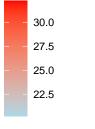
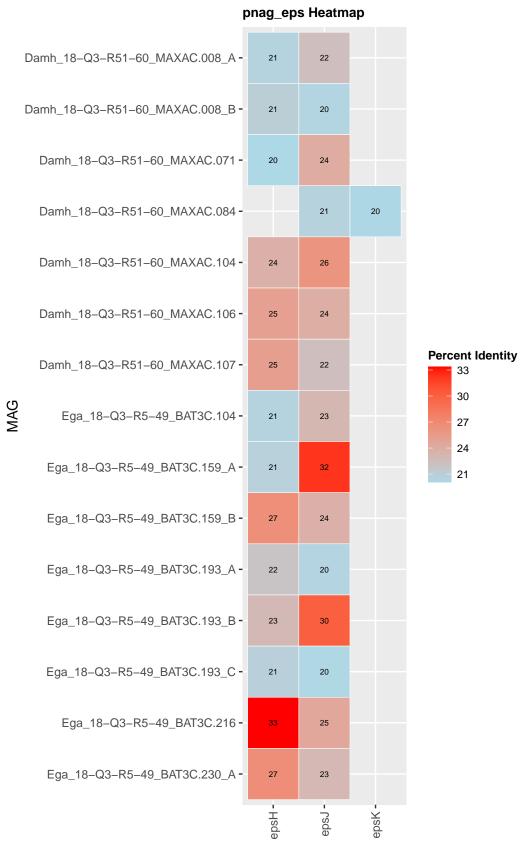


MAG



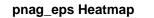


pnag_eps Heatmap Ega_18-Q3-R5-49_BAT3C.230_B -25 Ega_18-Q3-R5-49_BATAC.118 -30 20 Ega_18-Q3-R5-49_BATAC.213_A -21 Ega_18-Q3-R5-49_BATAC.213_B -22 25 Ega_18-Q3-R5-49_BATAC.213_C -22 23 Ega_18-Q3-R5-49_BATAC.220 -25 21 Percent Identity 32.5 Ega_18-Q3-R5-49_BATAC.486_A -27 22 © Ega_18-Q3-R5-49_BATAC.486_B -27 Ega_18-Q3-R5-49_MAXAC.001 -33 Ega_18-Q3-R5-49_MAXAC.016 -21 Ega_18-Q3-R5-49_MAXAC.022 -26 23 Ega_18-Q3-R5-49_MAXAC.048 -23 24 Ega_18-Q3-R5-49_MAXAC.056_A -20 25 Ega_18-Q3-R5-49_MAXAC.056_B -Ega_18-Q3-R5-49_MAXAC.075 -20 eps

