

S3 Table. *Wolbachia* reference genomes

Assembly identifier	Short name	Taxonomic order host	Wolbachia supergroup	Circular / linear	Numbers of scaffolds	Genome size (bp)	BUSCO completeness	Removed contigs
GCA_902636475.1	R_Col_DiaVir_A	Coleopta	A	linear	105	1269619	C:95.4%[S:95.1%,D:0.3%],F:2.5%,M:2.1%,n:364	CACPRN010000079.1 (Brevundimonas), CACPRN010000081.1 (Pythium), CACPRN010000092.1 (Stenotrophomonas), CACPRN010000095.1 (Rhizobacter), CACPRN010000100.1 (Sphingopyxis), CACPRN010000101.1 (Singulisphaera), CACPRN010000102.1 (Chitinophaga), CACPRN010000103.1 (Bacillus), CACPRN010000105.1 (uncultured bacterium), CACPRN010000106.1 (Sphingobacterium), CACPRN010000107.1 (Bosea), CACPRN010000109.1 (Advenella), CACPRN010000111.1 (Devosia), CACPRN010000119.1 (Niabella)
GCF_017896245.1	R_Dip_AedAeg_A	Diptera	A	circular	1	1267786	C:99.5%[S:99.2%,D:0.3%],F:0.0%,M:0.5%,n:364	
GCF_018454455.1	R_Dip_CerCap_A	Diptera	A	linear	65	1239646	C:99.4%[S:98.9%,D:0.5%],F:0.0%,M:0.6%,n:364	
GCA_021609905.1	R_Dip_DelRad_A	Diptera	A	circular	1	1586584	C:98.9%[S:98.1%,D:0.8%],F:0.3%,M:0.8%,n:364	
GCF_008033215.1	R_Dip_DroAna_A	Diptera	A	circular	1	1401460	C:99.2%[S:99.2%,D:0.0%],F:0.3%,M:0.5%,n:364	
GCA_014129655.1	R_Dip_DroAra_A	Diptera	A	linear	10	1293235	C:99.5%[S:99.5%,D:0.0%],F:0.0%,M:0.5%,n:364	
GCF_017916175.1	R_Dip_DroAur_A	Diptera	A	linear	116	1319217	C:99.2%[S:99.2%,D:0.0%],F:0.0%,M:0.8%,n:364	
GCF_014129605.1	R_Dip_DroBai_A	Diptera	A	linear	26	1190958	C:97.5%[S:97.5%,D:0.0%],F:0.3%,M:2.2%,n:364	
GCF_014129645.1	R_Dip_DroBic_A	Diptera	A	linear	24	1182871	C:99.2%[S:99.2%,D:0.0%],F:0.0%,M:0.8%,n:364	
GCF_014129685.1	R_Dip_DroBif_A	Diptera	A	linear	17	1190237	C:99.2%[S:99.2%,D:0.0%],F:0.0%,M:0.8%,n:364	
GCF_014129615.1	R_Dip_DroBor_A	Diptera	A	linear	16	1214204	C:98.4%[S:98.4%,D:0.0%],F:0.0%,M:1.6%,n:364	
GCF_001758565.1	R_Dip_DroInc_A	Diptera	A	circular	1	1267840	C:95.6%[S:95.6%,D:0.0%],F:2.5%,M:1.9%,n:364	
GCF_016584355.1	R_Dip_DroMel_A	Diptera	A	circular	1	1330657	C:99.5%[S:99.2%,D:0.3%],F:0.0%,M:0.5%,n:364	
GCF_014129535.1	R_Dip_DroNeo_A	Diptera	A	linear	19	1355678	C:99.2%[S:99.2%,D:0.0%],F:0.0%,M:0.8%,n:364	
GCF_014107455.1	R_Dip_DroNik_A	Diptera	A	circular	1	1139744	C:99.7%[S:99.7%,D:0.0%],F:0.0%,M:0.3%,n:364	
