	min 1052, median 1184, max 2629	
<i>Moniliophthora roreri</i>	2	min 908, median 908, max 3198	
<i>Laccaria bicolor</i>	2	min 1262, median 1262, max 2974	
<i>Auricularia subglabra</i>	73	min 650, median 3038, max 3746	
<i>Coniophora puteana</i>	7	min 515, median 1616, max 3560	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Serpula lacrymans</i>	0	-	
<i>Punctularia strigosozonata</i>	15	min 965, median 3182, max 3689	
<i>Gloeophyllum trabeum</i>	11	min 428, median 1256, max 3527	
<i>Fomitiporia mediterranea</i>	1	min 1142, median 1142, max 1142	
<i>Dichomitus squalens</i>	4	min 1656, median 2546, max 3374	
<i>Fibroporia radiculosa</i>	1	min 770, median 770, max 770	
<i>Phanerochaete carnosae</i>	10	min 530, median 1421, max 2897	
<i>Postia placenta</i>	5	min 1187, median 1703, max 2944	
<i>Trametes versicolor</i>	29	min 2426, median 3143, max 3512	
<i>Heterobasidion irregulare</i>	5	min 1529, median 1706, max 3103	
<i>Stereum hirsutum</i>	4	min 2108, median 2324, max 3530	
<i>Spizellomyces punctatus</i>	0	-	
<i>Batrachochytrium dendrobatidis</i>	0	-	
<i>Diplodia corticola</i>	0	-	
<i>Neofusicoccum parvum</i>	0	-	
<i>Baudoinia panamericana</i>	0	-	
<i>Cercospora beticola</i>	0	-	
<i>Pseudocercospora fijiensis</i>	8	min 896, median 2708, max 2753	
<i>Sphaerulina musiva</i>	1	min 1589, median 1589, max 1589	
<i>Zymoseptoria tritici</i>	5	902, median 1595, max 1685	
<i>Aureobasidium namibiae</i>	0	-	
<i>Aureobasidium subglaciale</i>	0	-	
<i>Coniosporium apollinis</i>	0	-	
<i>Paraphaeosphaeria sporulosa</i>	0	-	
<i>Parastagonospora nodorum</i>	2	min 1352, median 1352, max 2459	
<i>Leptosphaeria maculans</i>	12	min 755, median 1685, max 2792	
<i>Alternaria alternata</i>	0	-	
<i>Bipolaris maydis</i>	0	-	
<i>Bipolaris oryzae</i>	0	-	
<i>Bipolaris sorokiniana</i>	0	-	
<i>Bipolaris victoriae</i>	0	-	
<i>Bipolaris zeicola</i>	0	-	
<i>Pyrenophora teres</i>	0	-	
<i>Pyrenophora tritici-repentis</i>	0	-	
<i>Setosphaeria turcica</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Verruconis gallopava</i>	0	-	
<i>Cyphellophora europaea</i>	0	-	
<i>Capronia coronata</i>	0	-	
<i>Capronia epimyces</i>	0	-	
<i>Cladophialophora bantiana</i>	0	-	
<i>Cladophialophora carrionii</i>	0	-	
<i>Cladophialophora immunda</i>	0	-	
<i>Cladophialophora psammophila</i>	0	-	
<i>Cladophialophora yegresii</i>	0	-	
<i>Exophiala aquamarina</i>	0	-	
<i>Exophiala dermatitidis</i>	0	-	
<i>Exophiala mesophila</i>	0	-	
<i>Exophiala oligosperma</i>	0	-	
<i>Exophiala spinifera</i>	0	-	
<i>Exophiala xenobiotica</i>	0	-	
<i>Fonsecaea erecta</i>	0	-	
<i>Fonsecaea monophora</i>	0	-	
<i>Fonsecaea multimorphosa</i>	0	-	
<i>Fonsecaea nubica</i>	0	-	
<i>Fonsecaea pedrosoi</i>	0	-	
<i>Phialophora attae</i>	0	-	
<i>Rhinocladiella mackenziei</i>	0	-	
<i>Aspergillus aculeatus</i>	0	-	
<i>Aspergillus bombycis</i>	0	-	
<i>Aspergillus clavatus</i>	0	-	
<i>Aspergillus fischeri</i>	0	-	
<i>Aspergillus flavus</i>	0	-	
<i>Aspergillus fumigatus</i>	0	-	
<i>Aspergillus glaucus</i>	0	-	
<i>Aspergillus nidulans</i>	0	-	
<i>Aspergillus niger</i>	0	-	
<i>Aspergillus nomius</i>	0	-	
<i>Aspergillus oryzae</i>	0	-	
<i>Aspergillus terreus</i>	0	-	
<i>Penicillium zonata</i>	0	-	
<i>Penicillium arizonense</i>	0	-	
<i>Penicillium chrysogenum</i>	0	-	
<i>Penicillium digitatum</i>	0	-	
<i>Penicillium expansum</i>	0	-	
<i>Penicillium marneffeii</i>	0	-	
<i>Rasamsonia emersonii</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Talaromyces atroroseus</i>	1	min 1589, median 1589, max 1589	
<i>Talaromyces stipitatus</i>	7	min 239, median 863, max 1274	
<i>Ajellomyces dermatitidis</i>	25	min 494, median 953, max 1439	
<i>Arthroderma otae</i>	1	min 318, median 318, max 318	
<i>Coccidioides immitis</i>	3	min 944, median 944, max 1433	
<i>Coccidioides posadasii</i>	0	-	
<i>Histoplasma capsulatum</i>	1	min 1442, median 1442, max 1442	
<i>Nannizzia gypsea</i>	0	-	
<i>Paracoccidioides brasiliensis</i>	2	min 662, median 662, max 695	
<i>Paracoccidioides lutzii</i>	0	-	
<i>Trichophyton benhamiae</i>	0	-	
<i>Trichophyton rubrum</i>	0	-	
<i>Trichophyton verrucosum</i>	0	-	
<i>Uncinocarpus reesii</i>	2	min 758, median 758, max 794	
<i>Endocarpon pusillum</i>	7	min 215, median 323, max 953	
<i>Tilletiaria anomala</i>	0	-	
<i>Botryotinia fuckeliana</i>	0	-	
<i>Glarea lozoyensis</i>	0	-	
<i>Marssonina brunnea</i>	0	-	
<i>Phialocephala scopiformis</i>	0	-	
<i>Sclerotinia sclerotiorum</i>	0	-	
<i>Pseudogymnoascus destructans</i>	3	min 1009, median 1494, max 2726	
<i>Pseudogymnoascus verrucosus</i>	0	-	
<i>Malassezia globosa</i>	0	-	
<i>Malassezia pachydermatis</i>	0	-	
<i>Malassezia sympodialis</i>	5	min 347, median 947, max 1133	
<i>Rhodotorula graminis</i>	0	-	
<i>Rhodotorula toruloides</i>	1	min 2537, median 2537, max 2537	
<i>Mixia osmundae</i>	0	-	
<i>Arthrobotrys oligospora</i>	0	-	
<i>Dactylellina haptotyla</i>	1	min 1802, median 1802, max 1802	
<i>Tuber melanosporum</i>	2	min 218, median 218, max 1871	
<i>Pneumocystis carinii</i>	0	-	
<i>Pneumocystis jirovecii</i>	0	-	
<i>Pneumocystis murina</i>	0	-	
<i>Melampsora larici-populina</i>	6	min 1373, median 1475, max 2144	
<i>Puccinia graminis</i>	1	min 752, median 752, max 752	
<i>Candida albicans</i>	8	min 221, median 1097, max 3446	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Candida auris</i>	1	min 2327, median 2327, max 2327	
<i>Candida dubliniensis</i>	35	min 41, median 390, max 4952	
<i>Candida glabrata</i>	0	-	
<i>Candida orthopsilosis</i>	0	-	
<i>Candida tanzawaensis</i>	1	min 1844, median 1844, max 1844	
<i>Candida tenuis</i>	0	-	
<i>Candida tropicalis</i>	0	-	
<i>Lodderomyces elongisporus</i>	0	-	
<i>Ascoidea rubescens</i>	0	-	
<i>Babjeviella inositovora</i>	0	-	
<i>Clavispora lusitaniae</i>	0	-	
<i>Cyberlindnera jadinii</i>	0	-	
<i>Debaryomyces fabryi</i>	0	-	
<i>Debaryomyces hansenii</i>	0	-	
<i>Eremothecium cymbalariae</i>	0	-	
<i>Eremothecium gossypii</i>	0	-	
<i>Eremothecium sinicaudum</i>	0	-	
<i>Hyphopichia burtonii</i>	0	-	
<i>Kazachstania africana</i>	0	-	
<i>Kazachstania naganishii</i>	0	-	
<i>Kluyveromyces lactis</i>	0	-	
<i>Kluyveromyces marxianus</i>	0	-	
<i>Komagataella phaffii</i>	0	-	
<i>Kuraishia capsulata</i>	0	-	
<i>Lachancea lanzarotensis</i>	0	-	
<i>Lachancea thermotolerans</i>	0	-	
<i>Metschnikowia bicuspidata</i>	3	min 158, median 410, max 1358	
<i>Meyerozyma guilliermondii</i>	0	-	
<i>Naumovozya castellii</i>	0	-	
<i>Naumovozya dairenensis</i>	0	-	
<i>Ogataea parapolyomorpha</i>	0	-	
<i>Ogataea polymorpha</i>	0	-	
<i>Saccharomyces cerevisiae</i>	0	-	
<i>Saccharomyces eubayanus</i>	0	-	
<i>Spathaspora passalidarum</i>	0	-	
<i>Sugiyamaella lignohabitans</i>	0	-	
<i>Tetrapisispora blattae</i>	0	-	
<i>Tetrapisispora phaffii</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Torulaspora delbrueckii</i>	0	-	
<i>Vanderwaltozyma polyspora</i>	0	-	
<i>Yarrowia lipolytica</i>	36	min 89, median 926, max 6079	
<i>Zygosaccharomyces rouxii</i>	0	-	
<i>Wickerhamomyces anomalus</i>	4	min 449, median 458, max 2606	
<i>Wickerhamomyces ciferrii</i>	8	min 230, median 1787, max 2927	
<i>Scheffersomyces stipitis</i>	25	min 1679, median 3077, max 3386	
<i>Pichia kudriavzevii</i>	0	-	
<i>Pichia membranifaciens</i>	0	-	
<i>Schizosaccharomyces cryophilus</i>	0	-	
<i>Schizosaccharomyces japonicus</i>	0	-	
<i>Schizosaccharomyces octosporus</i>	0	-	
<i>Schizosaccharomyces pombe</i>	0	-	
<i>Metarhizium acridum</i>	0	-	
<i>Metarhizium brunneum</i>	0	-	
<i>Metarhizium majus</i>	0	-	
<i>Metarhizium robertsii</i>	0	-	
<i>Pochonia chlamydosporia</i>	0	-	
<i>Beauveria bassiana</i>	2	min 404, median 404, max 1391	
<i>Cordyceps militaris</i>	0	-	
<i>Isaria fumosorosea</i>	0	-	
<i>Trichoderma atroviride</i>	0	-	
<i>Trichoderma gamsii</i>	0	-	
<i>Trichoderma reesei</i>	0	-	
<i>Trichoderma virens</i>	0	-	
<i>Fusarium fujikuroi</i>	0	-	
<i>Fusarium graminearum</i>	0	-	
<i>Fusarium oxysporum</i>	4	min 1260, median 1343, max 1523	
<i>Fusarium pseudograminearum</i>	0	-	
<i>Fusarium verticillioides</i>	1	min 1292, median 1292, max 1292	
<i>Nectria haematococca</i>	0	-	
<i>Purpureocillium lilacinum</i>	0	-	
<i>Colletotrichum fioriniae</i>	0	-	
<i>Colletotrichum gloeosporioides</i>	1	min 1235, median 1235, max 1235	
<i>Colletotrichum graminicola</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Colletotrichum higginsianum</i>	3	min 913, median 1328, max 2177	
<i>Colletotrichum orchidophilum</i>	1	min 2174, median 2174, max 2174	
<i>Verticillium alfalfae</i>	0	-	
<i>Verticillium dahliae</i>	0	-	
<i>Magnaporthe oryzae</i>	0	-	
<i>Gaeumannomyces tritici</i>	0	-	
<i>Scedosporium apiospermum</i>	0	-	
<i>Grosmannia clavigera</i>	0	-	
<i>Sporothrix schenckii</i>	0	-	
<i>Chaetomium globosum</i>	0	-	
<i>Chaetomium thermophilum</i>	0	-	
<i>Neurospora crassa</i>	0	-	
<i>Neurospora tetrasperma</i>	0	-	
<i>Podospora anserina</i>	0	-	
<i>Sordaria macrospora</i>	1	min 1025, median 1025, max 1025	
<i>Thermothelomyces thermophila</i>	2	min 359, median 359, max 722	
<i>Thielavia terrestris</i>	6	min 530, median 554, max 848	
<i>Phaeoacremonium minimum</i>	0	-	
<i>Eutypa lata</i>	0	-	
<i>Pestalotiopsis fici</i>	0	-	
<i>Cryptococcus amyloletus</i>	0	-	
<i>Cryptococcus gattii</i>	0	-	
<i>Cryptococcus neoformans</i> var. <i>grubii</i>	0	-	
<i>Cryptococcus neoformans</i> var. <i>neoformans</i> JEC21	0	-	
<i>Cryptococcus neoformans</i> var. <i>neoformans</i> B-3501A	0	-	
<i>Kockovaella imperatae</i>	0	-	
<i>Kwoniella bestiolae</i>	0	-	
<i>Kwoniella dejecticola</i>	0	-	
<i>Kwoniella mangroviensis</i>	0	-	
<i>Kwoniella pini</i>	0	-	
<i>Tremella mesenterica</i>	0	-	
<i>Tsuchiyaea wingfieldii</i>	0	-	
<i>Cutaneotrichosporon oleaginosus</i>	0	-	
<i>Trichosporon asahii</i>	0	-	
<i>Anthracoystis flocculosa</i>	0	-	
<i>Kalmanozyma brasiliensis</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Moesziomyces antarcticus</i>	0	-	
<i>Pseudozyma hubeiensis</i>	0	-	
<i>Ustilago maydis</i>	1	min 2996, median 2996, max 2996	
<i>Wallemia ichthyophaga</i>	0	-	
<i>Wallemia mellicola</i>	0	-	
<i>Xylona heveae</i>	0	-	
<i>Saitoella complicata</i>	2	min 912, median 912, max 1379	
<i>Lobosporangium transversale</i>	17	min 485, median 2977, max 3134	
<i>Phycomyces blakesleeianus</i>	146	min 182, median 2471, max 3203	
<i>Rhizopus microsporus</i>	35	min 317, median 1229, max 2936	
<i>Encephalitozoon cuniculi</i>	0	-	
<i>Encephalitozoon hellem</i>	0	-	
<i>Encephalitozoon intestinalis</i>	0	-	
<i>Encephalitozoon romaleae</i>	0	-	
<i>Enterocytozoon bieneusi</i>	0	-	
<i>Mitosporidium daphniae</i>	0	-	
<i>Nematocida parisii</i>	0	-	
<i>Nosema ceranae</i>	2	min 218, median 218, max 694	
<i>Ordospora colligata</i>	0	-	
<i>Vavraia culicis</i>	0	-	
<i>Vittaforma corneae</i>	0	-	
VIRIDIPLANTAE			
<i>Micromonas pusilla</i> <i>CCMP1545</i>	0	-	
<i>Micromonas</i> sp. <i>RCC299</i>	0	-	
<i>Ostreococcus lucimarinus</i> <i>CCE9901</i>	0	-	
<i>Ostreococcus tauri</i>	0	-	
<i>Chlamydomonas reinhardtii</i>	675	min 56, median 719, max 6259	
<i>Volvox carteri</i> f. <i>nagariensis</i>	297	min 56, median 1013, max 8376	
<i>Chlorella variabilis</i>	14	min 72, median 788, max 2753	
<i>Auxenochlorella protothecoides</i>	0	-	
<i>Helicosporidium</i> sp. <i>ATCC 50920</i>	0	-	
<i>Coccomyxa subellipsoidea</i> <i>C-169</i>	298	min 44, median 286, max 8994	
<i>Klebsormidium flaccidum</i>	8	min 521, median 1571, max 3187	
<i>Physcomitrella patens</i>	275	min 82, median 707, max 3257	
<i>Selaginella moellendorffii</i>	221	min 82, median 1180, max 17033	
<i>Pinus taeda</i>	1744	min 44, median 1130, max 5806	
<i>Amborella trichopoda</i>	8912	min 32, median 701, max 7437	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Spirodela polyrhiza</i>	135	min 53, median 1130, max 4144	
<i>Phoenix dactylifera</i>	3589	min 35, median 916, max 6802	
<i>Elaeis oleifera</i>	4151	min 35, median 772, max 4405	
<i>Ensete ventricosum</i>	55	min 50, median 716, max 2405	
<i>Musa acuminata subsp. malaccensis</i>	724	min 68, median 964, max 3524	
<i>Sorghum bicolor</i>	4272	min 35, median 801, max 8289	
<i>Zea mays</i>	6618	min 32, median 870, max 7283	
<i>Setaria italica</i>	2918	min 41, median 953, max 7323	
<i>Brachypodium distachyon</i>	3074	min 35, median 893, max 7282	
<i>Leersia perrieri</i>	1954	min 50, median 762, max 6583	
<i>Oryza barthii</i>	1610	min 32, median 800, max 7342	
<i>Oryza brachyantha</i>	485	min 47, median 698, max 5902	
<i>Oryza glumipatula</i>	1552	min 38, median 807, max 7736	
<i>Oryza longistaminata</i>	1301	min 38, median 806, max 7116	
<i>Oryza meridionalis</i>	1448	min 47, median 758, max 7197	
<i>Oryza nivara</i>	1617	min 38, median 830, max 7342	
<i>Oryza punctata</i>	1504	min 38, median 812, max 7473	
<i>Oryza sativa Japonica Group</i>	1700	min 38, median 925, max 7409	
<i>Zizania latifolia</i>	1564	min 53, median 1016, max 5345	
<i>Aegilops tauschii</i>	11027	min 35, median 1767, max 7683	
<i>Triticum urartu</i>	10977	min 44, median 1778, max 8407	
<i>Nelumbo nucifera</i>	19318	min 29, median 614, max 7648	
<i>Lupinus angustifolius</i>	2027	min 41, median 1151, max 5768	
<i>Phaseolus vulgaris</i>	4448	min 35, median 881, max 5861	
<i>Cajanus cajan</i>	1228	min 50, median 1048, max 5476	
<i>Vigna angularis var. angularis</i>	144	min 89, median 349, max 2875	
<i>Vigna radiata var. radiata</i>	223	min 47, median 330, max 3013	
<i>Glycine max</i>	5640	min 41, median 758, max 7151	
<i>Glycine soja</i>	3923	min 41, median 827, max 11768	
<i>Cicer arietinum</i>	1325	min 41, median 419, max 5029	
<i>Medicago truncatula</i>	2829	min 41, median 617, max 7369	
<i>Trifolium pratense</i>	1968	min 65, median 511, max 5762	
<i>Lotus japonicus</i>	2	min 50, median 1071, max 4150	
<i>Malus x domestica</i>	1729	min 56, median 779, max 6604	
<i>Pyrus x bretschneideri</i>	1729	min 41, median 784, max 6922	
<i>Prunus mume</i>	912	min 50, median 704, max 5952	
<i>Prunus persica</i>	797	min 53, median 710, max 5889	
<i>Fragaria iinumae</i>	1019	min 41, median 589, max 6012	
<i>Fragaria nubicola</i>	1168	min 68, median 528, max 4773	
<i>Fragaria orientalis</i>	1446	min 72, median 470, max 5421	
<i>Fragaria vesca subsp. vesca</i>	1241	min 44, median 663, max 6199	
<i>Fragaria x ananassa</i>	929	min 41, median 380, max 6013	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Morus notabilis</i>	980	min 41, median 295, max 5400	
<i>Cannabis sativa</i>	4612	min 38, median 1254, max 5289	
<i>Castanea mollissima</i>	4957	min 35, median 1287, max 4424	
<i>Betula nana</i>	3589	min 50, median 710, max 5054	
<i>Cucumis melo</i>	1118	min 32, median 777, max 3963	
<i>Cucumis sativus</i>	880	min 50, median 708, max 3316	
<i>Citrullus lanatus</i>	1116	min 47, median 785, max 5049	
<i>Lagenaria siceraria</i>	1019	min 59, median 383, max 2613	
<i>Populus euphratica</i>	1127	min 56, median 923, max 6319	
<i>Populus trichocarpa</i>	1547	min 41, median 754, max 6523	
<i>Jatropha curcas</i>	1905	min 32, median 661, max 5478	
<i>Manihot esculenta</i> subsp. <i>flabellifolia</i>	1690	min 44, median 755, max 5606	
<i>Ricinus communis</i>	843	min 62, median 591, max 3924	
<i>Linum usitatissimum</i>	2158	min 44, median 759, max 5346	
<i>Eucalyptus camaldulensis</i>	4127	min 65, median 976, max 6573	
<i>Eucalyptus grandis</i>	5885	min 35, median 1058, max 7266	
<i>Carica papaya</i>	2451	min 47, median 667, max 6410	
<i>Arabidopsis halleri</i> subsp. <i>gemmifera</i>	3059	min 68, median 157, max 7434	
<i>Arabidopsis lyrata</i> subsp. <i>lyrata</i>	1740	min 65, median 1274, max 6932	
<i>Arabidopsis thaliana</i>	542	min 35, median 926, max 6834	
<i>Camelina sativa</i>	8025	min 47, median 1175, max 7902	
<i>Capsella rubella</i>	654	min 41, median 1131, max 6249	
<i>Brassica napus</i>	9753	min 44, median 1580, max 8479	
<i>Brassica oleracea</i> var. <i>oleracea</i>	6991	min 41, median 1040, max 6121	
<i>Brassica rapa</i>	3425	min 44, median 848, max 6125	
<i>Raphanus raphanistrum</i> subsp. <i>raphanistrum</i>	1728	min 76, median 2107, max 5996	
<i>Raphanus sativus</i>	3064	min 53, median 1787, max 6103	
<i>Aethionema arabicum</i>	1308	min 70, median 1628, max 5667	
<i>Arabis alpina</i>	3703	min 44, median 1184, max 6298	
<i>Eutrema parvulum</i>	787	min 47, median 952, max 6073	
<i>Eutrema salsugineum</i>	1892	min 41, median 1502, max 6363	
<i>Sisymbrium irio</i>	1961	min 59, median 1081, max 6116	
<i>Leavenworthia alabamica</i>	739	min 56, median 1139, max 5965	
<i>Tarenaya hassleriana</i>	620	min 62, median 1094, max 4380	
<i>Gossypium arboreum</i>	3758	min 44, median 1038, max 5838	
<i>Gossypium raimondii</i>	5445	min 35, median 730, max 5724	
<i>Theobroma cacao</i>	2190	min 35, median 700, max 6934	
<i>Aquilaria agallochum</i>	2814	min 44, median 725, max 4272	
<i>Azadirachta indica</i>	489	min 47, median 561, max 5194	
<i>Citrus clementine</i>	1771	min 41, median 899, max 5669	
<i>Citrus sinensis</i>	2011	min 44, median 887, max 5712	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Vitis vinifera</i>	6108	min 29, median 1028, max 6808	
<i>Amaranthus hypochondriacus</i>	2669	min 74, median 525, max 4869	
<i>Amaranthus tuberculatus</i>	184	min 62, median 231, max 1352	
<i>Beta vulgaris</i> subsp. <i>vulgaris</i>	9915	min 41, median 989, max 6948	
<i>Spinacia oleracea</i>	2817	min 50, median 1365, max 6337	
<i>Dianthus caryophyllus</i>	2072	min 68, median 1925, max 4459	
<i>Actinidia chinensis</i>	1052	min 47, median 913, max 5954	
<i>Vaccinium macrocarpon</i>	1861	min 47, median 812, max 4536	
<i>Diospyros lotus</i>	2	min 1382, median 1382, max 1950	
<i>Primula veris</i>	978	min 47, median 857, max 4168	
<i>Solanum arcanum</i>	2517	min 62, median 1360, max 16602	
<i>Solanum habrochaites</i>	2891	min 59, median 1273, max 14525	
<i>Solanum lycopersicum</i>	3046	min 41, median 1014, max 28999	
<i>Solanum melongena</i>	3223	min 50, median 1173, max 10878	
<i>Solanum pennellii</i>	2648	min 38, median 1241, max 16789	
<i>Solanum pimpinellifolium</i>	4046	min 43, median 785, max 16052	
<i>Solanum tuberosum</i>	4713	min 44, median 878, max 16344	
<i>Capsicum annuum</i>	10918	min 35, median 1305, max 6394	
<i>Nicotiana glauca</i>	6487	min 53, median 1724, max 6385	
<i>Nicotiana tomentosiformis</i>	4987	min 41, median 1597, max 7374	
<i>Fraxinus excelsior</i>	1798	min 41, median 1215, max 4845	
<i>Penstemon centranthifolius</i>	38	min 50, median 516, max 2734	
<i>Penstemon grinnellii</i>	23	min 203, median 596, max 1456	
<i>Sesamum indicum</i>	3571	min 35, median 902, max 4635	
<i>Genlisea aurea</i>	86	min 121, median 1097, max 4055	
<i>Mimulus guttatus</i>	1304	min 65, median 1112, max 5583	
<i>Conyza canadensis</i>	952	min 62, median 1526, max 4530	

