

Supplementary Table 1: Genome sources for species in Figure 5

LatinName	CommonName	Version	AnnotationFile	Source	Publication
<i>Drosophila melanogaster</i>	Fruit Fly	5.57	dmel-all-r5.57.gff	flybase.org	(Adams et al. 2000)
<i>Drosophila sechellia</i>	Fruit Fly	1.3	dsec-all-r1.3.gff	flybase.org	(Drosophila 12 Genomes Consortium et al. 2007)
<i>Drosophila simulans</i>	Fruit Fly	2.01	dsim-all-r2.01.gff	flybase.org	(Drosophila 12 Genomes Consortium et al. 2007)
<i>Drosophila erecta</i>	Fruit Fly	1.04	dere-all-r1.04.gff	flybase.org	(Drosophila 12 Genomes Consortium et al. 2007)
<i>Drosophila yakuba</i>	Fruit Fly	1.04	dyak-all-r1.04.gff	flybase.org	(Drosophila 12 Genomes Consortium et al. 2007)
<i>Drosophila ananassae</i>	Fruit Fly	1.04	dana-all-r1.04.gff	flybase.org	(Drosophila 12 Genomes Consortium et al. 2007)
<i>Drosophila persimilis</i>	Fruit Fly	1.3	dper-all-r1.3.gff	flybase.org	(Drosophila 12 Genomes Consortium et al. 2007)
<i>Drosophila pseudoobscura</i>	Fruit Fly	3.03	dpse-all-r3.03.gff	flybase.org	(Richards et al. 2005)
<i>Drosophila willistoni</i>	Fruit Fly	1.04	dwil-all-r1.04.gff	flybase.org	(Drosophila 12 Genomes Consortium et al. 2007)
<i>Drosophila grimshawi</i>	Fruit Fly	1.3	dgri-all-r1.3.gff	flybase.org	(Drosophila 12 Genomes Consortium et al. 2007)
<i>Drosophila mojavensis</i>	Fruit Fly	1.04	dmoj-all-r1.04.gff	flybase.org	(Drosophila 12 Genomes Consortium et al. 2007)
<i>Drosophila virilis</i>	Fruit Fly	1.03	dvir-all-r1.03.gff	flybase.org	(Drosophila 12 Genomes Consortium et al. 2007)
<i>Anopheles gambiae</i>	Malaria Mosquito	4.2	Anopheles-gambiae-PEST_BASEFEATURES_AgamP4.2.gff3	vectorbase.org	(Holt et al. 2002)
<i>Anopheles coluzzii</i>	Mosquito	1.2	Anopheles-coluzzii-Mali-NIH_BASEFEATURES_AcolM1.2.gff3	vectorbase.org	(Lawniczak et al. 2010)
<i>Anopheles merus</i>	Mosquito	2.1	Anopheles-merus-MAF_BASEFEATURES_AmerM2.1.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles melas</i>	Mosquito	2.1	Anopheles-melas-CM1001059_BASEFEATURES_AmelC2.1.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles quadriannulatus</i>	Mosquito	1.3	Anopheles-quadriannulatus-SANGQUA_BASEFEATURES_AquaS1.3.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles arabiensis</i>	Mosquito	1.3	Anopheles-arabiensis-Dongola_BASEFEATURES_AaraD1.3.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles christyi</i>	Mosquito	1.3	Anopheles-christyi-ACHKN1017_BASEFEATURES_AchrA1.3.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles epiroticus</i>	Mosquito	1.3	Anopheles-epiroticus-Epiroticus2_BASEFEATURES_AepiE1.3.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles stephensi</i>	Mosquito	2.2	Anopheles-stephensi-Indian_BASEFEATURES_Astel2.2.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles maculatus</i>	Mosquito	1.3	Anopheles-maculatus-maculatus3_BASEFEATURES_AmacM1.3.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles culicifacies</i>	Mosquito	1.3	Anopheles-culicifacies-A-37_BASEFEATURES_Acula1.3.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles minimus</i>	Mosquito	1.3	Anopheles-minimus-MINIMUS1_BASEFEATURES_AminM1.3.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles funestus</i>	Mosquito	1.3	Anopheles-funestus-FUMOSZ_BASEFEATURES_AfunF1.3.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles dirus</i>	Mosquito	1.3	Anopheles-dirus-WRAIR2_BASEFEATURES_AdirW1.3.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles farauti</i>	Mosquito	2.1	Anopheles-farauti-FAR1_BASEFEATURES_AfarF2.1.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles atroparvus</i>	Mosquito	1.3	Anopheles-atroparvus-EBRO_BASEFEATURES_AatrE1.3.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles sinensis</i>	Mosquito	2.1	Anopheles-sinensis-SINENSIS_BASEFEATURES_AsinS2.1.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles albimanus</i>	Mosquito	1.3	Anopheles-albimanus-STECLA_BASEFEATURES_AalbS1.3.gff3	vectorbase.org	(Neafsey et al. 2015)
<i>Anopheles darlingi</i>	Mosquito	3.3	Anopheles-darlingi-Coari_BASEFEATURES_AdarC3.3.gff3	vectorbase.org	(Marinotti et al. 2013)
<i>Culex quinquefasciatus</i>	West Nile Mosquito	2.2	Culex-quinquefasciatus-Johannesburg_BASEFEATURES_CpipJ2.2.gff3	vectorbase.org	(Arensburger et al. 2010)
<i>Bombyx mori</i>	Silkworm	1.29	Bombyx_mori.GCA_000151625.1.29.gff3	metazoa.ensembl.org	(Xia et al. 2004)
<i>Tribolium castaneum</i>	Red Flour Beetle	3.29	Tribolium_castaneum.Tcas3.29.gff3	metazoa.ensembl.org	(Tribolium Genome Sequencing Consortium et al. 2008)
<i>Nasonia vitripennis</i>	Jewel Wasp	2.29	Nasonia_vitripennis.GCA_000002325.2.29.gff3	metazoa.ensembl.org	(Werren et al. 2010)
<i>Apis mellifera</i>	Honey Bee	4.5	Apis_mellifera.GCA_000002195.1.29.gff3	metazoa.ensembl.org	(Honeybee Genome Sequencing Consortium 2006)
<i>Pogonomyrmex barbatus</i>	Red Harvester Ant	1.2	pbar.genome.OGS.1.2.gff	hymenoptera.genome.org	(Smith et al. 2011)
<i>Acyrtosiphon pisum</i>	Pea Aphid	2.29	Acyrtosiphon_pisum.GCA_000142985.2.29.gff3	metazoa.ensembl.org	(International Aphid Genomics Consortium 2010)
<i>Pediculus humanus</i>	Head Louse	2.1	Pediculus-humanus-USDA_BASEFEATURES_PhumU2.1.gff3	vectorbase.org	(Kirkness et al. 2010)
<i>Daphnia pulex</i>	Water Flea (crustacea)	1.29	Daphnia_pulex.GCA_000187875.1.29.gff3	metazoa.ensembl.org	(Colbourne et al. 2011)
<i>Strigamia maritima</i>	Centipede	1.29	Strigamia_maritima.Smar1.29.gff3	metazoa.ensembl.org	(Chipman et al. 2014)