GCF_014129565.1	R_Dip_DroOri_A	Diptera	A	linear	19	1363981	C:99.2%[S:98.9%,D:0.3%],F:0.0%,M:0.8%,n:364	
GCA_000742435.1	R_Dip_DroRec_A	Diptera	A	linear	43	1126656	C:99.2%[S:98.9%,D:0.3%],F:0.3%,M:0.5%,n:364	
GCF_018467135.1	R_Dip_DroSan_A	Diptera	A	circular	1	1409094	C:99.5%[S:99.5%,D:0.0%],F:0.0%,M:0.5%,n:364	
GCA_014354315.1	R_Dip_DroSec_A	Diptera	A	linear	83	1294885	C:99.4%[S:98.9%,D:0.5%],F:0.0%,M:0.6%,n:364	
GCF_000022285.1	R_Dip_DroSim_A	Diptera	A	circular	1	1445873	C:98.9%[S:98.9%,D:0.0%],F:0.5%,M:0.6%,n:364	
GCF_014107475.1	R_Dip_DroStu_A	Diptera	A	circular	1	1185354	C:99.7%[S:99.2%,D:0.5%],F:0.0%,M:0.3%,n:364	
GCA_002300525.1	R_Dip_DroSub_A	Diptera	A	linear	106	1420341	C:99.2%[S:99.2%,D:0.0%],F:0.3%,M:0.5%,n:364	
GCA_000333795.2	R_Dip_DroSuz_A	Diptera	A	linear	110	1415350	C:99.2%[S:99.2%,D:0.0%],F:0.3%,M:0.5%,n:364	
GCA_005862135.1	R_Dip_DroTei_A	Diptera	A	linear	122	1301330	C:99.5%[S:99.5%,D:0.0%],F:0.0%,M:0.5%,n:364	
GCF_014129515.1	R_Dip_DroTri_A	Diptera	A	linear	9	1289544	C:98.9%[S:98.9%,D:0.0%],F:0.0%,M:1.1%,n:364	
GCF_014129525.1	R_Dip_DroTro_A	Diptera	A	linear	13	1215752	C:99.5%[S:99.5%,D:0.0%],F:0.0%,M:0.5%,n:364	

GCA_005862115.1	R_Dip_DroYak_A	Diptera	A	linear	118	1288853	C:99.5%[S:99.5%,D:0.0%],F:0.0%,M:0.5%,n:364	
GCA_009732755.1	R_Dip_Haelrr_A	Diptera	A	circular	1	1352354	C:99.5%[S:99.5%,D:0.0%],F:0.0%,M:0.5%,n:364	
GCF_018454475.1	R_Dip_RagCer1_A	Diptera	A	linear	16	1255676	C:99.5%[S:99.2%,D:0.3%],F:0.0%,M:0.5%,n:364	
GCF_017604245.1	R_Dip_RhaCin_A	Diptera	A	circular	1	1538351	C:99.5%[S:99.5%,D:0.0%],F:0.0%,M:0.5%,n:364	
GCA_014333535.1	R_Hym_AnoGra_A	Hymenoptera	A	linear	96	1202684	C:99.7%[S:99.7%,D:0.0%],F:0.0%,M:0.3%,n:364	
GCF_010820705.1	R_Hym_AptDen_A	Hymenoptera	A	linear	49	1174448	C:94.8%[S:92.6%,D:2.2%],F:1.4%,M:3.8%,n:364	NZ_SDUV01000004.1, NZ_SDUV01000005.1, NZ_SDUV01000007.1, NZ_SDUV01000011.1, NZ_SDUV01000012.1, NZ_SDUV01000017.1, NZ_SDUV01000019.1, NZ_SDUV01000020.1, NZ_SDUV01000029.1, NZ_SDUV01000048.1, NZ_SDUV01000049.1 (mitochondrion host)
GCF_902713635.1	R_Hym_CarObs_A	Hymenoptera	A	linear	148	1194983	C:99.2%[S:98.9%,D:0.3%],F:0.0%,M:0.8%,n:364	
GCA_017869155.1	R_Hym_CerSoI_A	Hymenoptera	A	circular	1	1206967	C:98.9%[S:98.9%,D:0.0%],F:0.3%,M:0.8%,n:364	