Table S3: BovBs in genomic data

Table S3: Shows which genomes contain BovBs (72/759) and the number of hits and length distributions. As before, BovB elements were detected with protein based searches using TBLASTN and nucleotide similarity searches using LASTZ. All hits had to satisfy a ‘reciprocal best hit’ check to check they were really BovBs (and not other repeats). Overlapping hits were merged to produce a non-redundant set of BovBs for each genome.

Species	# L1 hits	Length distribution (bp)	Notes
METAZOA			
MAMMALIA			
<i>Tachyglossus aculeatus</i>	3196	min 29, median 371, max 3794	
<i>Ornithorhynchus anatinus</i>	3720	min 26, median 393, max 3849	
<i>Monodelphis domestica</i>	6340	min 29, median 353, max 3511	
<i>Macropus eugenii</i>	2302	min 32, median 503, max 3497	
<i>Sarcophilus harrisii</i>	4948	min 29, median 410, max 3788	
<i>Dasypus novemcinctus</i>	0	-	
<i>Choloepus hoffmanni</i>	0	-	
<i>Chrysochloris asiatica</i>	240967	min 29, median 296, max 6242	
<i>Echinops telfairi</i>	54734	min 29, median 275, max 3603	
<i>Orycteropus afer afer</i>	155026	min 26, median 362, max 8015	
<i>Elephantulus edwardii</i>	392850	min 26, median 329, max 5564	
<i>Trichechus manatus latirostris</i>	47995	min 29, median 326, max 6541	
<i>Procavia capensis</i>	16229	min 41, median 1049, max 5482	
<i>Loxodonta africana</i>	65259	min 26, median 289, max 6341	
<i>Erinaceus europaeus</i>	0	-	
<i>Sorex araneus</i>	0	-	
<i>Condylura cristata</i>	0	-	
<i>Pteropus alecto</i>	112	min 50, median 293, max 3182	
<i>Pteropus vampyrus</i>	83	min 38, median 279, max 3200	
<i>Eidolon helvum</i>	93	min 38, median 338, max 3195	
<i>Megaderma lyra</i>	79	min 41, median 272, max 3092	
<i>Rhinolophus ferrumequinum</i>	101	min 53, median 314, max 3469	
<i>Pteronotus parnellii</i>	75	min 74, median 278, max 3363	
<i>Eptesicus fuscus</i>	88	min 35, median 287, max 3554	
<i>Myotis brandtii</i>	116	min 47, median 268, max 3373	
<i>Myotis davidii</i>	90	min 41, median 320, max 3615	
<i>Myotis lucifugus</i>	100	min 53, median 345, max 3917	
<i>Ceratotherium simum simum</i>	389	min 38, median 547, max 3668	
<i>Equus przewalskii</i>	283	min 46, median 649, max 3737	
<i>Equus caballus</i> (Thoroughbred)	343	min 44, median 359, max 3751	
<i>Equus caballus</i> (Mongolian)	302	min 56, median 655, max 3750	
<i>Manis pentadactyla</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Felis catus</i>	0	-	
<i>Panthera tigris altaica</i>	0	-	
<i>Canis lupus familiaris</i>	0	-	
<i>Ursus maritimus</i>	0	-	
<i>Ailuropoda melanoleuca</i>	0	-	
<i>Leptonychotes weddellii</i>	0	-	
<i>Odobenus rosmarus divergens</i>	0	-	
<i>Mustela putorius furo</i>	0	-	
<i>Camelus dromedarius</i>	0	-	
<i>Camelus ferus</i>	0	-	
<i>Vicugna pacos</i>	0	-	
<i>Sus scrofa</i> (Duroc)	0	-	
<i>Sus scrofa</i> (Tibetan)	0	-	
<i>Sus scrofa</i> (Ellegaard Gottingen minipig)	0	-	
<i>Balaenoptera acutorostrata scammoni</i>	0	-	
<i>Physeter catodon</i>	0	-	
<i>Lipotes vexillifer</i>	0	-	
<i>Tursiops truncatus</i>	0	-	
<i>Orcinus orca</i>	0	-	
<i>Pantholops hodgsonii</i>	335036	min 26, median 437, max 6825	
<i>Capra hircus</i>	367621	min 26, median 405, max 7217	
<i>Ovis aries</i> (Texel)	360487	min 26, median 486, max 7170	
<i>Ovis aries musimon</i>	266125	min 26, median 518, max 7181	
<i>Bubalus bubalis</i>	360889	min 26, median 516, max 7930	
<i>Bison bison bison</i>	393414	min 26, median 498, max 8305	
<i>Bos mutus</i>	304207	min 26, median 500, max 8654	
<i>Bos indicus</i>	310238	min 26, median 609, max 8107	
<i>Bos taurus</i>	334418	min 26, median 608, max 8639	
<i>Ochotona princeps</i>	0	-	
<i>Oryctolagus cuniculus</i>	0	-	
<i>Ictidomys tridecemlineatus</i>	0	-	
<i>Heterocephalus glaber</i>	0	-	
<i>Fukomys damarensis</i>	0	-	
<i>Cavia aperea</i>	0	-	
<i>Cavia porcellus</i>	0	-	
<i>Chinchilla lanigera</i>	0	-	
<i>Octodon degus</i>	0	-	
<i>Dipodomys ordii</i>	0	-	
<i>Jaculus jaculus</i>	0	-	
<i>Nannospalax galili</i>	0	-	
<i>Mesocricetus auratus</i>	0	-	
<i>Cricetulus griseus</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Microtus ochrogaster</i>	0	-	
<i>Peromyscus maniculatus bairdii</i>	0	-	
<i>Rattus norvegicus</i>	0	-	
<i>Mus musculus</i>	0	-	
<i>Tupaia belangeri</i>	0	-	
<i>Tupaia chinensis</i>	0	-	
<i>Galeopterus variegatus</i>	0	-	
<i>Otolemur garnettii</i>	0	-	
<i>Microcebus murinus</i>	0	-	
<i>Tarsius syrichta</i>	0	-	
<i>Callithrix jacchus</i>	0	-	
<i>Saimiri boliviensis boliviensis</i>	0	-	
<i>Rhinopithecus roxellana</i>	0	-	
<i>Nasalis larvatus</i>	0	-	
<i>Chlorocebus sabaeus</i>	0	-	
<i>Macaca fascicularis</i>	0	-	
<i>Macaca mulatta</i>	0	-	
<i>Papio anubis</i>	0	-	
<i>Nomascus leucogenys</i>	0	-	
<i>Pongo abelii</i>	0	-	
<i>Gorilla gorilla gorilla</i>	0	-	
<i>Pan paniscus</i>	0	-	
<i>Pan troglodytes</i>	0	-	
<i>Homo sapiens</i>	0	-	
SAUROPSIDA			
<i>Apalone spinifera</i>	0	-	Contains RTEs
<i>Pelodiscus sinensis</i>	0	-	Contains RTEs
<i>Chelonia mydas</i>	0	-	Contains RTEs
<i>Chrysemys picta bellii</i>	0	-	Contains RTEs
<i>Struthio camelus australis</i>	0	-	
<i>Tinamus guttatus</i>	0	-	
<i>Anas platyrhynchos</i>	0	-	
<i>Lyrurus tetrix tetrix</i>	0	-	
<i>Gallus gallus</i>	0	-	
<i>Coturnix japonica</i>	0	-	
<i>Meleagris gallopavo</i>	0	-	
<i>Colinus virginianus</i>	0	-	
<i>Acanthisitta chloris</i>	0	-	
<i>Manacus vitellinus</i>	0	-	
<i>Zonotrichia albicollis</i>	0	-	
<i>Geospiza fortis</i>	0	-	
<i>Serinus canaria</i>	0	-	
<i>Taeniopygia guttata</i>	0	-	
<i>Ficedula albicollis</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Pseudopodoces humilis</i>	0	-	
<i>Corvus brachyrhynchos</i>	0	-	
<i>Corvus cornix cornix</i>	0	-	
<i>Ara macao</i>	0	-	
<i>Amazona vittata</i>	0	-	
<i>Melopsittacus undulatus</i>	0	-	
<i>Nestor notabilis</i>	0	-	
<i>Falco cherrug</i>	0	-	
<i>Falco peregrinus</i>	0	-	
<i>Cariama cristata</i>	0	-	
<i>Merops nubicus</i>	0	-	
<i>Picoides pubescens</i>	0	-	
<i>Buceros rhinoceros silvestris</i>	0	-	
<i>Apaloderma vittatum</i>	0	-	
<i>Leptosomus discolor</i>	0	-	
<i>Haliaeetus albicilla</i>	0	-	
<i>Haliaeetus leucocephalus</i>	0	-	
<i>Aquila chrysaetos canadensis</i>	0	-	
<i>Cathartes aura</i>	0	-	
<i>Tyto alba</i>	0	-	
<i>Colius striatus</i>	0	-	
<i>Charadrius vociferus</i>	0	-	
<i>Balearica regulorum gibbericeps</i>	0	-	
<i>Chlamydotis macqueenii</i>	0	-	
<i>Cuculus canorus</i>	0	-	
<i>Fulmarus glacialis</i>	0	-	
<i>Aptenodytes forsteri</i>	0	-	
<i>Pygoscelis adeliae</i>	0	-	
<i>Phalacrocorax carbo</i>	0	-	
<i>Pelecanus crispus</i>	0	-	
<i>Nipponia nippon</i>	0	-	
<i>Egretta garzetta</i>	0	-	
<i>Phaethon lepturus</i>	0	-	
<i>Gavia stellata</i>	0	-	
<i>Tauraco erythrolophus</i>	0	-	
<i>Opisthocomus hoazin</i>	0	-	
<i>Columba livia</i>	0	-	
<i>Pterocles gutturalis</i>	0	-	
<i>Calypte anna</i>	0	-	
<i>Chaetura pelagica</i>	0	-	
<i>Caprimulgus carolinensis</i>	0	-	
<i>Eurypyga helias</i>	0	-	
<i>Mesitornis unicolor</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Podiceps cristatus</i>	0	-	
<i>Phoenicopterus ruber ruber</i>	0	-	
<i>Alligator mississippiensis</i>	0	-	Contains RTEs
<i>Alligator sinensis</i>	0	-	Contains RTEs
<i>Crocodylus porosus</i>	0	-	Contains RTEs
<i>Gavialis gangeticus</i>	0	-	Contains RTEs
<i>Pogona vitticeps</i>	63989	min 26, median 399, max 3821	
<i>Anolis carolinensis</i>	20144	min 29, median 386, max 3562	
<i>Vipera berus berus</i>	8885	min 32, median 394, max 3490	
<i>Crotalus mitchellii pyrrhus</i>	1540	min 35, median 371, max 3360	
<i>Ophiophagus hannah</i>	2858	min 29, median 344, max 3667	
<i>Python bivittatus</i>	6503	min 26, median 384, max 3793	
AMPHIBIA			
<i>Nanorana parkeri</i>	99	min 47, median 322, max 1766	
<i>Xenopus laevis</i>	81	min 71, median 278, max 2303	
<i>Xenopus tropicalis</i>	69	min 74, median 281, max 2623	
NEOPTERYGII			
<i>Lepisosteus oculatus</i>	102	min 47, median 525, max 3079	
<i>Anguilla anguilla</i>	0	-	
<i>Anguilla japonica</i>	0	-	
<i>Danio rerio</i>	30	min 164, median 608, max 3079	
<i>Astyanax mexicanus</i>	0	-	
<i>Oryzias latipes</i>	0	-	
<i>Poecilia formosa</i>	0	-	
<i>Xiphophorus maculatus</i>	0	-	
<i>Fundulus heteroclitus</i>	0	-	
<i>Takifugu flavidus</i>	0	-	
<i>Takifugu rubripes</i>	0	-	
<i>Tetraodon nigroviridis</i>	0	-	
<i>Cynoglossus semilaevis</i>	6	min 292, median 476, max 2463	
<i>Haplochromis burtoni</i>	0	-	
<i>Pundamilia nyererei</i>	0	-	
<i>Maylandia zebra</i>	0	-	
<i>Neolamprologus brichardi</i>	0	-	
<i>Oreochromis niloticus</i>	11	min 185, median 1066, max 2829	
<i>Sebastes nigrocinctus</i>	0	-	
<i>Sebastes rubrivinctus</i>	0	-	
<i>Gasterosteus aculeatus</i>	0	-	
<i>Gadus morhua</i>	0	-	
CHONDRICHTHYES			
<i>Callorhynchus milii</i>	0	-	
<i>Carcharhinus brachyurus</i>	0	-	
ECDYSOZOA			
<i>Ephemera danica</i>	4	min 905, median 1259, max 2744	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Ladona fulva</i>	0	-	
<i>Pediculus humanus corporis</i>	0	-	
<i>Frankliniella occidentalis</i>	0	-	
<i>Diaphorina citri</i>	38	min 131, median 623, max 3089	
<i>Pachypsylla venusta</i>	0	-	
<i>Acyrtosiphon pisum</i>	0	-	
<i>Nilaparvata lugens</i>	93	min 182, median 1427, max 2906	
<i>Oncopeltus fasciatus</i>	0	-	
<i>Rhodnius prolixus</i>	0	-	
<i>Cimex lectularius</i>	176	min 38, median 400, max 2625	
<i>Onthophagus taurus</i>	0	-	
<i>Agrilus planipennis</i>	0	-	
<i>Tribolium castaneum</i>	0	-	
<i>Anoplophora glabripennis</i>	0	-	
<i>Leptinotarsa decemlineata</i>	0	-	
<i>Dendroctonus ponderosae</i>	0	-	
<i>Mengenilla moldrzyki</i>	0	-	
<i>Aedes aegypti</i>	0	-	
<i>Culex quinquefasciatus</i>	0	-	
<i>Anopheles albimanus</i>	0	-	
<i>Anopheles arabiensis</i>	0	-	
<i>Anopheles atroparvus</i>	0	-	
<i>Anopheles christyi</i>	0	-	
<i>Anopheles culicifacies</i>	0	-	
<i>Anopheles darlingi</i>	0	-	
<i>Anopheles dirus</i>	0	-	
<i>Anopheles epiroticus</i>	0	-	
<i>Anopheles farauti</i>	0	-	
<i>Anopheles funestus</i>	0	-	
<i>Anopheles gambiae</i>	0	-	
<i>Anopheles maculatus</i>	0	-	
<i>Anopheles melas</i>	0	-	
<i>Anopheles merus</i>	0	-	
<i>Anopheles minimus</i>	0	-	
<i>Anopheles quadriannulatus</i>	0	-	
<i>Anopheles sinensis</i>	0	-	
<i>Anopheles stephensi</i>	0	-	
<i>Mayetiola destructor</i>	0	-	
<i>Lutzomyia longipalpis</i>	0	-	
<i>Phlebotomus papatasi</i>	0	-	
<i>Ceratitis capitata</i>	0	-	
<i>Drosophila albomicans</i>	0	-	
<i>Drosophila ananassae</i>	0	-	
<i>Drosophila biarmipes</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Drosophila bipectinata</i>	0	-	
<i>Drosophila elegans</i>	0	-	
<i>Drosophila erecta</i>	0	-	
<i>Drosophila eugracilis</i>	0	-	
<i>Drosophila ficusphila</i>	0	-	
<i>Drosophila grimshawi</i>	0	-	
<i>Drosophila kikkawai</i>	0	-	
<i>Drosophila melanogaster</i>	0	-	
<i>Drosophila miranda</i>	0	-	
<i>Drosophila mojavensis</i>	0	-	
<i>Drosophila persimilis</i>	0	-	
<i>Drosophila pseudoobscura</i> <i>pseudoobscura</i>	0	-	
<i>Drosophila rhopaloa</i>	0	-	
<i>Drosophila sechellia</i>	0	-	
<i>Drosophila simulans</i>	0	-	
<i>Drosophila suzukii</i>	0	-	
<i>Drosophila takahashii</i>	0	-	
<i>Drosophila virilis</i>	0	-	
<i>Drosophila willistoni</i>	0	-	
<i>Drosophila yakuba</i>	0	-	
<i>Musca domestica</i>	0	-	
<i>Glossina austeni</i>	0	-	
<i>Glossina brevipalpis</i>	0	-	
<i>Glossina fuscipes fuscipes</i>	0	-	
<i>Glossina morsitans</i> <i>morsitans</i>	0	-	
<i>Glossina pallidipes</i>	0	-	
<i>Limnephilus lunatus</i>	0	-	
<i>Papilio glaucus</i>	320	min 77, median 479, max 2981	
<i>Papilio polytes</i>	0	-	Contains RTEs
<i>Papilio xuthus</i>	0	-	Contains RTEs
<i>Heliconius melpomene</i> <i>melpomene</i>	4	min 2124, median 2775, max 2872	
<i>Melitaea cinxia</i>	0	-	
<i>Danaus plexippus</i>	33	min 62, median 470, max 2705	
<i>Bombyx mori</i>	883	min 44, median 455, max 2995	
<i>Manduca sexta</i>	42	min 143, median 553, max 3042	
<i>Plutella xylostella</i>	19	min 368, median 902, max 3194	
<i>Athalia rosae</i>	0	-	
<i>Cephus cinctus</i>	0	-	
<i>Orussus abietinus</i>	0	-	
<i>Ceratosolen solmsi</i> <i>marchali</i>	0	-	
<i>Nasonia giraulti</i>	0	-	
<i>Nasonia longicornis</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Nasonia vitripennis</i>	0	-	
<i>Copidosoma floridanum</i>	0	-	
<i>Trichogramma pretiosum</i>	0	-	
<i>Microplitis demolitor</i>	0	-	
<i>Megachile rotundata</i>	0	-	
<i>Apis dorsata</i>	0	-	
<i>Apis florea</i>	0	-	
<i>Apis mellifera</i>	0	-	
<i>Bombus impatiens</i>	0	-	
<i>Bombus terrestris</i>	0	-	
<i>Linepithema humile</i>	6	min 92, median 320, max 2960	
<i>Camponotus floridanus</i>	0	-	
<i>Acromyrmex echinator</i>	0	-	
<i>Atta cephalotes</i>	0	-	
<i>Solenopsis invicta</i>	30	min 209, median 549, max 3090	