<i>Ixodes scapularis</i>	Deer Tick (arachnid)	1.4	ixodes-scapularis-wikelbasefeaturesiscaw14.gff3	vectorbase.org	(Gulia-Nuss et al. 2016)
<i>Caenorhabditis elegans</i>	Roundworm (nematode)	249	c_elegans.PRJNA13758.WS249.annotations.gff3	wormbase.org	(C. elegans Sequencing Consortium 1998)
<i>Xenopus tropicalis</i>	Western Clawed Frog	4.1	xenTro2.JGI4.1.Aug2005.Ensembl.gtf.gff	genome.ucsc.edu	(Hellsten et al. 2010)
<i>Mus musculus</i>	Mouse	M5	gencode.vM5.annotation.gtf.coding	gencodegenes.org	(Mudge and Harrow 2015)
<i>Tarsius syrichta</i>	Tarsier	1.61	Tarsius_syrichta.tarSyr1.61.gtf.gff	ensembl.org	(Lindblad-Toh et al. 2011)
<i>Homo sapiens</i>	Human	23	gencode.v23.annotation.gtf.coding	gencodegenes.org	(Harrow et al. 2012)
<i>Branchiostoma floridae</i>	Florida Lancelet	1Mar2006	braFlo1Mar2006.OtherRefSeq.gtf.gff	genome.ucsc.edu	(Putnam et al. 2008)
<i>Nematostella vectensis</i>	Sea Anemone	1.29	Nematostella_vectensis.GCA_000209225.1.29.gff3	metazoa.ensembl.org	(Putnam et al. 2007)
<i>Saccharomyces cerevisiae</i>	Baker's Yeast	2June2008	sacCer2June2008Ensembl.gtf.gff	ensemble.org	(Cherry et al. 1997)
<i>Candida albicans</i>	Thrush Yeast	21	C_albicans_SC5314_A21_features_with_chromosome_sequences.gff	candidagenome.org	(Muzzey et al. 2013)
<i>Glycine max</i>	Soybean	1	Glyma1_highConfidence.gff3	phytozome.net	(Schmutz et al. 2010)

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