GCA_902648475.2	R_Hym_DiaAll_A	Hymenoptera	A	linear	169	1249264	C:97.3%[S:97%,D:0.3%],F:1.4%,M:1.3%,n:364	CACRJV020000057.1, CACRJV020000099.1, CACRJV020000109.1, CACRJV020000112.1, CACRJV020000115.1, CACRJV020000128.1, CACRJV020000140.1, CACRJV020000144.1, CACRJV020000153.1, CACRJV020000156.1 (Rickettsia)
GCA_902636375.1	R_Hym_DuffNov_A	Hymenoptera	A	linear	221	1188140	C:95.3%[S:95.3%,D:0.0%],F:3.0%,M:1.7%,n:364	CACPRR010000135.1 (mitochondrion host)
GCA_902636315.1	R_Hym_LasAlb_A	Hymenoptera	A	linear	228	1195679	C:97.6%[S:97.3%,D:0.3%],F:1.9%,M:0.5%,n:364	CACPRV010000175.1 (Sodalis)
GCF_009012935.1	R_Hym_NasOne_A	Hymenoptera	A	linear	47	1293406	C:95.6%[S:95.3%,D:0.3%],F:0.3%,M:4.1%,n:364	
GCA_001983615.1	R_Hym_NasVit_A	Hymenoptera	A	linear	136	1198879	C:99.5%[S:99.2%,D:0.3%],F:0.0%,M:0.5%,n:364	MUJM01000137, MUJM01000138 (mitochondrion host), MUJM01000139-MUJM01000142 (Proteus)
GCA_001675785.1	R_Hym_NomFer_A	Hymenoptera	A	linear	231	1337641	C:98.6%[S:98.1%,D:0.5%],F:0.5%,M:0.9%,n:364	
GCF_001675695.1	R_Hym_NomFla_A	Hymenoptera	A	linear	167	1332780	C:98.7%[S:98.4%,D:0.3%],F:0.3%,M:1.0%,n:364	
GCA_001675715.1	R_Hym_NomLeu_A	Hymenoptera	A	linear	182	1366719	C:98.9%[S:98.9%,D:0.0%],F:0.3%,M:0.8%,n:364	
GCA_001675775.1	R_Hym_NomPan_A	Hymenoptera	A	linear	191	1344355	C:98.6%[S:95.9%,D:2.7%],F:0.5%,M:0.9%,n:364	
GCA_017869285.1	R_Hym_WiePum_A	Hymenoptera	A	circular	1	1278697	C:99.4%[S:97.5%,D:1.9%],F:0.0%,M:0.6%,n:364	
GCF_006542295.1	R_Lep_CarSas_A	Lepidoptera	A	circular	1	1449344	C:99.2%[S:99.2%,D:0.0%],F:0.0%,M:0.8%,n:364	
GCA_902646255.1	R_Ara_TetUrt_B	Arachnida	B	linear	149	1157560	C:99.5%[S:99.5%,D:0.0%],F:0.0%,M:0.5%,n:364	
GCF_020405475.1	R_Col_TriCon_B	Coleopta	B	linear	12	1418452	C:96.9%[S:96.4%,D:0.5%],F:0.0%,M:3.1%,n:364	
GCF_004171285.1	R_Dip_AedAlb_B	Diptera	B	circular	1	1484007	C:99.2%[S:98.4%,D:0.8%],F:0.3%,M:0.5%,n:364	
GCF_018491735.1	R_Dip_AnoDem_B	Diptera	B	linear	64	1232500	C:98.9%[S:98.9%,D:0.0%],F:0.0%,M:1.1%,n:364	
GCF_018491625.2	R_Dip_AnoMou_B	Diptera	B	circular	1	1121812	C:98.9%[S:98.6%,D:0.3%],F:0.3%,M:0.8%,n:364	
GCF_008245065.1	R_Dip_ChrMeg_B	Diptera	B	circular	1	1376868	C:99.7%[S:98.9%,D:0.8%],F:0.0%,M:0.3%,n:364	