<i>Pogonomyrmex barbatus</i>	5	min 59, median 422, max 2948	
<i>Harpegnathos saltator</i>	0	-	
<i>Cerapachys biroi</i>	0	-	
<i>Blattella germanica</i>	0	-	
<i>Zootermopsis nevadensis</i>	0	-	
<i>Locusta migratoria</i>	2724	min 26, median 659, max 3258	
<i>Daphnia pulex</i>	0	-	
<i>Eurytemora affinis</i>	0	-	
<i>Lepeophtheirus salmonis</i>	0	-	
<i>Hyalomma azteca</i>	0	-	
<i>Strigamia maritima</i>	0	-	
<i>Stegodyphus mimosarum</i>	0	-	
<i>Latrodectus hesperus</i>	0	-	
<i>Parasteatoda tepidariorum</i>	0	-	
<i>Tetranychus urticae</i>	0	-	
<i>Dermatophagoides farinae</i>	0	-	
<i>Sarcoptes scabiei type canis</i>	0	-	
<i>Achipteria coleoptrata</i>	0	-	
<i>Hypochthonius rufulus</i>	0	-	
<i>Platynothrus peltifer</i>	0	-	
<i>Steganacarus magnus</i>	0	-	
<i>Ixodes ricinus</i>	0	-	
<i>Ixodes scapularis</i>	0	-	
<i>Rhipicephalus microplus</i>	0	-	
<i>Metaseiulus occidentalis</i>	0	-	
<i>Varroa destructor</i>	0	-	
<i>Centruroides exilicauda</i>	213	min 59, median 642, max 3251	
<i>Mesobuthus martensii</i>	443	min 59, median 874, max 3737	
<i>Limulus polyphemus</i>	0	-	
<i>Trichinella spiralis</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Ascaris suum</i>	0	-	
<i>Elaeophora elaphi</i>	0	-	
<i>Onchocerca volvulus</i>	0	-	
<i>Steinernema monticolum</i>	0	-	
<i>Panagrellus redivivus</i>	0	-	
<i>Haemonchus contortus</i>	0	-	
<i>Necator americanus</i>	0	-	
<i>Heterorhabditis bacteriophora</i>	0	-	
<i>Caenorhabditis angaria</i>	0	-	
<i>Caenorhabditis brenneri</i>	0	-	
<i>Caenorhabditis briggsae</i>	0	-	
<i>Caenorhabditis elegans</i>	0	-	
<i>Caenorhabditis japonica</i>	0	-	
<i>Caenorhabditis</i> sp. 11 MAF-2010	0	-	
<i>Priapulus caudatus</i>	0	-	
ROTIFERA			
<i>Adineta vaga</i>	26	min 110, median 1160, max 3077	
PLATYHELMINTHES			
<i>Schistosoma curassoni</i>	0	-	
<i>Schistosoma haematobium</i>	0	-	
<i>Schistosoma japonicum</i>	0	-	
<i>Schistosoma mansoni</i>	0	-	
<i>Schistosoma margrebowiei</i>	0	-	
<i>Schistosoma mattheei</i>	0	-	
<i>Schistosoma rodhaini</i>	0	-	
<i>Clonorchis sinensis</i>	0	-	
<i>Echinococcus granulosus</i>	0	-	
<i>Echinococcus multilocularis</i>	0	-	
<i>Hymenolepis microstoma</i>	0	-	
<i>Protopolystoma xenopodis</i>	0	-	
ANNELIDA			
<i>Capitella teleta</i>	19	min 134, median 329, max 1317	
<i>Helobdella robusta</i>	136	min 59, median 541, max 3005	
MOLLUSCA			
<i>Crassostrea gigas</i>	0	-	
<i>Lottia gigantea</i>	0	-	
<i>Aplysia californica</i>	0	-	
<i>Biomphalaria glabrata</i>	0	-	
CNIDARIA			
<i>Nematostella vectensis</i>	0	-	
<i>Hydra vulgaris</i>	0	-	
TENTACULATA			
<i>Mnemiopsis leidyi</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
PLACOZOA			
<i>Trichoplax adhaerens</i>	0	-	
ECHINOIDEA			
<i>Amphimedon queenslandica</i>	0	-	
<i>Lytechinus variegatus</i>	8	min 95, median 474, max 970	
<i>Strongylocentrotus purpuratus</i>	70	min 38, median 470, max 3112	
ASTEROIDEA			
<i>Patiria miniata</i>	0	-	
ENTEROPNEUSTA			
<i>Saccoglossus kowalevskii</i>	0	-	
TUNICATA			
<i>Ciona intestinalis</i>	0	-	
<i>Ciona savignyi</i>	19	min 155, median 799, max 2852	RTE-like BovBs
<i>Botryllus schlosseri</i>	0	-	
<i>Oikopleura dioica</i>	0	-	
LEPTOCARDII			
<i>Branchiostoma floridae</i>	0	-	
CEPHALASPIDOMORPHI			
<i>Lethenteron camtschaticum</i>	31	min 200, median 731, max 2279	
<i>Petromyzon marinus</i>	0	-	Contains RTEs
SARCOPTERYGII			
<i>Latimeria chalumnae</i>	166	min 41, median 511, max 2919	
FUNGI			
<i>Agaricus bisporus</i> var. <i>bisporus</i>	0	-	
<i>Agaricus bisporus</i> var. <i>burnettii</i>	0	-	
<i>Schizophyllum commune</i>	0	-	
<i>Coprinopsis cinerea</i>	0	-	
<i>Moniliophthora roreri</i>	0	-	
<i>Laccaria bicolor</i>	0	-	
<i>Auricularia subglabra</i>	0	-	
<i>Coniophora puteana</i>	0	-	
<i>Serpula lacrymans</i>	0	-	
<i>Punctularia strigosozonata</i>	0	-	
<i>Gloeophyllum trabeum</i>	0	-	
<i>Fomitiporia mediterranea</i>	0	-	
<i>Dichomitus squalens</i>	0	-	
<i>Fibroporia radiculosa</i>	0	-	
<i>Phanerochaete carnosae</i>	0	-	
<i>Postia placenta</i>	0	-	
<i>Trametes versicolor</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Heterobasidion irregulare</i>	0	-	
<i>Stereum hirsutum</i>	0	-	
<i>Spizellomyces punctatus</i>	0	-	
<i>Batrachochytrium dendrobatidis</i>	0	-	
<i>Diplodia corticola</i>	0	-	
<i>Neofusicoccum parvum</i>	0	-	
<i>Baudoinia panamericana</i>	0	-	
<i>Cercospora beticola</i>	0	-	
<i>Pseudocercospora fijiensis</i>	0	-	
<i>Sphaerulina musiva</i>	0	-	
<i>Zymoseptoria tritici</i>	0	-	
<i>Aureobasidium namibiae</i>	0	-	
<i>Aureobasidium subglaciale</i>	0	-	
<i>Coniosporium apollinis</i>	0	-	
<i>Paraphaeosphaeria sporulosa</i>	0	-	
<i>Parastagonospora nodorum</i>	0	-	
<i>Leptosphaeria maculans</i>	0	-	
<i>Alternaria alternata</i>	0	-	
<i>Bipolaris maydis</i>	0	-	
<i>Bipolaris oryzae</i>	0	-	
<i>Bipolaris sorokiniana</i>	0	-	
<i>Bipolaris victoriae</i>	0	-	
<i>Bipolaris zeicola</i>	0	-	
<i>Pyrenophora teres</i>	0	-	
<i>Pyrenophora tritici-repentis</i>	0	-	
<i>Setosphaeria turcica</i>	0	-	
<i>Verruconis gallopava</i>	0	-	
<i>Cyphellophora europaea</i>	0	-	
<i>Capronia coronata</i>	0	-	
<i>Capronia epimyces</i>	0	-	
<i>Cladophialophora bantiana</i>	0	-	
<i>Cladophialophora carrionii</i>	0	-	
<i>Cladophialophora immunda</i>	0	-	
<i>Cladophialophora psammophila</i>	0	-	
<i>Cladophialophora yegresii</i>	0	-	
<i>Exophiala aquamarina</i>	0	-	
<i>Exophiala dermatitidis</i>	0	-	
<i>Exophiala mesophila</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Exophiala oligosperma</i>	0	-	
<i>Exophiala spinifera</i>	0	-	
<i>Exophiala xenobiotica</i>	0	-	
<i>Fonsecaea erecta</i>	0	-	
<i>Fonsecaea monophora</i>	0	-	
<i>Fonsecaea multimorphosa</i>	0	-	
<i>Fonsecaea nubica</i>	0	-	
<i>Fonsecaea pedrosoi</i>	0	-	
<i>Phialophora attae</i>	0	-	
<i>Rhinocladiella mackenziei</i>	0	-	
<i>Aspergillus aculeatus</i>	0	-	
<i>Aspergillus bombycis</i>	0	-	
<i>Aspergillus clavatus</i>	0	-	
<i>Aspergillus fischeri</i>	0	-	
<i>Aspergillus flavus</i>	0	-	
<i>Aspergillus fumigatus</i>	0	-	
<i>Aspergillus glaucus</i>	0	-	
<i>Aspergillus nidulans</i>	0	-	
<i>Aspergillus niger</i>	0	-	
<i>Aspergillus nomius</i>	0	-	
<i>Aspergillus oryzae</i>	0	-	
<i>Aspergillus terreus</i>	0	-	
<i>Penicillium zonata</i>	0	-	
<i>Penicillium arizonense</i>	0	-	
<i>Penicillium chrysogenum</i>	0	-	
<i>Penicillium digitatum</i>	0	-	
<i>Penicillium expansum</i>	0	-	
<i>Penicillium marneffei</i>	0	-	
<i>Rasamsonia emersonii</i>	0	-	
<i>Talaromyces atrovirens</i>	0	-	
<i>Talaromyces stipitatus</i>	0	-	
<i>Ajellomyces dermatitidis</i>	0	-	
<i>Arthroderma otae</i>	0	-	
<i>Coccidioides immitis</i>	0	-	
<i>Coccidioides posadasii</i>	0	-	
<i>Histoplasma capsulatum</i>	0	-	
<i>Nannizzia gypsea</i>	0	-	
<i>Paracoccidioides brasiliensis</i>	0	-	
<i>Paracoccidioides lutzii</i>	0	-	
<i>Trichophyton benhamiae</i>	0	-	
<i>Trichophyton rubrum</i>	0	-	
<i>Trichophyton verrucosum</i>	0	-	
<i>Uncinocarpus reesii</i>	0	-	
<i>Endocarpon pusillum</i>	0	-	
<i>Tilletiaria anomala</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Botryotinia fuckeliana</i>	0	-	
<i>Glarea lozoyensis</i>	0	-	
<i>Marssonina brunnea</i>	0	-	
<i>Phialocephala scopiformis</i>	0	-	
<i>Sclerotinia sclerotiorum</i>	0	-	
<i>Pseudogymnoascus destructans</i>	0	-	
<i>Pseudogymnoascus verrucosus</i>	0	-	
<i>Malassezia globosa</i>	0	-	
<i>Malassezia pachydermatis</i>	0	-	
<i>Malassezia sympodialis</i>	0	-	
<i>Rhodotorula graminis</i>	0	-	
<i>Rhodotorula toruloides</i>	0	-	
<i>Mixia osmundae</i>	0	-	
<i>Arthrobotrys oligospora</i>	0	-	
<i>Dactylellina haptotyla</i>	0	-	
<i>Tuber melanosporum</i>	0	-	
<i>Pneumocystis carinii</i>	0	-	
<i>Pneumocystis jirovecii</i>	0	-	
<i>Pneumocystis murina</i>	0	-	
<i>Melampsora larici-populina</i>	0	-	
<i>Puccinia graminis</i>	0	-	
<i>Candida albicans</i>	0	-	
<i>Candida auris</i>	0	-	
<i>Candida dubliniensis</i>	0	-	
<i>Candida glabrata</i>	0	-	
<i>Candida orthopsilosis</i>	0	-	
<i>Candida tanzawaensis</i>	0	-	
<i>Candida tenuis</i>	0	-	
<i>Candida tropicalis</i>	0	-	
<i>Lodderomyces elongisporus</i>	0	-	
<i>Ascoidea rubescens</i>	0	-	
<i>Babjeviella inositovora</i>	0	-	
<i>Clavispora lusitaniae</i>	0	-	
<i>Cyberlindnera jadinii</i>	0	-	
<i>Debaryomyces fabryi</i>	0	-	
<i>Debaryomyces hansenii</i>	0	-	
<i>Eremothecium cymbalariae</i>	0	-	
<i>Eremothecium gossypii</i>	0	-	
<i>Eremothecium sinicaudum</i>	0	-	
<i>Hyphopichia burtonii</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Kazachstania africana</i>	0	-	
<i>Kazachstania naganishii</i>	0	-	
<i>Kluyveromyces lactis</i>	0	-	
<i>Kluyveromyces marxianus</i>	0	-	
<i>Komagataella phaffii</i>	0	-	
<i>Kuraishia capsulata</i>	0	-	
<i>Lachancea lanzarotensis</i>	0	-	
<i>Lachancea thermotolerans</i>	0	-	
<i>Metschnikowia bicuspidata</i>	0	-	
<i>Meyerozyma guilliermondii</i>	0	-	
<i>Naumovozya castellii</i>	0	-	
<i>Naumovozya dairenensis</i>	0	-	
<i>Ogataea parapolyomorpha</i>	0	-	
<i>Ogataea polymorpha</i>	0	-	
<i>Saccharomyces cerevisiae</i>	0	-	
<i>Saccharomyces eubayanus</i>	0	-	
<i>Spathaspora passalidarum</i>	0	-	
<i>Sugiyamaella lignohabitans</i>	0	-	
<i>Tetrapisispora blattae</i>	0	-	
<i>Tetrapisispora phaffii</i>	0	-	
<i>Torulaspora delbrueckii</i>	0	-	
<i>Vanderwaltozyma polyspora</i>	0	-	
<i>Yarrowia lipolytica</i>	0	-	
<i>Zygosaccharomyces rouxii</i>	0	-	
<i>Wickerhamomyces anomalus</i>	0	-	
<i>Wickerhamomyces ciferrii</i>	0	-	
<i>Scheffersomyces stipitis</i>	0	-	
<i>Pichia kudriavzevii</i>	0	-	
<i>Pichia membranifaciens</i>	0	-	
<i>Schizosaccharomyces cryophilus</i>	0	-	
<i>Schizosaccharomyces japonicus</i>	0	-	
<i>Schizosaccharomyces octosporus</i>	0	-	
<i>Schizosaccharomyces pombe</i>	0	-	
<i>Metarhizium acridum</i>	0	-	
<i>Metarhizium brunneum</i>	0	-	
<i>Metarhizium majus</i>	0	-	
<i>Metarhizium robertsii</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Pochonia chlamydosporia</i>	0	-	
<i>Beauveria bassiana</i>	0	-	
<i>Cordyceps militaris</i>	0	-	
<i>Isaria fumosorosea</i>	0	-	
<i>Trichoderma atroviride</i>	0	-	
<i>Trichoderma gamsii</i>	0	-	
<i>Trichoderma reesei</i>	0	-	
<i>Trichoderma virens</i>	0	-	
<i>Fusarium fujikuroi</i>	0	-	
<i>Fusarium graminearum</i>	0	-	
<i>Fusarium oxysporum</i>	0	-	
<i>Fusarium pseudograminearum</i>	0	-	
<i>Fusarium verticillioides</i>	0	-	
<i>Nectria haematococca</i>	0	-	
<i>Purpureocillium lilacinum</i>	0	-	
<i>Colletotrichum fioriniae</i>	0	-	
<i>Colletotrichum gloeosporioides</i>	0	-	
<i>Colletotrichum graminicola</i>	0	-	
<i>Colletotrichum higginsianum</i>	0	-	
<i>Colletotrichum orchidophilum</i>	0	-	
<i>Verticillium alfalfae</i>	0	-	
<i>Verticillium dahliae</i>	0	-	
<i>Magnaporthe oryzae</i>	0	-	
<i>Gaeumannomyces tritici</i>	0	-	
<i>Scedosporium apiospermum</i>	0	-	
<i>Grosmannia clavigera</i>	0	-	
<i>Sporothrix schenckii</i>	0	-	
<i>Chaetomium globosum</i>	0	-	
<i>Chaetomium thermophilum</i>	0	-	
<i>Neurospora crassa</i>	0	-	
<i>Neurospora tetrasperma</i>	0	-	
<i>Podospora anserina</i>	0	-	
<i>Sordaria macrospora</i>	0	-	
<i>Thermothelomyces thermophila</i>	0	-	
<i>Thielavia terrestris</i>	0	-	
<i>Phaeoacremonium minimum</i>	0	-	
<i>Eutypa lata</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Pestalotiopsis fici</i>	0	-	
<i>Cryptococcus amyloletus</i>	0	-	
<i>Cryptococcus gattii</i>	0	-	
<i>Cryptococcus neoformans</i> <i>var. grubii</i>	0	-	
<i>Cryptococcus neoformans</i> <i>var. neoformans JEC21</i>	0	-	
<i>Cryptococcus neoformans</i> <i>var. neoformans B-3501A</i>	0	-	
<i>Kockovaella imperatae</i>	0	-	
<i>Kwoniella bestiolae</i>	0	-	
<i>Kwoniella dejecticola</i>	0	-	
<i>Kwoniella mangroviensis</i>	0	-	
<i>Kwoniella pini</i>	0	-	
<i>Tremella mesenterica</i>	0	-	
<i>Tsuchiyaea wingfieldii</i>	0	-	
<i>Cutaneotrichosporon</i> <i>oleaginosus</i>	0	-	
<i>Trichosporon asahii</i>	0	-	
<i>Anthracycystis flocculosa</i>	0	-	
<i>Kalmanozyma brasiliensis</i>	0	-	
<i>Moesziomyces antarcticus</i>	0	-	
<i>Pseudozyma hubeiensis</i>	0	-	
<i>Ustilago maydis</i>	0	-	
<i>Wallemia ichthyophaga</i>	0	-	
<i>Wallemia mellicola</i>	0	-	
<i>Xylona heveae</i>	0	-	
<i>Saitoella complicata</i>	0	-	
<i>Lobosporangium</i> <i>transversale</i>	0	-	
<i>Phycomyces blakesleeanus</i>	0	-	
<i>Rhizopus microsporus</i>	0	-	
<i>Encephalitozoon cuniculi</i>	0	-	
<i>Encephalitozoon hellem</i>	0	-	
<i>Encephalitozoon</i> <i>intestinalis</i>	0	-	
<i>Encephalitozoon romaleae</i>	0	-	
<i>Enterocytozoon bieneusi</i>	0	-	
<i>Mitosporidium daphniae</i>	0	-	
<i>Nematocida parisii</i>	0	-	
<i>Nosema ceranae</i>	0	-	
<i>Ordospora colligata</i>	0	-	
<i>Vavraia culicis</i>	0	-	
<i>Vittaforma corneae</i>	0	-	
VIRIDIPLANTAE			

Species	# L1 hits	Length distribution (bp)	Notes
<i>Micromonas pusilla</i> CCMP1545	0	-	
<i>Micromonas</i> sp. RCC299	0	-	
<i>Ostreococcus lucimarinus</i> CCE9901	0	-	
<i>Ostreococcus tauri</i>	0	-	
<i>Chlamydomonas</i> <i>reinhardtii</i>	0	-	
<i>Volvox carteri</i> f. <i>nagariensis</i>	0	-	
<i>Chlorella variabilis</i>	0	-	
<i>Auxenochlorella</i> <i>protothecoides</i>	0	-	
<i>Helicosporidium</i> sp. ATCC 50920	0	-	
<i>Coccomyxa subellipsoidea</i> C-169	0	-	
<i>Klebsormidium flaccidum</i>	0	-	
<i>Physcomitrella patens</i>	0	-	
<i>Selaginella moellendorffii</i>	0	-	
<i>Pinus taeda</i>	0	-	
<i>Amborella trichopoda</i>	0	-	
<i>Spirodela polyrhiza</i>	0	-	
<i>Phoenix dactylifera</i>	0	-	
<i>Elaeis oleifera</i>	0	-	
<i>Ensete ventricosum</i>	0	-	
<i>Musa acuminata</i> subsp. <i>malaccensis</i>	0	-	
<i>Sorghum bicolor</i>	0	-	
<i>Zea mays</i>	0	-	
<i>Setaria italica</i>	0	-	
<i>Brachypodium distachyon</i>	0	-	
<i>Leersia perrieri</i>	0	-	
<i>Oryza barthii</i>	0	-	
<i>Oryza brachyantha</i>	0	-	
<i>Oryza glumipatula</i>	0	-	
<i>Oryza longistaminata</i>	0	-	
<i>Oryza meridionalis</i>	0	-	
<i>Oryza nivara</i>	0	-	
<i>Oryza punctata</i>	0	-	
<i>Oryza sativa Japonica</i> Group	0	-	
<i>Zizania latifolia</i>	0	-	
<i>Aegilops tauschii</i>	0	-	
<i>Triticum urartu</i>	0	-	
<i>Nelumbo nucifera</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Lupinus angustifolius</i>	0	-	
<i>Phaseolus vulgaris</i>	0	-	
<i>Cajanus cajan</i>	0	-	
<i>Vigna angularis</i> var. <i>angularis</i>	0	-	
<i>Vigna radiata</i> var. <i>radiata</i>	0	-	
<i>Glycine max</i>	0	-	
<i>Glycine soja</i>	0	-	
<i>Cicer arietinum</i>	0	-	
<i>Medicago truncatula</i>	0	-	
<i>Trifolium pratense</i>	0	-	
<i>Lotus japonicus</i>	0	-	
<i>Malus x domestica</i>	0	-	
<i>Pyrus x bretschneideri</i>	0	-	
<i>Prunus mume</i>	0	-	
<i>Prunus persica</i>	0	-	
<i>Fragaria iinumae</i>	0	-	
<i>Fragaria nubicola</i>	0	-	
<i>Fragaria orientalis</i>	0	-	
<i>Fragaria vesca</i> subsp. <i>vesca</i>	0	-	
<i>Fragaria x ananassa</i>	0	-	
<i>Morus notabilis</i>	0	-	
<i>Cannabis sativa</i>	0	-	
<i>Castanea mollissima</i>	0	-	
<i>Betula nana</i>	0	-	
<i>Cucumis melo</i>	0	-	
<i>Cucumis sativus</i>	0	-	
<i>Citrullus lanatus</i>	0	-	
<i>Lagenaria siceraria</i>	0	-	
<i>Populus euphratica</i>	0	-	
<i>Populus trichocarpa</i>	0	-	
<i>Jatropha curcas</i>	0	-	
<i>Manihot esculenta</i> subsp. <i>flabellifolia</i>	0	-	
<i>Ricinus communis</i>	0	-	
<i>Linum usitatissimum</i>	0	-	
<i>Eucalyptus camaldulensis</i>	0	-	
<i>Eucalyptus grandis</i>	0	-	
<i>Carica papaya</i>	0	-	
<i>Arabidopsis halleri</i> subsp. <i>gemmifera</i>	0	-	
<i>Arabidopsis lyrata</i> subsp. <i>lyrata</i>	0	-	
<i>Arabidopsis thaliana</i>	0	-	
<i>Camelina sativa</i>	0	-	

Species	# L1 hits	Length distribution (bp)	Notes
<i>Penstemon centranthifolius</i>	0	-	
<i>Penstemon grinnellii</i>	0	-	
<i>Sesamum indicum</i>	0	-	
<i>Genlisea aurea</i>	0	-	
<i>Mimulus guttatus</i>	0	-	
<i>Conyza canadensis</i>	0	-	

Table S4: Genome coverage of L1 and BovB elements

Table S4: Shows the calculations used to generate the bargraph in Fig 1 of the manuscript. BovB and L1 base counts are primarily based on full-length elements. Species that don't have L1s nor BovBs are not listed.

Species	Genome base count	BovB base count, percentage of genome	L1 base count, percentage of genome
MAMMALIA			
<i>Tachyglossus aculeatus</i>	2020007912	1452458, 0.0719036%	0, 0%
<i>Ornithorhynchus anatinus</i>	1996811212	1830086, 0.0916504%	0, 0%
<i>Monodelphis domestica</i>	3605631728	3273062, 0.0907764%	291203623, 8.07636%
<i>Macropus eugenii</i>	3075184024	1715506, 0.0557855%	77958311, 2.53508%
<i>Sarcophilus harrisii</i>	3174693010	3031341, 0.0954845%	95592375, 3.01107%
<i>Dasypus novemcinctus</i>	3631505655	0, 0%	257879875, 7.10118%
<i>Choloepus hoffmanni</i>	2458927620	0, 0%	145367124, 5.91181%
<i>Chrysochloris asiatica</i>	4210093806	108751003, 2.5831%	108660240, 2.58095%
<i>Echinops telfairi</i>	2947007737	20606032, 0.699219%	53945548, 1.83052%
<i>Orycteropus afer</i>	4444063711	102512334, 2.30673%	196663330, 4.4253%
<i>Elephantulus edwardii</i>	3843982861	161028145, 4.1891%	161200386, 4.19358%
<i>Trichechus manatus</i>	3103791524	27624301, 0.890018%	198750171, 6.40346%
<i>Procapra capensis</i>	2985258999	19116374, 0.640359%	177090807, 5.93218%
<i>Loxodonta africana</i>	3271792967	34432824, 1.05241%	313797498, 9.59099%
<i>Erinaceus europaeus</i>	2715703478	0, 0%	80293621, 2.95664%
<i>Sorex araneus</i>	2423158183	0, 0%	79834929, 3.29466%
<i>Condylura cristata</i>	1769662895	0, 0%	42147711, 2.38168%
<i>Pteropus alecto</i>	1985958707	112864, 0.0056831%	109229895, 5.50011%
<i>Pteropus vampyrus</i>	1996076410	79090, 0.00396227%	67971403, 3.40525%
<i>Eidolon helvum</i>	1837754460	100637, 0.00547609%	50920531, 2.7708%
<i>Megaderma lyra</i>	1735931796	72504, 0.00417666%	43660935, 2.51513%
<i>Rhinolophus ferrumequinum</i>	1926439238	119310, 0.00619329%	50326653, 2.61242%
<i>Pteronotus parnellii</i>	1960317893	78360, 0.00399731%	56150083, 2.86434%
<i>Eptesicus fuscus</i>	2026629342	58336, 0.00287847%	59441803, 2.93304%
<i>Myotis brandtii</i>	2107242811	84290, 0.00400001%	72446482, 3.43798%
<i>Myotis davidii</i>	2059799708	71276, 0.00346034%	51012406, 2.47657%
<i>Myotis lucifugus</i>	2034575300	87666, 0.00430881%	84847408, 4.17028%
<i>Ceratotherium simum simum</i>	2464350348	292804, 0.0118816%	160676871, 6.52005%
<i>Equus przewalskii</i>	2395937679	247857, 0.0103449%	135134972, 5.64017%
<i>Equus caballus Thoroughbred</i>	2484532062	223242, 0.00898527%	191150416, 7.69362%
<i>Equus caballus Mongolian</i>	2377506909	265688, 0.0111751%	123172165, 5.18073%
<i>Manis pentadactyla</i>	2204732179	0, 0%	112483171, 5.1019%
<i>Felis catus</i>	2455541136	0, 0%	163774030, 6.66957%
<i>Panthera tigris altaica</i>	2391065193	0, 0%	155431501, 6.50051%
<i>Canis lupus familiaris</i>	2410960148	0, 0%	163347315, 6.7752%
<i>Ursus maritimus</i>	2301362327	0, 0%	154988843, 6.73466%

Species	Genome base count	BovB base count, percentage of genome	L1 base count, percentage of genome
<i>Ailuropoda melanoleuca</i>	2299509015	0, 0%	105301329, 4.5793%
<i>Leptonychotes weddellii</i>	3156886159	0, 0%	112493456, 3.56343%
<i>Odobenus rosmarus divergens</i>	2400133628	0, 0%	137079744, 5.71134%
<i>Mustela putorius furo</i>	2410863155	0, 0%	143960591, 5.97133%
<i>Camelus dromedarius</i>	2004047047	0, 0%	101966754, 5.08804%
<i>Camelus ferus</i>	2009177929	0, 0%	86491041, 4.3048%
<i>Vicugna pacos</i>	2172191320	0, 0%	113049718, 5.20441%
<i>Sus scrofa Duroc</i>	2808509378	0, 0%	176658966, 6.29013%
<i>Sus scrofa Tibetan</i>	2489155924	0, 0%	134715498, 5.4121%
<i>Sus scrofa Ellegaard Gottingen</i>	2358017222	0, 0%	117750484, 4.99362%
<i>Balaenoptera acutorostrata scammoni</i>	2431671281	0, 0%	190619715, 7.83904%
<i>Physeter catodon</i>	2280711356	0, 0%	146560263, 6.42608%
<i>Lipotes vexillifer</i>	2429195737	0, 0%	271942192, 11.1947%
<i>Tursiops truncatus</i>	2551401796	0, 0%	119886176, 4.69884%
<i>Orcinus orca</i>	2372903489	0, 0%	205346717, 8.65382%
<i>Pantholops hodgsonii</i>	2696869832	200623622, 7.43913%	90462265, 3.35434%
<i>Capra hircus</i>	2635832257	225462902, 8.55377%	95239112, 3.61325%
<i>Ovis aries Texel</i>	2619054388	249955158, 9.54372%	108872698, 4.15695%
<i>Ovis aries musimon</i>	2589834840	200496380, 7.74167%	71959650, 2.77854%
<i>Bubalus bubalis</i>	2836150610	286296759, 10.0946%	104875469, 3.69781%
<i>Bison bison bison</i>	2953606000	315448446, 10.6801%	127745325, 4.32506%
<i>Bos mutus</i>	2645145588	217297691, 8.21496%	82289329, 3.11096%
<i>Bos indicus</i>	2673949103	287691777, 10.7591%	110741149, 4.14148%
<i>Bos taurus</i>	2670422299	309871737, 11.6038%	126156398, 4.72421%
<i>Ochotona princeps</i>	2229824103	0, 0%	34195120, 1.53353%
<i>Oryctolagus cuniculus</i>	2737490501	0, 0%	139192850, 5.08469%
<i>Ictidomys tridecemlineatus</i>	2478393770	0, 0%	107499669, 4.33747%
<i>Heterocephalus glaber</i>	2618188253	0, 0%	155993240, 5.95806%
<i>Fukomys damarensis</i>	2333892479	0, 0%	161817287, 6.93337%
<i>Cavia aperea</i>	2716396567	0, 0%	136757020, 5.0345%
<i>Cavia porcellus</i>	2723219641	0, 0%	235803425, 8.65899%
<i>Chinchilla lanigera</i>	2390852391	0, 0%	128385455, 5.36986%
<i>Octodon degus</i>	2995872505	0, 0%	138452612, 4.62145%
<i>Dipodomys ordii</i>	2158502098	0, 0%	34330234, 1.59047%
<i>Jaculus jaculus</i>	2835233679	0, 0%	96017503, 3.38658%
<i>Nannospalax galili</i>	3061408210	0, 0%	136788334, 4.46815%
<i>Mesocricetus auratus</i>	2504908775	0, 0%	80503182, 3.21382%
<i>Cricetulus griseus</i>	2399770464	0, 0%	79279532, 3.30363%
<i>Microtus ochrogaster</i>	2287340943	0, 0%	52224812, 2.28321%

Species	Genome base count	BovB base count, percentage of genome	L1 base count, percentage of genome
<i>Peromyscus maniculatus bairdii</i>	2630541020	0, 0%	53188010, 2.02194%
<i>Rattus norvegicus</i>	2909682625	0, 0%	207049946, 7.11589%
<i>Mus musculus</i>	2730855475	0, 0%	231145319, 8.46421%
<i>Tupaia belangeri</i>	3660774957	0, 0%	51474914, 1.40612%
<i>Tupaia chinensis</i>	2846580235	0, 0%	89655790, 3.1496%
<i>Galeopterus variegatus</i>	3187643824	0, 0%	139985621, 4.39151%
<i>Otolemur garnettii</i>	2519724550	0, 0%	146546821, 5.81599%
<i>Microcebus murinus</i>	2902270736	0, 0%	68180677, 2.34922%
<i>Tarsius syrichta</i>	3453847770	0, 0%	240202647, 6.95464%
<i>Callithrix jacchus</i>	2914958544	0, 0%	246251310, 8.44785%
<i>Saimiri boliviensis</i>	2608572064	0, 0%	179339572, 6.87501%
<i>Rhinopithecus roxellana</i>	2899535590	0, 0%	207691102, 7.16291%
<i>Nasalis larvatus</i>	3011966170	0, 0%	154710505, 5.13653%
<i>Chlorocebus sabaeus</i>	2789639778	0, 0%	204188513, 7.31953%
<i>Macaca fascicularis</i>	2946827162	0, 0%	224863209, 7.63069%
<i>Macaca mulatta</i>	2969988180	0, 0%	154566974, 5.2043%
<i>Papio anubis</i>	2948380710	0, 0%	223973218, 7.59648%
<i>Nomascus leucogenys</i>	2962077449	0, 0%	230918510, 7.79583%
<i>Pongo abelii</i>	3441227734	0, 0%	263895353, 7.66864%
<i>Gorilla gorilla</i>	3029537234	0, 0%	212654289, 7.01937%
<i>Pan paniscus</i>	2869173508	0, 0%	241958348, 8.43303%
<i>Pan troglodytes</i>	3309577922	0, 0%	243238952, 7.34955%
<i>Homo sapiens</i>	3101788170	0, 0%	247845149, 7.9904%
SAUROPSIDA			
<i>Apalone spinifera</i>	1931078847	0, 0%	1378934, 0.0714074%
<i>Pelodiscus sinensis</i>	2202466388	0, 0%	1581495, 0.0718056%
<i>Chelonia mydas</i>	2208393880	0, 0%	4027549, 0.182375%
<i>Chrysemys picta bellii</i>	2365749696	0, 0%	3441306, 0.145464%
<i>Struthio camelus australis</i>	1225025301	0, 0%	23472, 0.00191604%
<i>Tinamus guttatus</i>	1047056493	0, 0%	8938, 0.000853631%
<i>Anas platyrhynchos</i>	1105035747	0, 0%	21072, 0.00190691%
<i>Lyrurus tetrix</i>	657025294	0, 0%	6332, 0.000963738%
<i>Gallus gallus</i>	1046932099	0, 0%	9721, 0.000928522%
<i>Coturnix japonica</i>	531959683	0, 0%	2234, 0.000419957%
<i>Meleagris gallopavo</i>	1061817101	0, 0%	6761, 0.000636739%
<i>Colinus virginianus</i>	1171855925	0, 0%	62926, 0.00536977%
<i>Acanthisitta chloris</i>	1035876403	0, 0%	25733, 0.00248418%
<i>Manacus vitellinus</i>	1145871783	0, 0%	19832, 0.00173073%
<i>Zonotrichia albicollis</i>	1052600561	0, 0%	12478, 0.00118544%
<i>Geospiza fortis</i>	1065292181	0, 0%	16040, 0.00150569%
<i>Serinus canaria</i>	1152083301	0, 0%	59037, 0.00512437%
<i>Taeniopygia guttata</i>	1233186341	0, 0%	15804, 0.00128156%
<i>Ficedula albicollis</i>	1118326800	0, 0%	16340, 0.00146111%