GCA_000723225.2	R_Dip_CulMol_B	Diptera	B	linear	103	1435676	C:97.8%[S:97.5%,D:0.3%],F:1.1%,M:1.1%,n:364	
GCF_000073005.1	R_Dip_CulQui_B	Diptera	B	circular	1	1482455	C:99.4%[S:98.9%,D:0.5%],F:0.3%,M:0.3%,n:364	
GCF_004795975.1	R_Dip_DroMau_B	Diptera	B	circular	1	1273530	C:99.2%[S:98.9%,D:0.3%],F:0.3%,M:0.5%,n:364	
GCF_000376585.1	R_Dip_DroSim_B	Diptera	B	circular	1	1301823	C:99.8%[S:99.5%,D:0.3%],F:0.0%,M:0.2%,n:364	
GCF_018454445.1	R_Dip_RagCer5_B	Diptera	B	linear	57	1180723	C:98.3%[S:97.8%,D:0.5%],F:0.5%,M:1.2%,n:364	

GCF_003999585.1	R_Hem_BemTab_B	Hemiptera	B	circular	1	1306495	C:96.4%[S:94.8%,D:1.6%],F:1.4%,M:2.2%,n:364
GCF_013458815.1	R_Hem_DiaCit_B	Hemiptera	B	circular	1	1656288	C:99.7%[S:99.2%,D:0.5%],F:0.0%,M:0.3%,n:364
GCA_018224395.1	R_Hem_HomVit_B	Hemiptera	B	linear	1	1712771	C:98.9%[S:97.5%,D:1.4%],F:0.3%,M:0.8%,n:364
GCF_007115015.1	R_Hem_LaoStr_B	Hemiptera	B	linear	2	1786382	C:99.4%[S:98.9%,D:0.5%],F:0.0%,M:0.6%,n:364
GCF_007115045.1	R_Hem_NilLug_B	Hemiptera	B	linear	2	1542238	C:99.5%[S:98.4%,D:1.1%],F:0.0%,M:0.5%,n:364
GCF_006334525.1	R_Hym_LepCla_B	Hymenoptera	B	linear	46	1150755	C:98.9%[S:98.4%,D:0.5%],F:0.3%,M:0.8%,n:364
GCF_001439985.1	R_Hym_TriPre_B	Hymenoptera	B	circular	1	1133809	C:99.5%[S:99.5%,D:0.0%],F:0.0%,M:0.5%,n:364
GCF_001027565.1	R_Iso_ArmVul_B	Isopoda	B	linear	10	1663741	C:97.8%[S:97.5%,D:0.3%],F:1.1%,M:1.1%,n:364
GCF_020995475.1	R_Lep_CorCep_B	Lepidoptera	B	circular	1	1359904	C:99.5%[S:99.5%,D:0.0%],F:0.0%,M:0.5%,n:364
GCF_018555315.1	R_Lep_EreCas_B	Lepidoptera	B	linear	2	1423447	C:94.5%[S:94.2%,D:0.3%],F:0.0%,M:5.5%,n:364
GCF_000333775.1	R_Lep_HypBoL_B	Lepidoptera	B	linear	144	1377933	C:99.2%[S:98.9%,D:0.3%],F:0.3%,M:0.5%,n:364
GCF_001266585.1	R_Lep_OphBru_B	Lepidoptera	B	linear	120	1121046	C:98.1%[S:98.1%,D:0.0%],F:0.5%,M:1.4%,n:364
GCA_902636855.1	R_Lep_ParAeg_B	Lepidoptera	B	linear	64	1268638	C:99.5%[S:99.5%,D:0.0%],F:0.3%,M:0.2%,n:364
GCA_002318985.1	R_Lep_PluAus_B	Lepidoptera	B	linear	95	1158805	C:99.7%[S:99.7%,D:0.0%],F:0.0%,M:0.3%,n:364
GCF_018141665.1	R_Lep_SpoPic_B	Lepidoptera	B	circular	1	1339720	C:99.4%[S:98.9%,D:0.5%],F:0.0%,M:0.6%,n:364
GCF_013365455.1	R_Nem_DirImm_C	Nematoda	C	circular	1	920122	C:94.5%[S:94.5%,D:0.0%],F:0.3%,M:5.2%,n:364