Species	Genome base count	BovB base count, percentage of genome	L1 base count, percentage of genome
<i>Pseudopodoces humilis</i>	1042980823	0, 0%	18864, 0.00180866%
<i>Corvus brachyrhynchos</i>	1091312783	0, 0%	23878, 0.00218801%
<i>Corvus cornix cornix</i>	1049947905	0, 0%	20517, 0.0019541%
<i>Ara macao</i>	1204683257	0, 0%	18584, 0.00154265%
<i>Amazona vittata</i>	1175404042	0, 0%	23188, 0.00197277%
<i>Melopsittacus undulatus</i>	1117373619	0, 0%	20189, 0.00180683%
<i>Nestor notabilis</i>	1053559886	0, 0%	26182, 0.0024851%
<i>Falco cherrug</i>	1174811715	0, 0%	27430, 0.00233484%
<i>Falco peregrinus</i>	1171955363	0, 0%	26702, 0.00227841%
<i>Cariama cristata</i>	1132245425	0, 0%	34112, 0.00301277%
<i>Merops nubicus</i>	1062961556	0, 0%	23329, 0.00219472%
<i>Picoides pubescens</i>	1167323935	0, 0%	9100, 0.000779561%
<i>Buceros rhinoceros silvestris</i>	1065782791	0, 0%	18845, 0.00176818%
<i>Apaloderma vittatum</i>	1070836417	0, 0%	24052, 0.00224609%
<i>Leptosomus discolor</i>	1136244952	0, 0%	23034, 0.0020272%
<i>Haliaeetus albicilla</i>	1133549865	0, 0%	35410, 0.00312381%
<i>Haliaeetus leucocephalus</i>	1178409481	0, 0%	35701, 0.00302959%
<i>Aquila chrysaetos canadensis</i>	1192725744	0, 0%	33910, 0.00284307%
<i>Cathartes aura</i>	1152571117	0, 0%	38120, 0.00330739%
<i>Tyto alba</i>	1120143088	0, 0%	38958, 0.00347795%
<i>Colius striatus</i>	1075931597	0, 0%	24811, 0.002306%
<i>Charadrius vociferus</i>	1219859583	0, 0%	33056, 0.00270982%
<i>Balearica regulorum gibbericeps</i>	1127605500	0, 0%	35488, 0.0031472%
<i>Chlamydotis macqueenii</i>	1086566339	0, 0%	31476, 0.00289683%
<i>Cuculus canorus</i>	1153894225	0, 0%	19702, 0.00170744%
<i>Fulmarus glacialis</i>	1141395646	0, 0%	35689, 0.00312679%
<i>Aptenodytes forsteri</i>	1254347440	0, 0%	43865, 0.00349704%
<i>Pygoscelis adeliae</i>	1216600033	0, 0%	43236, 0.00355384%
<i>Phalacrocorax carbo</i>	1138967842	0, 0%	29871, 0.00262264%
<i>Pelecanus crispus</i>	1160924693	0, 0%	34119, 0.00293895%
<i>Nipponia nippon</i>	1223846297	0, 0%	37927, 0.003099%
<i>Egretta garzetta</i>	1206484573	0, 0%	36603, 0.00303386%
<i>Gavia stellata</i>	1129677294	0, 0%	38510, 0.00340894%
<i>Tauraco erythrolophus</i>	1155540733	0, 0%	27530, 0.00238243%
<i>Opisthocomus hoazin</i>	1203712246	0, 0%	45662, 0.00379343%
<i>Columba livia</i>	1107971856	0, 0%	28752, 0.00259501%
<i>Pterocles gutturalis</i>	1069324295	0, 0%	32937, 0.00308017%
<i>Phaethon lepturus</i>	1152958507	0, 0%	29672, 0.00257355%
<i>Calypte anna</i>	1105676412	0, 0%	17154, 0.00155145%
<i>Chaetura pelagica</i>	1119188094	0, 0%	16739, 0.00149564%
<i>Caprimulgus carolinensis</i>	1119683066	0, 0%	32635, 0.00291466%

Species	Genome base count	BovB base count, percentage of genome	L1 base count, percentage of genome
<i>Eurypyga helias</i>	1088019637	0, 0%	20244, 0.00186063%
<i>Mesitornis unicolor</i>	1087290853	0, 0%	22907, 0.0021068%
<i>Podiceps cristatus</i>	1134922578	0, 0%	23144, 0.00203926%
<i>Phoenicopterus ruber</i>	1132184511	0, 0%	38050, 0.00336076%
<i>Alligator mississippiensis</i>	2174259888	0, 0%	5988372, 0.275421%
<i>Alligator sinensis</i>	2270550999	0, 0%	6999721, 0.308283%
<i>Crocodylus porosus</i>	2120573303	0, 0%	4601841, 0.217009%
<i>Gavialis gangeticus</i>	2188353730	0, 0%	4914507, 0.224576%
<i>Pogona vitticeps</i>	1816116151	34892879, 1.92129%	3992505, 0.219838%
<i>Anolis carolinensis</i>	1799143587	10307612, 0.572918%	13231926, 0.735457%
<i>Vipera berus berus</i>	1532390814	5053647, 0.329788%	4980408, 0.325009%
<i>Crotalus mitchellii pyrrhus</i>	1126791715	827313, 0.073422%	1914415, 0.1699%
<i>Ophiophagus hannah</i>	1594074654	1525335, 0.0956878%	6627163, 0.415737%
<i>Python bivittatus</i>	1435034535	3932416, 0.274029%	3913976, 0.272744%
AMPHIBIA			
<i>Xenopus tropicalis</i>	1437513269	22381, 0.00155692%	10038037, 0.698292%
<i>Xenopus laevis</i>	2718416252	24071, 0.000885479%	23728273, 0.872871%
<i>Nanorana parkeri</i>	2053849526	39534, 0.00192487%	20631712, 1.00454%
NEOPTERYGII			
<i>Lepisosteus oculatus</i>	945861706	74445, 0.0078706%	805428, 0.0851528%
<i>Anguilla anguilla</i>	1018701900	0, 0%	1178915, 0.115727%
<i>Anguilla japonica</i>	1151120721	0, 0%	1520279, 0.132069%
<i>Danio rerio</i>	1412464843	20681, 0.00146418%	6341494, 0.448967%
<i>Astyanax mexicanus</i>	1191242572	0, 0%	655594, 0.0550345%
<i>Oryzias latipes</i>	869801494	0, 0%	3737740, 0.429723%
<i>Poecilia formosa</i>	748923461	0, 0%	1514195, 0.202183%
<i>Xiphophorus maculatus</i>	729647787	0, 0%	1081259, 0.148189%
<i>Fundulus heteroclitus</i>	1021882034	0, 0%	2463073, 0.241033%
<i>Takifugu flavidus</i>	378032400	0, 0%	587772, 0.155482%
<i>Takifugu rubripes</i>	391484715	0, 0%	683087, 0.174486%
<i>Tetraodon nigroviridis</i>	358618246	0, 0%	224868, 0.062704%
<i>Cynoglossus semilaevis</i>	470182763	6328, 0.00134586%	129721, 0.0275895%
<i>Haplochromis burtoni</i>	831411547	0, 0%	1596803, 0.192059%
<i>Pundamilia nyererei</i>	830133247	0, 0%	1663150, 0.200347%
<i>Maylandia zebra</i>	849595388	0, 0%	1930306, 0.227203%
<i>Neolamprologus brichardi</i>	847893845	0, 0%	1660506, 0.195839%
<i>Oreochromis niloticus</i>	927696114	12320, 0.00132802%	3182269, 0.343029%
<i>Sebastes nigrocinctus</i>	687549873	0, 0%	665754, 0.0968299%
<i>Sebastes rubrivinctus</i>	756296653	0, 0%	636171, 0.0841166%
<i>Gasterosteus aculeatus</i>	463354448	0, 0%	416171, 0.089817%
<i>Gadus morhua</i>	824327835	0, 0%	1086653, 0.131823%
ECDYSOZOA			
<i>Ephemera danica</i>	475911277	6758, 0.00142001%	101494, 0.0213262%

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<i>Ladona fulva</i>	1158111285	0, 0%	448102, 0.0386925%
<i>Pediculus humanus corporis</i>	110781312	0, 0%	33247, 0.0300114%
<i>Frankliniella occidentalis</i>	415781860	0, 0%	123702, 0.0297517%
<i>Diaphorina citri</i>	485705082	44563, 0.00917491%	521323, 0.107333%
<i>Pachypsylla venusta</i>	701763251	0, 0%	90121, 0.0128421%
<i>Acyrtosiphon pisum</i>	541675471	0, 0%	125434, 0.0231567%
<i>Nilaparvata lugens</i>	1140786310	150418, 0.0131855%	1477747, 0.129538%
<i>Oncopeltus fasciatus</i>	1098671531	0, 0%	98206, 0.129538%
<i>Rhodnius prolixus</i>	702645054	0, 0%	132347, 0.0188355%
<i>Cimex lectularius</i>	650477627	88661, 0.0136301%	312967, 0.0481134%
<i>Onthophagus taurus</i>	270533845	0, 0%	131103, 0.0484608%
<i>Agrilus planipennis</i>	353546665	0, 0%	102367, 0.0289543%
<i>Tribolium castaneum</i>	210248733	0, 0%	29847, 0.014196%
<i>Anoplophora glabripennis</i>	707712193	0, 0%	89797, 0.0126883%
<i>Leptinotarsa decemlineata</i>	1170241964	0, 0%	381273, 0.0325807%
<i>Dendroctonus ponderosae</i>	252847629	0, 0%	93067, 0.0368075%
<i>Mengenilla moldrzyki</i>	155727465	0, 0%	7178, 0.00460933%
<i>Aedes aegypti</i>	1383957531	0, 0%	5075165, 0.366714%
<i>Culex quinquefasciatus</i>	579042118	0, 0%	1308898, 0.226045%
<i>Anopheles albimanus</i>	170508315	0, 0%	20956, 0.0122903%
<i>Anopheles arabiensis</i>	246567867	0, 0%	100922, 0.0409307%
<i>Anopheles atroparvus</i>	224290125	0, 0%	128395, 0.0572451%
<i>Anopheles christyi</i>	172658580	0, 0%	60272, 0.0349082%
<i>Anopheles culicifacies</i>	202998806	0, 0%	142545, 0.0702196%
<i>Anopheles darlingi</i>	136935538	0, 0%	13318, 0.00972574%
<i>Anopheles dirus</i>	216307690	0, 0%	268454, 0.124107%
<i>Anopheles epiroticus</i>	223486714	0, 0%	123461, 0.0552431%
<i>Anopheles farauti</i>	183103254	0, 0%	275859, 0.150658%
<i>Anopheles funestus</i>	225223604	0, 0%	141113, 0.0626546%
<i>Anopheles gambiae</i>	287805703	0, 0%	259922, 0.0903116%
<i>Anopheles maculatus</i>	141894015	0, 0%	66565, 0.0469118%
<i>Anopheles melas</i>	224162116	0, 0%	66478, 0.0296562%
<i>Anopheles merus</i>	288048996	0, 0%	155301, 0.0539148%
<i>Anopheles minimus</i>	201793324	0, 0%	107274, 0.0531603%
<i>Anopheles quadriannulatus</i>	283828998	0, 0%	96223, 0.0339018%
<i>Anopheles sinensis</i>	220777669	0, 0%	86072, 0.0389858%
<i>Anopheles stephensi</i>	221324304	0, 0%	70137, 0.0316897%
<i>Mayetiola destructor</i>	185827756	0, 0%	25099, 0.0135066%
<i>Lutzomyia longipalpis</i>	154229266	0, 0%	11504, 0.00745903%
<i>Phlebotomus papatasi</i>	363767980	0, 0%	44465, 0.0122235%
<i>Ceratitis capitata</i>	484773492	0, 0%	62638, 0.0129211%
<i>Drosophila albomicans</i>	253560284	0, 0%	12982, 0.00511989%

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<i>Drosophila ananassae</i>	230993012	0, 0%	6612, 0.00286242%
<i>Drosophila biarmipes</i>	169378599	0, 0%	9683, 0.00571678%
<i>Drosophila bipectinata</i>	167263958	0, 0%	10275, 0.00614299%
<i>Drosophila elegans</i>	171267669	0, 0%	7777, 0.00454085%
<i>Drosophila erecta</i>	152712140	0, 0%	6451, 0.00422429%
<i>Drosophila eugracilis</i>	156942009	0, 0%	8434, 0.00537396%
<i>Drosophila ficusphila</i>	152439475	0, 0%	84442, 0.0553938%
<i>Drosophila grimshawi</i>	200467819	0, 0%	13335, 0.00665194%
<i>Drosophila kikkawai</i>	164292578	0, 0%	12034, 0.00732474%
<i>Drosophila melanogaster</i>	143706478	0, 0%	4915, 0.00342017%
<i>Drosophila miranda</i>	136728780	0, 0%	10424, 0.00762385%
<i>Drosophila mojavensis</i>	193826310	0, 0%	35669, 0.0184026%
<i>Drosophila persimilis</i>	188374079	0, 0%	7072, 0.00375423%
<i>Drosophila pseudoobscura pseudoobscura</i>	152696384	0, 0%	7046, 0.00461439%
<i>Drosophila rhopaloa</i>	197375704	0, 0%	4465, 0.00226218%
<i>Drosophila sechellia</i>	166577145	0, 0%	4293, 0.00257718%
<i>Drosophila simulans</i>	137828247	0, 0%	3689, 0.00267652%
<i>Drosophila sukuzii</i>	232923092	0, 0%	18122, 0.00778025%
<i>Drosophila takahashii</i>	182106768	0, 0%	7223, 0.00396635%
<i>Drosophila virilis</i>	206026697	0, 0%	15396, 0.00747282%
<i>Drosophila willistoni</i>	235516348	0, 0%	8718, 0.00370165%
<i>Drosophila yakuba</i>	165693946	0, 0%	7898, 0.00476662%
<i>Musca domestica</i>	750403944	0, 0%	65208, 0.00868972%
<i>Glossina austeni</i>	370264922	0, 0%	47253, 0.0127619%
<i>Glossina brevipalpis</i>	315360362	0, 0%	59919, 0.0190002%
<i>Glossina fuscipes fuscipes</i>	374774708	0, 0%	49182, 0.0131231%
<i>Glossina morsitans morsitans</i>	363107242	0, 0%	48753, 0.0134266%
<i>Glossina pallidipes</i>	357332231	0, 0%	36772, 0.0102907%
<i>Limnephilus lunatus</i>	1345859447	0, 0%	43713, 0.00324796%
<i>Papilio glaucus</i>	374815656	179060, 0.0477728%	68581, 0.0182973%
<i>Papilio polytes</i>	227005758	0, 0%	10239, 0.00451046%
<i>Papilio xuthus</i>	243890167	0, 0%	33700, 0.0138177%
<i>Heliconius melpomene</i>	273786188	10600, 0.00387163%	5968, 0.0021798%
<i>Melitaea cinxia</i>	389892349	0, 0%	13137, 0.00336939%
<i>Danaus plexippus</i>	272853388	20020, 0.00733727%	18718, 0.00686009%
<i>Bombyx mori</i>	481803763	435424, 0.0903737%	1615213, 0.335243%
<i>Manduca sexta</i>	419412261	31594, 0.00753292%	26668, 0.00635842%
<i>Plutella xylostella</i>	393454548	28327, 0.00719956%	209156, 0.0531589%
<i>Athalia rosae</i>	163837890	0, 0%	13934, 0.00850475%
<i>Cephus cinctus</i>	162226239	0, 0%	33326, 0.0205429%
<i>Orussus abietinus</i>	201220334	0, 0%	18324, 0.00910644%

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<i>Ceratosolen solmsi marchali</i>	277059195	0, 0%	68603, 0.0247611%
<i>Nasonia giraulti</i>	283606953	0, 0%	17238, 0.00607813%
<i>Nasonia longicornis</i>	285726340	0, 0%	14085, 0.00492954%
<i>Nasonia vitripennis</i>	295780872	0, 0%	28451, 0.00961895%
<i>Copidosoma floridanum</i>	555044930	0, 0%	80844, 0.0145653%
<i>Trichogramma pretiosum</i>	196221301	0, 0%	37097, 0.0189057%
<i>Microplitis demolitor</i>	250525215	0, 0%	133621, 0.0533363%
<i>Megachile rotundata</i>	272660569	0, 0%	83736, 0.0307107%
<i>Apis dorsata</i>	230340171	0, 0%	11849, 0.00514413%
<i>Apis florea</i>	230467781	0, 0%	11235, 0.00487487%
<i>Apis mellifera</i>	250270657	0, 0%	12542, 0.00501137%
<i>Bombus impatiens</i>	249185056	0, 0%	43105, 0.0172984%
<i>Bombus terrestris</i>	248654244	0, 0%	20613, 0.00828982%
<i>Linepithema humile</i>	219500750	6510, 0.00296582%	34557, 0.0157435%
<i>Camponotus floridanus</i>	232685334	0, 0%	27476, 0.0118082%
<i>Acromyrmex echinator</i>	295944863	0, 0%	21595, 0.00729697%
<i>Atta cephalotes</i>	317671980	0, 0%	14002, 0.00440769%
<i>Solenopsis invicta</i>	396009169	28437, 0.00718089%	31306, 0.00790537%
<i>Pogonomyrmex barbatus</i>	235645958	4063, 0.0017242%	10237, 0.00434423%
<i>Harpegnathos saltator</i>	294465601	0, 0%	78553, 0.0266765%
<i>Cerapachys biroi</i>	212825769	0, 0%	21905, 0.0102925%
<i>Blattella germanica</i>	2037201033	0, 0%	2091710, 0.102676%
<i>Zootermopsis nevadensis</i>	485009472	0, 0%	64328, 0.0132632%
<i>Locusta migratoria</i>	5759798599	2236765, 0.0388341%	7904827, 0.137241%
<i>Daphnia pulex</i>	197206209	0, 0%	270547, 0.13719%
<i>Eurytemora affinis</i>	494890867	0, 0%	290790, 0.0587584%
<i>Lepeophtheirus salmonis</i>	665129626	0, 0%	12393542, 1.86333%
<i>Hyaella azteca</i>	1178848281	0, 0%	100730, 0.00854478%
<i>Strigamia maritima</i>	176210797	0, 0%	64283, 0.0364807%
<i>Stegodyphus mimosarum</i>	2738704917	0, 0%	1142876, 0.0417305%
<i>Latrodectus hesperus</i>	1137104656	0, 0%	236269, 0.0207781%
<i>Parasteatoda tepidariorum</i>	1443909906	0, 0%	139984, 0.00969479%
<i>Tetranychus urticae</i>	90815494	0, 0%	34385, 0.0378625%
<i>Dermatophagoides farinae</i>	53545338	0, 0%	4466, 0.0083406%
<i>Sarcoptes scabiei type canis</i>	56262437	0, 0%	16880, 0.0300023%
<i>Achipteria coleoptrata</i>	88443889	0, 0%	9799, 0.0110793%
<i>Hypochthonius rufulus</i>	172365132	0, 0%	11855, 0.00687784%
<i>Platynothrus peltifer</i>	100532934	0, 0%	12889, 0.0128207%
<i>Steganacarus magnus</i>	113565242	0, 0%	20382, 0.0179474%
<i>Ixodes ricinus</i>	391986416	0, 0%	914108, 0.233199%
<i>Ixodes scapularis</i>	1765382190	0, 0%	2014997, 0.114139%
<i>Rhipicephalus microplus</i>	144692238	0, 0%	181040, 0.125121%

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<i>Metaseiulus occidentalis</i>	151699350	0, 0%	72727, 0.0479415%
<i>Varroa destructor</i>	294133941	0, 0%	3597, 0.00122291%
<i>Centruroides exilicauda</i>	926399729	184507, 0.0199166%	855306, 0.0923258%
<i>Mesobuthus martensii</i>	925546267	524438, 0.0566625%	396089, 0.0427952%
<i>Limulus polyphemus</i>	1828256766	0, 0%	496277, 0.0271448%
<i>Trichinella spiralis</i>	63525422	0, 0%	8033, 0.0126453%
<i>Ascaris suum</i>	269559681	0, 0%	30473, 0.0113047%
<i>Steinernema monticolum</i>	89158954	0, 0%	17504, 0.0196324%
<i>Panagrellus redivivus</i>	65093147	0, 0%	13032, 0.0200205%
<i>Haemonchus contortus</i>	319757902	0, 0%	352460, 0.110227%
<i>Necator americanus</i>	244075060	0, 0%	29269, 0.0119918%
<i>Heterorhabditis bacteriophora</i>	76974349	0, 0%	244, 0.000316989%
<i>Caenorhabditis angaria</i>	79761545	0, 0%	7885, 0.00988572%
<i>Caenorhabditis brenneri</i>	190369721	0, 0%	38619, 0.0202863%
<i>Caenorhabditis briggsae</i>	108478526	0, 0%	7158, 0.00659854%
<i>Caenorhabditis elegans</i>	100272607	0, 0%	5988, 0.00597172%
<i>Caenorhabditis japonica</i>	166256191	0, 0%	41298, 0.02484%
<i>Caenorhabditis</i> sp. 11 MAF-2010	79321433	0, 0%	5899, 0.00743683%
<i>Priapulus caudatus</i>	420178403	0, 0%	179152, 0.0426371%
PLATYHELMINTHES			
<i>Schistosoma curassoni</i>	344202215	0, 0%	63816, 0.0185403%
<i>Schistosoma haematobium</i>	375894156	0, 0%	42415, 0.0112838%
<i>Schistosoma japonicum</i>	402743189	0, 0%	94449, 0.0234514%
<i>Schistosoma mansoni</i>	364518427	0, 0%	18207, 0.00499481%
<i>Schistosoma margrebowiei</i>	367396528	0, 0%	30287, 0.00824368%
<i>Schistosoma mattheei</i>	340818150	0, 0%	52043, 0.01527%
<i>Schistosoma rodhaini</i>	343294136	0, 0%	29809, 0.00868322%
<i>Clonorchis sinensis</i>	547288241	0, 0%	137669, 0.0251548%
<i>Echinococcus granulosus</i>	112350571	0, 0%	4822, 0.00429192%
<i>Echinococcus multilocularis</i>	7371474	0, 0%	4135, 0.0560946%
<i>Hymenolepis microstoma</i>	126773784	0, 0%	5297, 0.00417831%
<i>Protopolystoma xenopodis</i>	617344661	0, 0%	28573, 0.00462837%
OTHER			
<i>Callorhynchus milii</i>	974481817	0, 0%	96001, 0.00985149%
<i>Carcharhinus brachyurus</i>	2832541493	0, 0%	1383347, 0.0488377%
<i>Lytechinus variegatus</i>	951759914	4192, 0.000440447%	1562525, 0.164172%
<i>Strongylocentrotus purpuratus</i>	936564995	55567, 0.00593306%	2699297, 0.288212%
<i>Patiria miniata</i>	811028858	0, 0%	350468, 0.0432128%
<i>Saccoglossus kowalevskii</i>	775840678	0, 0%	2440029, 0.314501%
<i>Ciona intestinalis</i>	115212710	0, 0%	78094, 0.0677825%

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<i>Ciona savignyi</i>	587352817	29071, 0.0049495%	4044971, 0.688678%
<i>Botryllus schlosseri</i>	579633380	0, 0%	1256055, 0.216698%
<i>Oikopleura dioica</i>	70471451	0, 0%	5276, 0.00748672%
<i>Branchiostoma floridae</i>	521895125	0, 0%	884348, 0.169449%
<i>Lethenteron camtschaticum</i>	1030662718	27180, 0.00263714%	1011092, 0.0981012%
<i>Petromyzon marinus</i>	885550958	0, 0%	680080, 0.0767974%
<i>Latimeria chalumnae</i>	2860591921	113934, 0.00398288%	14770485, 0.516344%
<i>Adineta vaga</i>	217933776	32135, 0.0147453%	44968, 0.0206338%
<i>Capitella teleta</i>	333283208	9147, 0.00274451%	17739, 0.0053225%
<i>Helobdella robusta</i>	235376169	139023, 0.0590642%	400522, 0.170163%
<i>Crassostrea gigas</i>	557717710	0, 0%	1746428, 0.313138%
<i>Lottia gigantea</i>	359505668	0, 0%	628379, 0.17479%
<i>Aplysia californica</i>	927296314	0, 0%	645572, 0.0696187%
<i>Biomphalaria glabrata</i>	916374414	0, 0%	335123, 0.0365705%
<i>Nematostella vectensis</i>	356613585	0, 0%	186002, 0.0521579%
<i>Hydra vulgaris</i>	852155112	0, 0%	1764624, 0.207078%
<i>Mnemiopsis leidyi</i>	155865547	0, 0%	60221, 0.0386365%
<i>Trichoplax adhaerens</i>	105631681	0, 0%	0, 0%
<i>Amphimedon queenslandica</i>	166679601	0, 0%	7730, 0.00463764%
FUNGI			
<i>Coprinopsis cinerea</i>	36192590	0, 0%	7417, 0.0204931%
<i>Agaricus bisporus</i> var. <i>burnettii</i>	32614392	0, 0%	31084, 0.0953076%
<i>Agaricus bisporus</i> var. <i>bisporus</i>	30233745	0, 0%	28062, 0.0928168%
<i>Laccaria bicolor</i>	64877444	0, 0%	4236, 0.00652923%
<i>Schizophyllum commune</i>	38482026	0, 0%	5965, 0.0155007%
<i>Moniliophthora roreri</i>	52204869	0, 0%	4106, 0.00786517%
<i>Serpula lacrymans</i>	42797233	0, 0%	0, 0%
<i>Coniophora puteana</i>	42968544	0, 0%	15013, 0.0349395%
<i>Heterobasidion irregulare</i>	33649967	0, 0%	10227, 0.0303923%
<i>Stereum hirsutum</i>	46511623	0, 0%	11201, 0.0240822%
<i>Dichomitus squalens</i>	42748430	0, 0%	10461, 0.0244711%
<i>Trametes versicolor</i>	44794008	0, 0%	90802, 0.20271%
<i>Fibroporia radiculosa</i>	28378039	0, 0%	770, 0.00271337%
<i>Phanerochaete carnosae</i>	46293325	0, 0%	18096, 0.0390899%
<i>Postia placenta</i>	90891856	0, 0%	8820, 0.00970384%
<i>Gloeophyllum trabeum</i>	37178225	0, 0%	20507, 0.0551586%
<i>Punctularia strigosozonata</i>	34171901	0, 0%	44534, 0.130323%
<i>Fomitiporia mediterranea</i>	63354419	0, 0%	1142, 0.00180256%
<i>Auricularia subglabra</i>	74920202	0, 0%	195051, 0.260345%

Species	Genome base count	BovB base count, percentage of genome	L1 base count, percentage of genome
<i>Malassezia sympodialis</i>	7669689	0, 0%	3964, 0.051684%
<i>Ustilago maydis</i>	19664356	0, 0%	2996, 0.0152357%
<i>Puccinia graminis</i>	88724376	0, 0%	752, 0.000847569%
<i>Melampsora larici-populina</i>	101129028	0, 0%	10131, 0.0100179%
<i>Rhodotorula toruloides</i>	20223942	0, 0%	2537, 0.0125445%
<i>Dactylellina haptotyla</i>	39531920	0, 0%	1802, 0.00455834%
<i>Tuber melanosporum</i>	124945702	0, 0%	2089, 0.00167193%
<i>Talaromyces atrovirens</i>	30858562	0, 0%	1589, 0.0051493%
<i>Talaromyces stipitatus</i>	35685443	0, 0%	6125, 0.0171639%
<i>Ajellomyces dermatitidis</i>	75404732	0, 0%	24833, 0.0329329%
<i>Histoplasma capsulatum</i>	33030326	0, 0%	1442, 0.00436569%
<i>Arthroderma otae</i>	23263091	0, 0%	318, 0.00136697%
<i>Coccidioides immitis</i>	29016019	0, 0%	3321, 0.0114454%
<i>Paracoccidioides brasiliensis</i>	29952540	0, 0%	1357, 0.0045305%
<i>Uncinocarpus reesii</i>	22349738	0, 0%	1552, 0.00694415%
<i>Endocarpon pusillum</i>	37130611	0, 0%	2963, 0.00797994%
<i>Pseudogymnoascus destructans</i>	30684937	0, 0%	5229, 0.0170409%
<i>Beauveria bassiana</i>	33697794	0, 0%	1795, 0.00532676%
<i>Fusarium oxysporum</i>	61386934	0, 0%	5556, 0.00905079%
<i>Fusarium verticillioides</i>	41844914	0, 0%	1292, 0.00308759%
<i>Colletotrichum gloeosporioides</i>	55607143	0, 0%	1235, 0.00222094%
<i>Colletotrichum higginsianum</i>	50716103	0, 0%	4418, 0.00871124%
<i>Colletotrichum orchidophilum</i>	48556462	0, 0%	2174, 0.00447726%
<i>Thermothelomyces thermophila</i>	38744216	0, 0%	1081, 0.00279009%
<i>Thielavia terrestris</i>	36912256	0, 0%	3957, 0.01072%
<i>Sordaria macrospora</i>	39955017	0, 0%	1025, 0.00256538%
<i>Pseudocercospora fijiensis</i>	74141167	0, 0%	18239, 0.0246004%
<i>Sphaerulina musiva</i>	29352103	0, 0%	1589, 0.00541358%
<i>Zymoseptoria tritici</i>	39686251	0, 0%	7312, 0.0184245%
<i>Parastagonospora nodorum</i>	37213987	0, 0%	3811, 0.0102408%
<i>Leptosphaeria maculans</i>	45124619	0, 0%	20091, 0.0445234%
<i>Metschnikowia bicuspidata</i>	16055203	0, 0%	1926, 0.0119961%
<i>Scheffersomyces stipitis</i>	15441179	0, 0%	70712, 0.457944%
<i>Candida albicans</i>	14282666	0, 0%	10100, 0.0707151%
<i>Candida auris</i>	12498763	0, 0%	2327, 0.0186178%
<i>Candida dubliniensis</i>	14618422	0, 0%	33605, 0.229881%

Species	Genome base count	BovB base count, percentage of genome	L1 base count, percentage of genome
<i>Candida tanzawaensis</i>	13136204	0, 0%	1844, 0.0140375%
<i>Wickerhamomyces anomalus</i>	14145566	0, 0%	5054, 0.0357285%
<i>Wickerhamomyces ciferrii</i>	15901152	0, 0%	13860, 0.0871635%
<i>Yarrowia lipolytica</i>	20550897	0, 0%	84838, 0.412819%
<i>Saitoella complicata</i>	14136186	0, 0%	2291, 0.0162066%
<i>Phycomyces blakesleeanus</i>	53939167	0, 0%	335552, 0.622093%
<i>Rhizopus microsporus</i>	25972395	0, 0%	45192, 0.174%
<i>Lobosporangium transversale</i>	42768949	0, 0%	35232, 0.0823775%
<i>Nosema ceranae</i>	7860219	0, 0%	912, 0.0116027%
VIRIDIPLANTAE			
<i>Chlamydomonas reinhardtii</i>	120185366	0, 0%	606792, 0.50488%
<i>Volvox carteri f. nagariensis</i>	137684403	0, 0%	396743, 0.288154%
<i>Chlorella variabilis</i>	46159512	0, 0%	12154, 0.0263304%
<i>Coccomyxa subellipsoidea C-169</i>	48826616	0, 0%	342720, 0.701912%
<i>Klebsormidium flaccidum</i>	103921766	0, 0%	14535, 0.0139865%
<i>Physcomitrella patens</i>	479985347	0, 0%	209444, 0.0436355%
<i>Selaginella moellendorffii</i>	212315224	0, 0%	432326, 0.203625%
<i>Pinus taeda</i>	265480119	0, 0%	3355235, 1.26384%
<i>Amborella trichopoda</i>	706332640	0, 0%	10079924, 1.42708%
<i>Spirodela polyrhiza</i>	132009443	0, 0%	217054, 0.164423%
<i>Phoenix dactylifera</i>	555607186	0, 0%	4794765, 0.862977%
<i>Elaeis oleifera</i>	1402725009	0, 0%	4644120, 0.331078%
<i>Ensete ventricosum</i>	172241963	0, 0%	45089, 0.0261777%
<i>Musa acuminata subsp. malaccensis</i>	472235617	0, 0%	861006, 0.182326%
<i>Sorghum bicolor</i>	738540932	0, 0%	6065256, 0.821248%
<i>Zea mays</i>	2066912289	0, 0%	9490541, 0.459165%
<i>Setaria italica</i>	405737341	0, 0%	4216652, 1.03926%
<i>Brachypodium distachyon</i>	271923306	0, 0%	4154965, 1.52799%
<i>Leersia perrieri</i>	266687832	0, 0%	2368362, 0.888065%
<i>Oryza barthii</i>	308272304	0, 0%	2043982, 0.663044%
<i>Oryza brachyantha</i>	259907595	0, 0%	570749, 0.219597%
<i>Oryza glumipatula</i>	372860283	0, 0%	1891897, 0.507401%
<i>Oryza longistaminata</i>	326442508	0, 0%	1729078, 0.529673%
<i>Oryza meridionalis</i>	335668232	0, 0%	1621453, 0.483052%
<i>Oryza nivara</i>	337950324	0, 0%	2024556, 0.599069%
<i>Oryza punctata</i>	393816603	0, 0%	1970705, 0.500412%
<i>Oryza sativa Japonica group</i>	382150945	0, 0%	2353016, 0.615729%

Species	Genome base count	BovB base count, percentage of genome	L1 base count, percentage of genome
<i>Zizania latifolia</i>	603989347	0, 0%	2151532, 0.35622%
<i>Aegilops tauschii</i>	3313650219	0, 0%	21648619, 0.653316%
<i>Triticum urartu</i>	3747047519	0, 0%	21997415, 0.58706%
<i>Nelumbo nucifera</i>	804484421	0, 0%	19049323, 2.36789%
<i>Lupinus angustifolius</i>	523297923	0, 0%	3311489, 0.632811%
<i>Phaseolus vulgaris</i>	521076696	0, 0%	5674591, 1.08901%
<i>Cajanus cajan</i>	510809477	0, 0%	1658557, 0.324692%
<i>Vigna angularis</i> var. <i>angularis</i>	291823841	0, 0%	58656, 0.0200998%
<i>Vigna radiata</i> var. <i>radiata</i>	463085359	0, 0%	91202, 0.0196944%
<i>Glycine max</i>	973224514	0, 0%	7291899, 0.749251%
<i>Glycine soja</i>	863568428	0, 0%	5855382, 0.678045%
<i>Cicer arietinum</i>	530768543	0, 0%	864712, 0.162917%
<i>Medicago truncatula</i>	314353944	0, 0%	2757877, 0.877316%
<i>Trifolium pratense</i>	304979311	0, 0%	1723289, 0.565051%
<i>Lotus japonicus</i>	147812252	0, 0%	1521949, 1.02965%
<i>Malus x domestica</i>	526197889	0, 0%	2239129, 0.42553%
<i>Pyrus x bretschneideri</i>	508550595	0, 0%	2367713, 0.465581%
<i>Prunus mume</i>	233872527	0, 0%	1080390, 0.461957%
<i>Prunus persica</i>	227251827	0, 0%	977650, 0.430206%
<i>Fragaria iinumae</i>	199627509	0, 0%	848595, 0.425089%
<i>Fragaria nubicola</i>	203686407	0, 0%	852989, 0.418776%
<i>Fragaria orientalis</i>	214184023	0, 0%	861282, 0.402122%
<i>Fragaria vesca</i> subsp. <i>vesca</i>	214217322	0, 0%	1330049, 0.620888%
<i>Fragaria x ananassa</i>	173229572	0, 0%	576965, 0.333064%
<i>Morus notabilis</i>	320378613	0, 0%	540366, 0.168665%
<i>Cannabis sativa</i>	757438891	0, 0%	7007555, 0.925164%
<i>Castanea mollissima</i>	833240550	0, 0%	7968700, 0.95635%
<i>Betula nana</i>	564011153	0, 0%	4178216, 0.740804%
<i>Cucumis melo</i>	374772472	0, 0%	1244169, 0.33198%
<i>Cucumis sativus</i>	242977439	0, 0%	799120, 0.328887%
<i>Citrullus lanatus</i>	321046825	0, 0%	1165484, 0.363026%
<i>Lagenaria siceraria</i>	176727258	0, 0%	507954, 0.287423%
<i>Populus euphratica</i>	495875768	0, 0%	1763571, 0.355648%
<i>Populus trichocarpa</i>	417129638	0, 0%	1895269, 0.45436%
<i>Jatropha curcas</i>	318363250	0, 0%	1992515, 0.625862%
<i>Manihot esculenta</i> subsp. <i>flabellifolia</i>	390835892	0, 0%	1771302, 0.453209%
<i>Ricinus communis</i>	350458699	0, 0%	664578, 0.189631%
<i>Linum usitatissimum</i>	282201865	0, 0%	2053058, 0.727514%
<i>Eucalyptus camaldulensis</i>	654922307	0, 0%	5906037, 0.901792%
<i>Eucalyptus grandis</i>	691269672	0, 0%	10125615, 1.46479%
<i>Carica papaya</i>	369781828	0, 0%	2516437, 0.680519%

Species	Genome base count	BovB base count, percentage of genome	L1 base count, percentage of genome
<i>Arabidopsis halleri</i> subsp. <i>gemmifera</i>	221139660	0, 0%	2629722, 1.18917%
<i>Arabidopsis lyrata</i> subsp. <i>lyrata</i>	206667935	0, 0%	3211589, 1.55399%
<i>Arabidopsis thaliana</i>	119146348	0, 0%	907867, 0.761976%
<i>Camelina sativa</i>	641356059	0, 0%	13704182, 2.13675%
<i>Capsella rubella</i>	133063876	0, 0%	1196138, 0.89892%
<i>Brassica napus</i>	930121500	0, 0%	19061867, 2.0494%
<i>Brassica rapa</i>	283975909	0, 0%	5186525, 1.8264%
<i>Brassica oleracea</i> var. <i>oleracea</i>	488593889	0, 0%	10794431, 2.20928%
<i>Raphanus raphanistrum</i> subsp. <i>raphanistrum</i>	253833977	0, 0%	3953706, 1.5576%
<i>Raphanus sativus</i>	341476849	0, 0%	6558491, 1.92063%
<i>Aethionema arabicum</i>	192487774	0, 0%	2497220, 1.29734%
<i>Arabis alpina</i>	308032609	0, 0%	6413649, 2.08213%
<i>Eutrema parvulum</i>	137073209	0, 0%	1218003, 0.888578%
<i>Eutrema salsugineum</i>	243110105	0, 0%	3730545, 1.53451%
<i>Sisymbrium irio</i>	245550082	0, 0%	3420058, 1.39281%
<i>Leavenworthia alabamica</i>	173431618	0, 0%	1145977, 0.660766%
<i>Tarenaya hassleriana</i>	249929577	0, 0%	898531, 0.359514%
<i>Gossypium arboreum</i>	1560831891	0, 0%	5673504, 0.363492%
<i>Gossypium raimondii</i>	761405269	0, 0%	6287854, 0.825822%
<i>Theobroma cacao</i>	345993675	0, 0%	2489010, 0.71938%
<i>Aquilaria agallochum</i>	726710453	0, 0%	2696090, 0.370999%
<i>Azadirachta indica</i>	261457759	0, 0%	450277, 0.172218%
<i>Citrus clementina</i>	301364702	0, 0%	2772560, 0.920002%
<i>Citrus sinensis</i>	327669411	0, 0%	2960816, 0.903599%
<i>Vitis vinifera</i>	485326422	0, 0%	10020983, 2.06479%
<i>Amaranthus hypochondriacus</i>	502147592	0, 0%	1858411, 0.370093%
<i>Amaranthus tuberculatus</i>	4347977	0, 0%	47856, 1.10065%
<i>Beta vulgaris</i> subsp. <i>vulgaris</i>	566198563	0, 0%	14816651, 2.61686%
<i>Spinacia oleracea</i>	474077292	0, 0%	4811255, 1.01487%
<i>Dianthus caryophyllus</i>	567661845	0, 0%	3994415, 0.703661%
<i>Actinidia chinensis</i>	604217145	0, 0%	1447675, 0.239595%
<i>Vaccinium macrocarpon</i>	414621889	0, 0%	2174742, 0.524512%
<i>Diospyros lotus</i>	1104189	0, 0%	3332, 0.30176%
<i>Primula veris</i>	309692940	0, 0%	1089758, 0.351883%
<i>Solanum arcanum</i>	665186956	0, 0%	5259355, 0.790658%
<i>Solanum habrochaites</i>	724284658	0, 0%	5928289, 0.818503%
<i>Solanum lycopersicum</i>	781353311	0, 0%	5086040, 0.650927%
<i>Solanum melongena</i>	833080760	0, 0%	5215063, 0.625997%

Species	Genome base count	BovB base count, percentage of genome	L1 base count, percentage of genome
<i>Solanum pennellii</i>	720458090	0, 0%	5173838, 0.718132%
<i>Solanum pimpinellifolium</i>	688247059	0, 0%	5291330, 0.768813%
<i>Solanum tuberosum</i>	705779115	0, 0%	7014366, 0.993847%
<i>Capsicum annuum</i>	3063642317	0, 0%	18450182, 0.60223%
<i>Nicotiana glauca</i>	2221831232	0, 0%	12836977, 0.577766%
<i>Nicotiana glauca</i>	1688312294	0, 0%	9735272, 0.576627%
<i>Fraxinus excelsior</i>	875243685	0, 0%	2738111, 0.31284%
<i>Penstemon centranthifolius</i>	4471593	0, 0%	24561, 0.549267%
<i>Penstemon grinnellii</i>	3663524	0, 0%	14843, 0.405156%
<i>Sesamum indicum</i>	274906174	0, 0%	4526917, 1.64671%
<i>Genlisea aurea</i>	43357795	0, 0%	124160, 0.286361%
<i>Mimulus guttatus</i>	321641293	0, 0%	2116247, 0.657953%
<i>Conyza canadensis</i>	326165195	0, 0%	1471338, 0.451102%

Table S5: BovB HT candidate clusters

Table S5: BLASTALL and VSEARCH were used to find BovB HT candidates. Clusters were kept if they contained L1s from two or more different Eukaryotic Classes and passed the *in silico* validation tests. The clustering was run three times: first, using nucleotide BovB sequences between 2.4-4kb in length; second, using nucleotide open reading frames found within BovBs; and third, using amino acid reverse-transcriptase domains only. See Methods for details.