GCF_000306885.1	R_Nem_OncOch_C	Nematoda	C	circular	1	957990	C:95.1%[S:95.1%,D:0.0%],F:0.0%,M:4.9%,n:364
GCF_000530755.1	R_Nem_OncVol_C	Nematoda	C	linear	1	960618	C:94.8%[S:94.8%,D:0.0%],F:0.3%,M:4.9%,n:364
GCF_000008385.1	R_Nem_BruMal_D	Nematoda	D	circular	1	1080084	C:98.6%[S:98.6%,D:0.0%],F:0.3%,M:1.1%,n:364
GCF_012030695.1	R_Nem_BruPah_D	Nematoda	D	circular	1	1072967	C:98.4%[S:98.4%,D:0.0%],F:0.3%,M:1.3%,n:364
GCF_013366805.1	R_Nem_LitBra_D	Nematoda	D	linear	41	1046149	C:94.5%[S:94.5%,D:0.0%],F:0.0%,M:5.5%,n:364
GCF_013365435.1	R_Nem_LitSig_D	Nematoda	D	circular	1	1045802	C:95.1%[S:95.1%,D:0.0%],F:0.3%,M:4.6%,n:364
GCF_002204235.2	R_Nem_WucBan_D	Nematoda	D	linear	100	1060850	C:95.3%[S:95.3%,D:0.0%],F:1.9%,M:2.8%,n:364
GCA_019061405.1	R_Ara_FraSet_E	Arachnida	E	linear	30	1082514	C:98.4%[S:98.1%,D:0.3%],F:0.3%,M:1.3%,n:364
GCF_001931755.2	R_Col_FolCan_E	Collembola	E	circular	1	1801626	C:99.5%[S:99.2%,D:0.3%],F:0.0%,M:0.5%,n:364
GCF_014534705.1	R_Hem_PenNig_E	Hemiptera	E	linear	182	1457187	C:98.7%[S:98.4%,D:0.3%],F:0.8%,M:0.5%,n:364
GCA_001752665.1	R_Nem_PrattPen_E	Nematoda	E	linear	12	975127	C:95.6%[S:95.1%,D:0.5%],F:2.7%,M:1.7%,n:364
GCF_012277295.1	R_Sip_CteFel_E	Siphonaptera	E	circular	1	1495538	C:98.9%[S:97.0%,D:1.9%],F:0.3%,M:0.8%,n:364
GCF_000829315.1	R_Hem_CimLex_F	Hemiptera	F	circular	1	1250060	C:97.8%[S:97.3%,D:0.5%],F:0.8%,M:1.4%,n:364
GCA_902636395.1	R_Hym_OsmCae_F	Hymenoptera	F	linear	163	1232261	C:98.7%[S:98.4%,D:0.3%],F:0.5%,M:0.8%,n:364
GCF_013366855.1	R_Nem_MadHie_F	Nematoda	F	linear	208	1025329	C:93.1%[S:92.6%,D:0.5%],F:3.8%,M:3.1%,n:364
GCF_020278625.1	R_Nem_ManOzz_F	Nematoda	F	linear	93	1073310	C:95.3%[S:95.3%,D:0.0%],F:1.6%,M:3.1%,n:364
GCF_012277315.1	R_Sip_CteFel_F	Siphonaptera	F	circular	1	1201647	C:99.5%[S:99.2%,D:0.3%],F:0.3%,M:0.2%,n:364
GCF_013365475.1	R_Nem_CruTub_J	Nematoda	J	circular	1	863988	C:94.0%[S:94.0%,D:0.0%],F:0.8%,M:5.2%,n:364
GCF_013365495.1	R_Nem_DipCau_J	Nematoda	J	circular	1	863427	C:92.3%[S:92.3%,D:0.0%],F:0.5%,M:7.2%,n:364
GCA_013317055.1	R_Ara_AtePolK5_S	Arachnida	S	linear	200	1404177	C:86.5%[S:83.2%,D:3.3%],F:5.8%,M:7.7%,n:364
GCF_013309895.1	R_Ara_AtePolK3_S	Arachnida	S	linear	373	1445964	C:88.5%[S:83.8%,D:4.7%],F:3.8%,M:7.7%,n:364