Family	Number of BovBs from each species	Eukaryotic Classes	Eukaryotic Phyla
Nucleotide BovB sequences			
CROSS-PHYLUM clusters			
c_0	135 Anolis carolinensis, 14504 Bison bison, 1 Bombyx mori, 18932 Bos indicus, 5335 Bos mutus, 20798 Bos taurus, 11603 Bubalus bubalis, 5827 Capra hircus, 2 Centruroides exilicauda, 1 Cimex lectularius, 1 Ciona savignyi, 1 Cynoglossus semilaevis, 1 Helobdella robusta, 1 Latimeria chalumnae, 10 Locusta migratoria, 19 Macropus eugenii, 8 Mesobuthus martensii, 20 Monodelphis domestica, 7 Ophiophagus hannah, 8178 Ovis aries Texel, 6315 Ovis aries musimon, 3026 Pantholops hodgsonii, 308 Pogona vitticeps, 5 Python bivittatus, 36 Sarcophilus harrisii, 21 Vipera berus	Actinopterygii, Arachnida, Ascidiacea, Clitellata, Insecta, Mammalia, Reptilia, Sarcopterygii	Annelida, Arthropoda, Chordata
c_1	197 Chrysochloris asiatica, 86 Echinops telfairi, 478 Elephantulus edwardii, 136 Loxodonta africana, 1 Mesobuthus martensii, 7724 Orycteropus afer, 576 Procavia capensis, 79 Trichechus manatus	Arachnida, Mammalia	Arthropoda, Chordata
c_21	2912 Chrysochloris asiatica, 43 Echinops telfairi, 41 Elephantulus edwardii, 3 Helobdella robusta, 30 Loxodonta africana, 2 Mesobuthus martensii, 40 Orycteropus afer, 65 Procavia capensis, 25 Trichechus manatus	Arachnida, Clitellata, Mammalia	Annelida, Arthropoda, Chordata
c_23	3 Crotalus mitchellii, 1 Danio rerio, 2 Helobdella robusta, 3 Lepisosteus oculatus, 1 Mesobuthus martensii, 4 Ophiophagus hannah, 29 Python bivittatus	Actinopterygii, Arachnida, Clitellata, Reptilia	Annelida, Arthropoda, Chordata
c_33	2 Adineta vaga, 6 Python bivittatus	Bdelloidea, Reptilia	Chordata, Rotifera
c_4	7 Chrysochloris asiatica, 443 Elephantulus edwardii, 1 Mesobuthus martensii, 3 Orycteropus afer	Arachnida, Mammalia	Arthropoda, Chordata
c_41	2 Centruroides exilicauda, 1 Locusta migratoria, 54 Macropus eugenii, 51 Monodelphis domestica, 1 Pogona vitticeps, 96 Sarcophilus harrisii	Arachnida, Insecta, Mammalia, Reptilia	Arthropoda, Chordata
c_46	3 Ciona savignyi, 4 Strongylocentrotus purpuratus	Ascidiacea, Echinoidea	Chordata, Echinodermata
c_53	6 Centruroides exilicauda, 1 Crotalus mitchellii, 2 Ophiophagus hannah	Arachnida, Reptilia	Arthropoda, Chordata
c_55	1 Adineta vaga, 1 Helobdella robusta	Bdelloidea, Clitellata	Annelida, Rotifera

Family	Number of BovBs from each species	Eukaryotic Classes	Eukaryotic Phyla
c_7	61 Anolis carolinensis, 1593 Bison bison, 1151 Bos indicus, 1301 Bos mutus, 1192 Bos taurus, 1488 Bubalus bubalis, 1117 Capra hircus, 2 Locusta migratoria, 1 Macropus eugenii, 1021 Ovis aries Texel, 1040 Ovis aries musimon, 800 Pantholops hodgsonii, 100 Pogona vitticeps, 1 Sarcophilus harrisii, 11 Vipera berus	Insecta, Mammalia, Reptilia	Arthropoda, Chordata

CROSS-CLASS clusters

c_106	36 Bison bison, 8 Bos indicus, 28 Bos mutus, 15 Bos taurus, 44 Bubalus bubalis, 18 Capra hircus, 19 Ovis aries Texel, 14 Ovis aries musimon, 20 Pantholops hodgsonii, 2 Pogona vitticeps	Mammalia, Reptilia	Chordata
c_14	5 Anolis carolinensis, 1425 Bison bison, 1373 Bos indicus, 1566 Bos mutus, 1553 Bos taurus, 1519 Bubalus bubalis, 1390 Capra hircus, 11 Ophiophagus hannah, 1440 Ovis aries Texel, 1343 Ovis aries musimon, 1319 Pantholops hodgsonii, 398 Pogona vitticeps, 1 Sarcophilus harrisii, 53 Vipera berus	Mammalia, Reptilia	Chordata
c_15	22 Ceratotherium simum, 22 Equus caballus Mongolian, 22 Equus caballus Thoroughbred, 24 Equus przewalskii, 1 Megaderma lyra, 4 Pogona vitticeps, 2 Rhinolophus ferrumequinum	Mammalia, Reptilia	Chordata
c_19	1332 Bison bison, 1321 Bos indicus, 700 Bos mutus, 1371 Bos taurus, 1285 Bubalus bubalis, 830 Capra hircus, 810 Ovis aries Texel, 603 Ovis aries musimon, 272 Pantholops hodgsonii, 1 Vipera berus	Mammalia, Reptilia	Chordata
c_2	2 Anolis carolinensis, 2674 Bison bison, 2088 Bos indicus, 1778 Bos mutus, 2061 Bos taurus, 2380 Bubalus bubalis, 1424 Capra hircus, 4 Macropus eugenii, 1 Monodelphis domestica, 10 Ophiophagus hannah, 1250 Ovis aries Texel, 1573 Ovis aries musimon, 1194 Pantholops hodgsonii, 154 Pogona vitticeps, 1 Sarcophilus harrisii, 6 Vipera berus	Mammalia, Reptilia	Chordata
c_49	6 Diaphorina citri, 1 Mesobuthus martensii, 1 Nilaparvata lugens	Arachnida, Insecta	Arthropoda
c_5	354 Bison bison, 78 Bos indicus, 287 Bos mutus, 65 Bos taurus, 343 Bubalus bubalis, 143 Capra hircus, 80 Ovis aries Texel, 265 Ovis aries musimon, 134 Pantholops hodgsonii, 1 Pogona vitticeps	Mammalia, Reptilia	Chordata
c_80	1 Centruroides exilicauda, 1 Mesobuthus martensii, 2 Nilaparvata lugens	Arachnida, Insecta	Arthropoda

Nucleotide ORFs

CROSS-PHYLUM clusters

Family	Number of BovBs from each species	Eukaryotic Classes	Eukaryotic Phyla
o_0	11 Adineta vaga, 245 Anolis carolinensis, 59268 Bos indicus, 15219 Bos mutus, 63518 Bos taurus, 29581 Bubalus bubalis, 8688 Capra hircus, 6 Centruroides exilicauda, 1 Chrysochloris asiatica, 5 Cimex lectularius, 2 Helobdella robusta, 1 Lepisosteus oculatus, 53 Locusta migratoria, 1 Loxodonta africana, 8 Macropus eugenii, 6 Mesobuthus martensii, 3 Monodelphis domestica, 17 Ophiophagus hannah, 24910 Ovis aries Texel, 15373 Ovis aries musimon, 7554 Pantholops hodgsonii, 1177 Pogona vitticeps, 2 Procavia capensis, 34 Python bivittatus, 1 Sarcophilus harrisii, 1 Trichechus manatus, 424 Vipera berus	Actinopterygii, Arachnida, Bdelloidea, Clitellata, Insecta, Mammalia, Reptilia	Annelida, Arthropoda, Chordata, Rotifera
o_106	2 Centruroides exilicauda, 5 Lethenteron camtschaticum	Arachnida, Hyperoartia	Arthropoda, Chordata
o_120	1 Bison bison, 2 Bos indicus, 2 Bos taurus, 1 Bubalus bubalis, 2 Capra hircus, 5 Cimex lectularius, 2 Locusta migratoria, 6 Ophiophagus hannah, 1 Ovis aries Texel, 2 Pantholops hodgsonii, 3825 Pogona vitticeps, 257 Vipera berus	Insecta, Mammalia, Reptilia	Arthropoda, Chordata
o_122	1 Anolis carolinensis, 275 Bison bison, 260 Bos indicus, 282 Bos mutus, 251 Bos taurus, 297 Bubalus bubalis, 239 Capra hircus, 2 Cimex lectularius, 9 Ophiophagus hannah, 223 Ovis aries Texel, 246 Ovis aries musimon, 214 Pantholops hodgsonii, 1 Python bivittatus, 61 Vipera berus	Insecta, Mammalia, Reptilia	Arthropoda, Chordata
o_16	4 Ephemera danica, 1 Myotis brandtii	Insecta, Mammalia	Arthropoda, Chordata
o_326	1 Bos indicus, 1 Cimex lectularius, 18 Ophiophagus hannah, 2 Pogona vitticeps, 1 Python bivittatus, 348 Vipera berus	Insecta, Mammalia, Reptilia	Arthropoda, Chordata
o_33	4 Danio rerio, 13 Helobdella robusta, 1 Lepisosteus oculatus, 16 Mesobuthus martensii	Actinopterygii, Arachnida, Clitellata	Annelida, Arthropoda, Chordata
o_38	6 Anolis carolinensis, 2 Bos indicus, 2 Bos mutus, 3 Bos taurus, 2 Capra hircus, 3 Locusta migratoria, 2 Ophiophagus hannah, 5 Pantholops hodgsonii, 3305 Pogona vitticeps, 6 Python bivittatus, 14 Vipera berus	Insecta, Mammalia, Reptilia	Arthropoda, Chordata
o_43	198 Chrysochloris asiatica, 18 Echinops telfairi, 71 Elephantulus edwardii, 399 Loxodonta africana, 1 Mesobuthus martensii, 1981 Orycteropus afer, 129 Procavia capensis, 410 Trichechus manatus	Arachnida, Mammalia	Arthropoda, Chordata
o_47	1 Bison bison, 1 Capra hircus, 10 Cimex lectularius, 1 Crotalus mitchellii, 49 Ophiophagus hannah, 1 Ovis aries musimon, 1 Pantholops hodgsonii, 24 Pogona vitticeps, 8 Python bivittatus, 813 Vipera berus	Insecta, Mammalia, Reptilia	Arthropoda, Chordata
o_609	1 Lepisosteus oculatus, 4 Mesobuthus martensii	Actinopterygii, Arachnida	Arthropoda, Chordata

Family	Number of BovBs from each species	Eukaryotic Classes	Eukaryotic Phyla
o_95	2 Anolis carolinensis, 2944 Bison bison, 1982 Bos indicus, 974 Bos mutus, 2002 Bos taurus, 1685 Bubalus bubalis, 883 Capra hircus, 1 Cimex lectularius, 1 Monodelphis domestica, 1 Ophiophagus hannah, 1535 Ovis aries Texel, 1150 Ovis aries musimon, 623 Pantholops hodgsonii, 1 Pogona vitticeps, 8 Vipera berus	Insecta, Mammalia, Reptilia	Arthropoda, Chordata

CROSS-CLASS clusters

o_112	72 Bison bison, 52 Bos indicus, 56 Bos mutus, 52 Bos taurus, 51 Bubalus bubalis, 63 Capra hircus, 2 Macropus eugenii, 69 Ovis aries Texel, 54 Ovis aries musimon, 49 Pantholops hodgsonii, 1 Pogona vitticeps	Mammalia, Reptilia	Chordata
o_118	81 Bison bison, 32 Bos indicus, 19 Bos mutus, 29 Bos taurus, 63 Bubalus bubalis, 19 Capra hircus, 12 Ovis aries Texel, 9 Ovis aries musimon, 11 Pantholops hodgsonii, 1 Python bivittatus	Mammalia, Reptilia	Chordata
o_123	151 Bison bison, 61 Bos indicus, 37 Bos mutus, 61 Bos taurus, 124 Bubalus bubalis, 27 Capra hircus, 28 Ovis aries Texel, 12 Ovis aries musimon, 16 Pantholops hodgsonii, 2 Python bivittatus	Mammalia, Reptilia	Chordata
o_132	1298 Bison bison, 1319 Bos indicus, 860 Bos mutus, 1325 Bos taurus, 1233 Bubalus bubalis, 673 Capra hircus, 3 Ophiophagus hannah, 800 Ovis aries Texel, 762 Ovis aries musimon, 465 Pantholops hodgsonii, 40 Vipera berus	Mammalia, Reptilia	Chordata
o_134	20 Bison bison, 6 Bos indicus, 24 Bos mutus, 13 Bos taurus, 27 Bubalus bubalis, 18 Capra hircus, 12 Ovis aries Texel, 9 Ovis aries musimon, 14 Pantholops hodgsonii, 1 Pogona vitticeps	Mammalia, Reptilia	Chordata
o_139	38 Bison bison, 4 Bos indicus, 20 Bos mutus, 7 Bos taurus, 33 Bubalus bubalis, 26 Capra hircus, 15 Ovis aries Texel, 3 Ovis aries musimon, 14 Pantholops hodgsonii, 1 Pogona vitticeps, 1 Vipera berus	Mammalia, Reptilia	Chordata
o_142	6 Bison bison, 4 Bos mutus, 9 Bubalus bubalis, 5 Capra hircus, 2 Ovis aries Texel, 1 Ovis aries musimon, 6 Pantholops hodgsonii, 1 Python bivittatus	Mammalia, Reptilia	Chordata
o_146	11 Bison bison, 1 Bos indicus, 7 Bos mutus, 1 Bos taurus, 13 Bubalus bubalis, 3 Capra hircus, 3 Ovis aries Texel, 7 Pantholops hodgsonii, 1 Python bivittatus	Mammalia, Reptilia	Chordata
o_156	2 Lethenteron camtschaticum, 1 Oreochromis niloticus	Actinopterygii, Hyperoartia	Chordata
o_168	10 Bison bison, 1 Bos indicus, 3 Bos mutus, 1 Bos taurus, 8 Bubalus bubalis, 5 Capra hircus, 4 Pantholops hodgsonii, 1 Python bivittatus	Mammalia, Reptilia	Chordata

Family	Number of BovBs from each species	Eukaryotic Classes	Eukaryotic Phyla
o_194	130 Bison bison, 100 Bos indicus, 108 Bos mutus, 94 Bos taurus, 122 Bubalus bubalis, 85 Capra hircus, 1 Ophiophagus hannah, 75 Ovis aries Texel, 88 Ovis aries musimon, 91 Pantholops hodgsonii, 7 Vipera berus	Mammalia, Reptilia	Chordata
o_201	316 Bison bison, 250 Bos indicus, 69 Bos mutus, 267 Bos taurus, 206 Bubalus bubalis, 48 Capra hircus, 104 Ovis aries Texel, 94 Ovis aries musimon, 32 Pantholops hodgsonii, 1 Python bivittatus	Mammalia, Reptilia	Chordata
o_226	12 Bison bison, 2 Bos indicus, 3 Bos mutus, 3 Bos taurus, 15 Bubalus bubalis, 6 Capra hircus, 3 Ovis aries Texel, 1 Ovis aries musimon, 9 Pantholops hodgsonii, 1 Pogona vitticeps	Mammalia, Reptilia	Chordata
o_258	40 Bison bison, 26 Bos indicus, 10 Bos mutus, 25 Bos taurus, 31 Bubalus bubalis, 5 Capra hircus, 10 Ovis aries Texel, 19 Ovis aries musimon, 7 Pantholops hodgsonii, 1 Vipera berus	Mammalia, Reptilia	Chordata
o_293	2 Macropus eugenii, 1 Ophiophagus hannah, 81 Pogona vitticeps, 1 Vipera berus	Mammalia, Reptilia	Chordata
o_316	1 Bubalus bubalis, 354 Pogona vitticeps, 1 Vipera berus	Mammalia, Reptilia	Chordata
o_397	8 Ceratotherium simum, 6 Equus caballus Mongolian, 4 Equus caballus Thoroughbred, 5 Equus przewalskii, 1 Megaderma lyra, 1 Myotis davidii, 2 Pogona vitticeps, 2 Rhinolophus ferrumequinum	Mammalia, Reptilia	Chordata
o_492	2 Anolis carolinensis, 1 Bos mutus, 3 Bubalus bubalis, 1 Capra hircus, 1 Ovis aries Texel, 1 Pantholops hodgsonii, 89 Pogona vitticeps, 3 Python bivittatus, 3 Vipera berus	Mammalia, Reptilia	Chordata
o_570	1 Bos taurus, 2 Bubalus bubalis, 2 Pantholops hodgsonii, 1 Python bivittatus	Mammalia, Reptilia	Chordata
o_576	4 Bison bison, 3 Bos indicus, 2 Bos mutus, 3 Bos taurus, 6 Bubalus bubalis, 2 Capra hircus, 4 Ovis aries Texel, 4 Ovis aries musimon, 1 Pantholops hodgsonii, 1 Vipera berus	Mammalia, Reptilia	Chordata
o_74	46 Bison bison, 4 Bos indicus, 5 Bos mutus, 3 Bos taurus, 34 Bubalus bubalis, 22 Capra hircus, 17 Ovis aries Texel, 3 Ovis aries musimon, 12 Pantholops hodgsonii, 1 Vipera berus	Mammalia, Reptilia	Chordata
o_804	6 Capra hircus, 4 Ovis aries Texel, 2 Ovis aries musimon, 4 Pantholops hodgsonii, 1 Python bivittatus	Mammalia, Reptilia	Chordata
o_83	883 Bison bison, 1133 Bos indicus, 478 Bos mutus, 1207 Bos taurus, 643 Bubalus bubalis, 255 Capra hircus, 517 Ovis aries Texel, 477 Ovis aries musimon, 246 Pantholops hodgsonii, 2 Pogona vitticeps	Mammalia, Reptilia	Chordata

Family	Number of BovBs from each species	Eukaryotic Classes	Eukaryotic Phyla
o_99	662 Bison bison, 632 Bos indicus, 204 Bos mutus, 680 Bos taurus, 547 Bubalus bubalis, 151 Capra hircus, 297 Ovis aries Texel, 230 Ovis aries musimon, 143 Pantholops hodgsonii, 1 Python bivittatus	Mammalia, Reptilia	Chordata

Amino acid RT domains

CROSS-PHYLUM clusters

r_0	1 Adineta vaga, 29 Chrysochloris asiatica, 365 Elephantulus edwardii, 99 Loxodonta africana, 3 Mesobuthus martensii, 1 Ornithorhynchus anatinus, 163 Orycteropus afer, 6 Procavia capensis, 81 Trichechus manatus	Arachnida, Bdelloidea, Mammalia	Arthropoda, Chordata, Rotifera
r_10	359 Anolis carolinensis, 2 Bos indicus, 1 Bos mutus, 6 Bos taurus, 1 Bubalus bubalis, 1 Capra hircus, 1 Lepisosteus oculatus, 1 Locusta migratoria, 3 Ovis aries Texel, 3 Ovis aries musimon, 3 Pantholops hodgsonii, 8 Pogona vitticeps, 3 Vipera berus	Actinopterygii, Insecta, Mammalia, Reptilia	Arthropoda, Chordata
r_12	1 Centruroides exilicauda, 3 Helobdella robusta, 14 Mesobuthus martensii	Arachnida, Clitellata	Annelida, Arthropoda
r_2	5919 Bison bison, 13181 Bos indicus, 1463 Bos mutus, 14379 Bos taurus, 3150 Bubalus bubalis, 336 Capra hircus, 1 Cimex lectularius, 2 Ophiophagus hannah, 6467 Ovis aries Texel, 2092 Ovis aries musimon, 1437 Pantholops hodgsonii, 38 Pogona vitticeps, 31 Vipera berus	Insecta, Mammalia, Reptilia	Arthropoda, Chordata
r_80	330 Bison bison, 498 Bos indicus, 54 Bos mutus, 525 Bos taurus, 177 Bubalus bubalis, 26 Capra hircus, 3 Cimex lectularius, 5 Ophiophagus hannah, 97 Ovis aries Texel, 69 Ovis aries musimon, 18 Pantholops hodgsonii, 682 Pogona vitticeps, 221 Vipera berus	Insecta, Mammalia, Reptilia	Arthropoda, Chordata

CROSS-CLASS clusters

r_141	1 Lepisosteus oculatus, 1 Pogona vitticeps	Actinopterygii, Reptilia	Chordata
r_153	1 Macropus eugenii, 1 Ophiophagus hannah, 3 Pogona vitticeps, 2 Vipera berus	Mammalia, Reptilia	Chordata
r_161	1 Bison bison, 2 Bos indicus, 1 Capra hircus, 1 Ovis aries Texel, 1 Vipera berus	Mammalia, Reptilia	Chordata
r_21	296 Bison bison, 518 Bos indicus, 65 Bos mutus, 509 Bos taurus, 144 Bubalus bubalis, 14 Capra hircus, 277 Ovis aries Texel, 102 Ovis aries musimon, 90 Pantholops hodgsonii, 1 Vipera berus	Mammalia, Reptilia	Chordata
r_25	22 Bison bison, 29 Bos indicus, 16 Bos mutus, 19 Bos taurus, 21 Bubalus bubalis, 6 Capra hircus, 16 Ovis aries Texel, 16 Ovis aries musimon, 4 Pantholops hodgsonii, 2 Pogona vitticeps	Mammalia, Reptilia	Chordata

Family	Number of BovBs from each species	Eukaryotic Classes	Eukaryotic Phyla
r_36	1 Bison bison, 1 Bos mutus, 3 Bos taurus, 1 Capra hircus, 1 Ovis aries Texel, 2 Ovis aries musimon, 1 Pantholops hodgsonii, 159 Pogona vitticeps, 1 Python bivittatus, 14 Vipera berus	Mammalia, Reptilia	Chordata
r_58	44 Bison bison, 39 Bos indicus, 14 Bos mutus, 40 Bos taurus, 17 Bubalus bubalis, 13 Capra hircus, 22 Ovis aries Texel, 28 Ovis aries musimon, 5 Pantholops hodgsonii, 1 Vipera berus	Mammalia, Reptilia	Chordata

Table S6: L1 HT candidate clusters

Table S6: The same method was used to perform all-against-all clustering of L1 elements and find discordant groupings. Clusters were kept if they contained L1s from two or more different Eukaryotic Classes and passed the *in silico* validation tests. The clustering was run three times: first, using nucleotide L1 sequences between 3-9kb in length; second, using nucleotide open reading frames found within the L1s; and third, using amino acid reverse-transcriptase domains only. Some clusters looked interesting but were dismissed either because the L1s were located on short scaffolds (marked as likely contamination), or because the ORFs did not contain any known functional domains (marked as likely artifacts).

Family	Number of L1s from each species	Eukaryotic Classes	Eukaryotic Phyla
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Nucleotide L1 sequences

CROSS-PHYLUM clusters

c_220	52 <i>Crassostrea gigas</i> , 2 <i>Lottia gigantea</i> , 1 <i>Saccoglossus kowalevskii</i> , 14 <i>Strongylocentrotus purpuratus</i>	Bivalvia, Gastropoda, Enteropneusta, Echinoidea	Mollusca, Hemichordata, Echinodermata
c_25	2 <i>Anguilla anguilla</i> , 8 <i>Crassostrea gigas</i> , 129 <i>Danio rerio</i>	Actinopterygii, Bivalvia	Chordata, Mollusca

CROSS-CLASS clusters

c_26	6 <i>Alligator mississippiensis</i> , 3 <i>Alligator sinensis</i> , 11 <i>Apalone spinifera</i> , 7 <i>Carcharhinus brachyurus</i> , 159 <i>Chelonia mydas</i> , 184 <i>Chrysemys picta</i> , 3 <i>Crocodylus porosus</i> , 3 <i>Gavialis gangeticus</i> , 8 <i>Latimeria chalumnae</i> , 2 <i>Lethenteron camtschaticum</i> , 49 <i>Pelodiscus sinensis</i> , 1 <i>Petromyzon marinus</i>	Sauropsida, Chondrichthyes, Sarcopterygii, Hyperoartia	Chordata
c_41	40 <i>Latimeria chalumnae</i> , 1 <i>Oryzias latipes</i>	Sarcopterygii, Actinopterygii	Chordata
c_65	105 <i>Anolis carolinensis</i> , 11 <i>Ophiophagus hannah</i> , 9 <i>Pogona vitticeps</i> , 4 <i>Vipera berus</i> , 2 <i>Xenopus laevis</i>	Sauropsida, Amphibia	Chordata

Interesting but likely contamination (short scaffolds)

c_14096	1 <i>Drosophila ficusphila</i> , 1 <i>Lytechinus variegatus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
c_162	1 <i>Protopolystoma xenopodis</i> , 41 <i>Xenopus laevis</i> , 35 <i>Xenopus tropicalis</i>	Amphibia, Monogenea	Chordata, Platyhelminthes
c_2488	1 <i>Drosophila ficusphila</i> , 2 <i>Lytechinus variegatus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
c_257	1 <i>Cricetulus griseus</i> , 16514 <i>Mus musculus</i> , 18274 <i>Rattus norvegicus</i> , 1 <i>Schistosoma japonicum</i>	Mammalia, Trematoda	Chordata, Platyhelminthes
c_5994	1 <i>Drosophila ficusphila</i> , 1 <i>Lytechinus variegatus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
c_8560	1 <i>Drosophila ficusphila</i> , 5 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata

Nucleotide ORFs

CROSS-PHYLUM clusters

Family	Number of L1s from each species	Eukaryotic Classes	Eukaryotic Phyla
o_374	99 <i>Crassostrea gigas</i> , 1 <i>Lottia gigantea</i> , 2 <i>Priapulus caudatus</i>	Bivalvia, Gastropoda, Priapulimorpha	Mollusca, Priapulida
o_666	26 <i>Crassostrea gigas</i> , 1 <i>Priapulus caudatus</i>	Bivalvia, Priapulimorpha	Mollusca, Priapulida

CROSS-CLASS clusters

o_295	69 <i>Alligator mississippiensis</i> , 97 <i>Alligator sinensis</i> , 168 <i>Apalone spinifera</i> , 1098 <i>Chelonia mydas</i> , 1210 <i>Chrysemys picta</i> , 50 <i>Crocodylus porosus</i> , 70 <i>Gavialis gangeticus</i> , 17 <i>Latimeria chalumnae</i> , 338 <i>Pelodiscus sinensis</i>	Sauropsida, Sarcopterygii	Chordata
o_353	125 <i>Crassostrea gigas</i> , 2 <i>Lottia gigantea</i>	Bivalvia, Gastropoda	Mollusca
o_520	2 <i>Lytechinus variegatus</i> , 3 <i>Patiria miniata</i> , 7 <i>Strongylocentrotus purpuratus</i>	Echinoidea, Asteroidea	Echinodermata
o_559	1 <i>Lytechinus variegatus</i> , 2 <i>Patiria miniata</i>	Echinoidea, Asteroidea	Echinodermata
o_757	10 <i>Crassostrea gigas</i> , 1 <i>Lottia gigantea</i>	Bivalvia, Gastropoda	Mollusca

Interesting but likely artifacts (no functional domains)

o_13226	1 <i>Anopheles minimus</i> , 1 <i>Blattella germanica</i> , 2 <i>Caenorhabditis elegans</i>	Insecta, Chromadorea	Arthropoda, Nematoda
o_13299	3 <i>Anopheles arabiensis</i> , 1 <i>Anopheles merus</i> , 1 <i>Anopheles quadriannulatus</i> , 1 <i>Caenorhabditis</i> 11	Insecta, Chromadorea	Arthropoda, Nematoda
o_15486	1 <i>Anopheles albimanus</i> , 1 <i>Anopheles atroparvus</i> , 2 <i>Anopheles darlingi</i> , 1 <i>Anopheles funestus</i> , 1 <i>Anopheles sinensis</i> , 1 <i>Haemonchus contortus</i>	Insecta, Chromadorea	Arthropoda, Nematoda
o_18254	1 <i>Aedes aegypti</i> , 1 <i>Anopheles albimanus</i> , 1 <i>Caenorhabditis brenneri</i> , 1 <i>Caenorhabditis japonica</i> , 1 <i>Drosophila takahashii</i> , 1 <i>Drosophila virilis</i> , 1 <i>Manduca sexta</i> , 1 <i>Mesobuthus martensii</i> , 1 <i>Steinernema monticolum</i> , 1 <i>Trichogramma pretiosum</i>	Insecta, Chromadorea, Arachnida	Arthropoda, Nematoda
o_21039	1 <i>Caenorhabditis elegans</i> , 2 <i>Centruroides exilicauda</i>	Chromadorea, Arachnida	Arthropoda, Nematoda
o_22604	2 <i>Anopheles culicifacies</i> , 2 <i>Anopheles dirus</i> , 1 <i>Anopheles farauti</i> , 1 <i>Anopheles sinensis</i> , 3 <i>Caenorhabditis</i> 11, 1 <i>Caenorhabditis angaria</i> , 1 <i>Caenorhabditis brenneri</i> , 1 <i>Daphnia pulex</i> , 1 <i>Drosophila bipectinata</i> , 1 <i>Drosophila grimshawi</i> , 1 <i>Drosophila rhopalosa</i> , 1 <i>Melitaea cinxia</i>	Insecta, Chromadorea, Branchiopoda	Arthropoda, Nematoda
o_27328	1 <i>Anopheles arabiensis</i> , 1 <i>Anopheles farauti</i> , 1 <i>Caenorhabditis elegans</i> , 1 <i>Cephus cinctus</i>	Insecta, Chromadorea	Arthropoda, Nematoda
o_4989	3 <i>Drosophila biarmipes</i> , 1 <i>Necator americanus</i> , 1 <i>Strigamia maritima</i>	Insecta, Chromadorea, Chilopoda	Arthropoda, Nematoda

Family	Number of L1s from each species	Eukaryotic Classes	Eukaryotic Phyla
o_18911	1 Anopheles arabiensis, 1 Anopheles epiroticus, 1 Anopheles gambiae, 1 Anopheles melas, 1 Anopheles merus, 1 Anopheles quadriannulatus, 1 Mesobuthus martensii	Insecta, Arachnida	Arthropoda

Interesting but likely contamination (short scaffolds)

o_294	1 Alligator mississippiensis, 6 Latimeria chalumnae, 1 Lethenteron camtschaticum, 2 Protopolystoma xenopodis, 130 Xenopus laevis, 59 Xenopus tropicalis	Sauropsida, Sarcopterygii, Hyperoartia, Amphibia, Monogenea	Chordata, Platy- helminthes
o_1103	2 Drosophila ficusphila, 1 Lytechinus variegatus, 3 Strongylocentrotus purpuratus	Insecta, Echinoidea	Arthropoda, Echinodermata
o_11511	1 Drosophila ficusphila, 6 Lytechinus variegatus	Insecta, Echinoidea	Arthropoda, Echinodermata
o_11634	1 Drosophila ficusphila, 1 Lytechinus variegatus	Insecta, Echinoidea	Arthropoda, Echinodermata
o_12034	1 Drosophila ficusphila, 3 Lytechinus variegatus	Insecta, Echinoidea	Arthropoda, Echinodermata
o_12376	1 Drosophila ficusphila, 2 Lytechinus variegatus	Insecta, Echinoidea	Arthropoda, Echinodermata
o_12900	1 Protopolystoma xenopodis, 1 Xenopus laevis	Amphibia, Monogenea	Chordata, Platy- helminthes
o_13327	1 Fusarium oxysporum, 1 Pteronotus parnellii	Sordari- omycetes, Mammalia	Ascomycota, Chordata
o_15461	1 Drosophila ficusphila, 3 Lytechinus variegatus, 8 Strongylocentrotus purpuratus	Insecta, Echinoidea	Arthropoda, Echinodermata
o_1822	2 Drosophila ficusphila, 1 Lytechinus variegatus, 25 Strongylocentrotus purpuratus	Insecta, Echinoidea	Arthropoda, Echinodermata
o_1886	1 Drosophila ficusphila, 6 Lytechinus variegatus, 3 Strongylocentrotus purpuratus	Insecta, Echinoidea	Arthropoda, Echinodermata
o_19358	1 Drosophila ficusphila, 3 Lytechinus variegatus	Insecta, Echinoidea	Arthropoda, Echinodermata
o_19697	1 Protopolystoma xenopodis, 6 Xenopus laevis	Amphibia, Monogenea	Chordata, Platy- helminthes
o_20044	1 Drosophila ficusphila, 3 Lytechinus variegatus	Insecta, Echinoidea	Arthropoda, Echinodermata
o_2101	2 Drosophila ficusphila, 2 Lytechinus variegatus, 12 Strongylocentrotus purpuratus	Insecta, Echinoidea	Arthropoda, Echinodermata
o_2734	2 Protopolystoma xenopodis, 80 Xenopus laevis, 34 Xenopus tropicalis	Amphibia, Monogenea	Chordata, Platy- helminthes
o_29	1 Protopolystoma xenopodis, 69 Xenopus laevis, 121 Xenopus tropicalis	Amphibia, Monogenea	Chordata, Platy- helminthes

Family	Number of L1s from each species	Eukaryotic Classes	Eukaryotic Phyla
o_3056	2 <i>Drosophila ficusphila</i> , 2 <i>Lytechinus variegatus</i> , 25 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
o_423	2 <i>Protopolystoma xenopodis</i> , 14 <i>Xenopus laevis</i> , 64 <i>Xenopus tropicalis</i>	Amphibia, Monogenea	Chordata, Platy- helminthes
o_488	1 <i>Drosophila ficusphila</i> , 5 <i>Lytechinus variegatus</i> , 35 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
o_504	7 <i>Drosophila ficusphila</i> , 8 <i>Lytechinus variegatus</i> , 69 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
o_575	5 <i>Protopolystoma xenopodis</i> , 36 <i>Xenopus laevis</i> , 1 <i>Xenopus tropicalis</i>	Amphibia, Monogenea	Chordata, Platy- helminthes
o_651	1 <i>Drosophila ficusphila</i> , 10 <i>Lytechinus variegatus</i> , 13 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
o_691	2 <i>Drosophila ficusphila</i> , 8 <i>Lytechinus variegatus</i> , 57 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
o_7039	2 <i>Fusarium oxysporum</i> , 1 <i>Pteronotus parnellii</i>	Sordari- omycetes, Mammalia	Ascomycota, Chordata

Amino acid RT domains

CROSS-PHYLUM clusters

r_1348	3 <i>Branchiostoma floridae</i> , 2 <i>Mnemiopsis leidyi</i>	Cephalochor- data, Tentaculata	Chordata, Ctenophora
r_2916	1 <i>Branchiostoma floridae</i> , 4 <i>Saccoglossus kowalevskii</i>	Cephalochor- data, Enteropneusta	Chordata, Hemichordata

CROSS-CLASS clusters

r_1111	1 <i>Fraxinus excelsior</i> , 4 <i>Phoenix dactylifera</i>	Mesangiosper- mae, Liliopsida	Streptophyta
r_1410	4 <i>Carcharhinus brachyurus</i> , 1 <i>Latimeria chalumnae</i>	Chon- drichthyes, Sarcopterygii	Chordata
r_609	2 <i>Lytechinus variegatus</i> , 3 <i>Patiria miniata</i> , 3 <i>Strongylocentrotus purpuratus</i>	Echinoidea, Asteroidea	Echinodermata
r_67	10 <i>Alligator mississippiensis</i> , 14 <i>Alligator sinensis</i> , 9 <i>Apalone spinifera</i> , 60 <i>Chelonia mydas</i> , 141 <i>Chrysemys picta</i> , 4 <i>Crocodylus porosus</i> , 10 <i>Gavialis gangeticus</i> , 3 <i>Latimeria chalumnae</i> , 17 <i>Pelodiscus sinensis</i> , 1 <i>Xenopus tropicalis</i>	Sauropsida, Sarcopterygii, Amphibia	Chordata

Interesting but likely contamination (short scaffolds)

r_1013	1 <i>Drosophila ficusphila</i> , 2 <i>Lytechinus variegatus</i> , 4 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
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Family	Number of L1s from each species	Eukaryotic Classes	Eukaryotic Phyla
r_1179	2 <i>Protopolystoma xenopodis</i> , 11 <i>Xenopus laevis</i> , 20 <i>Xenopus tropicalis</i>	Amphibia, Monogenea	Chordata, Platyhelminthes
r_1417	4 <i>Drosophila ficusphila</i> , 32 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
r_1779	1 <i>Drosophila ficusphila</i> , 1 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
r_1979	1 <i>Colletotrichum higginsianum</i> , 1 <i>Colletotrichum orchidophilum</i> , 1 <i>Fusarium oxysporum</i> , 1 <i>Parastagonospora nodorum</i> , 1 <i>Pteronotus parnellii</i>	Sordariomycetes, Dothideomycetes, Mammalia	Ascomycota, Chordata
r_2368	1 <i>Drosophila ficusphila</i> , 2 <i>Lytechinus variegatus</i> , 1 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
r_3622	1 <i>Drosophila ficusphila</i> , 1 <i>Lytechinus variegatus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
r_3890	1 <i>Fusarium oxysporum</i> , 1 <i>Pteronotus parnellii</i>	Sordariomycetes, Mammalia	Ascomycota, Chordata
r_4047	1 <i>Drosophila ficusphila</i> , 1 <i>Lytechinus variegatus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
r_430	1 <i>Drosophila ficusphila</i> , 3 <i>Lytechinus variegatus</i> , 11 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
r_4915	1 <i>Drosophila ficusphila</i> , 1 <i>Lytechinus variegatus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
r_498	1 <i>Protopolystoma xenopodis</i> , 1 <i>Xenopus laevis</i> , 23 <i>Xenopus tropicalis</i>	Amphibia, Monogenea	Chordata, Platyhelminthes
r_500	2 <i>Protopolystoma xenopodis</i> , 8 <i>Xenopus laevis</i> , 2 <i>Xenopus tropicalis</i>	Amphibia, Monogenea	Chordata, Platyhelminthes
r_58	46 <i>Cricetulus griseus</i> , 35 <i>Mesocricetus auratus</i> , 9 <i>Microtus ochrogaster</i> , 11274 <i>Mus musculus</i> , 1 <i>Pan troglodytes</i> , 16 <i>Peromyscus maniculatus</i> , 6522 <i>Rattus norvegicus</i> , 1 <i>Schistosoma mansoni</i> , 1 <i>Schistosoma rodhaini</i> , 2 <i>Tetraodon nigroviridis</i>	Mammalia, Trematoda, Actinopterygii	Chordata, Platyhelminthes
r_681	1 <i>Drosophila ficusphila</i> , 17 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata
r_917	1 <i>Drosophila ficusphila</i> , 1 <i>Lytechinus variegatus</i> , 13 <i>Strongylocentrotus purpuratus</i>	Insecta, Echinoidea	Arthropoda, Echinodermata