30.0

27.5

25.0 22.5

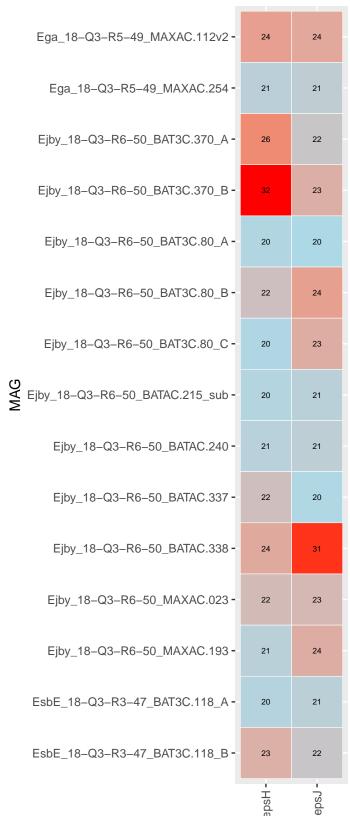


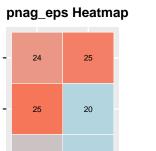
Percent Identity

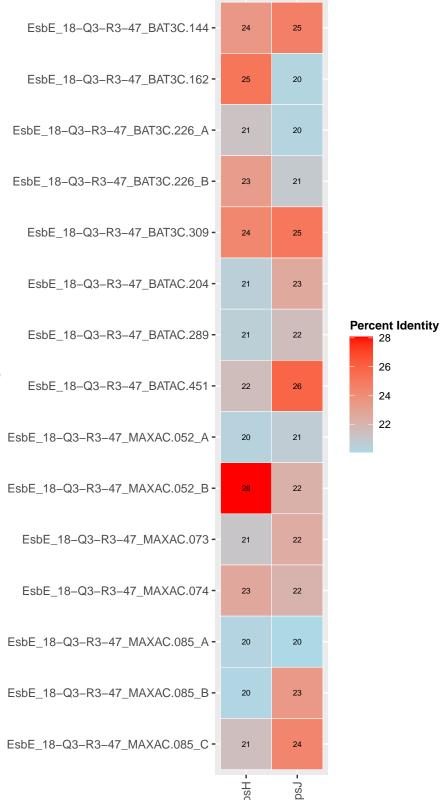
30.0

27.5

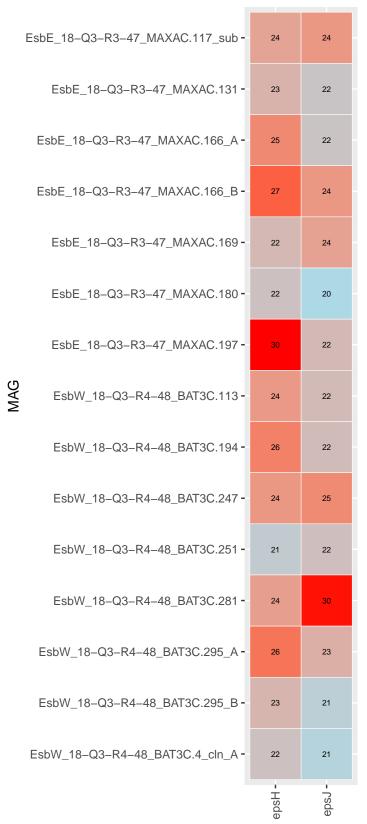
25.0 22.5

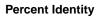




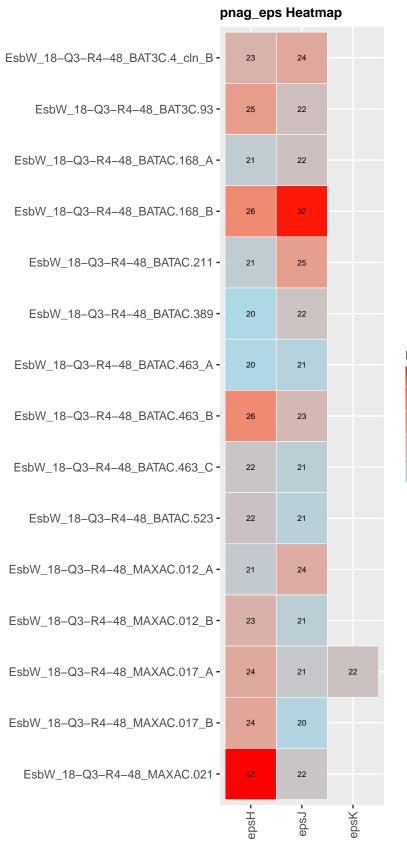


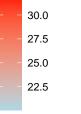
MAG











pnag_eps Heatmap EsbW_18-Q3-R4-48_MAXAC.050_A -21 EsbW_18-Q3-R4-48_MAXAC.050_B -25 22 EsbW_18-Q3-R4-48_MAXAC.050_C -21 22 EsbW_18-Q3-R4-48_MAXAC.058_sub -21 25 EsbW_18-Q3-R4-48_MAXAC.070 -22 24 EsbW_18-Q3-R4-48_MAXAC.076 -25 Percent Identity EsbW_18-Q3-R4-48_MAXAC.080 -23 26 EsbW_18-Q3-R4-48_MAXAC.089_A -20 20 24 22 EsbW_18-Q3-R4-48_MAXAC.089_B -20 23 EsbW_18-Q3-R4-48_MAXAC.089_C -21 EsbW_18-Q3-R4-48_MAXAC.090 -22 EsbW_18-Q3-R4-48_MAXAC.154 -24 20 EsbW_18-Q3-R4-48_MAXAC.167_sub_A -21 EsbW_18-Q3-R4-48_MAXAC.167_sub_B -21

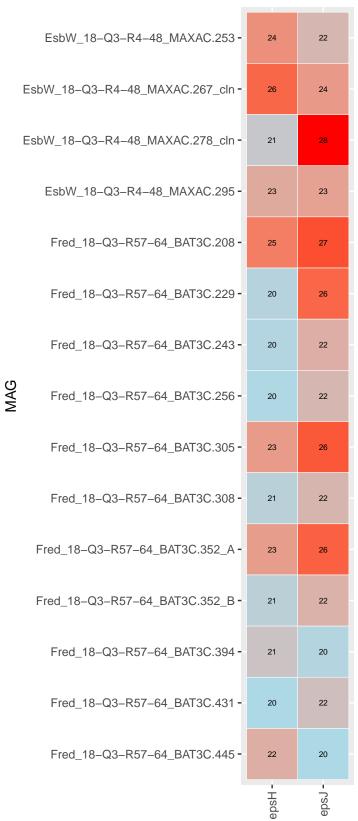
MAG

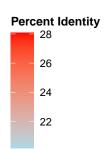
EsbW_18-Q3-R4-48_MAXAC.238 -

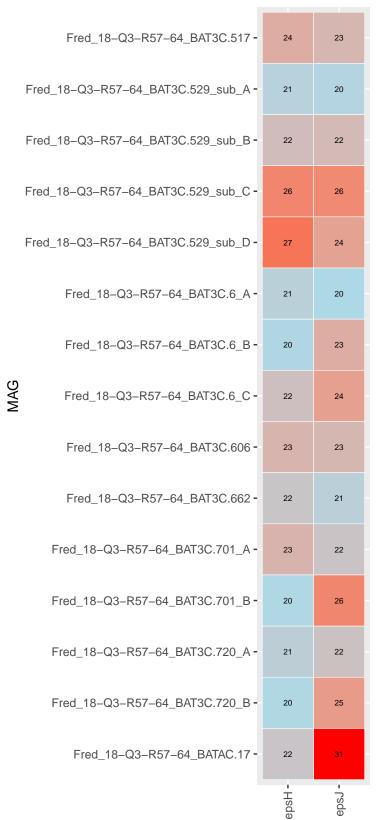
22

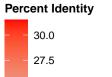
epsH-

24

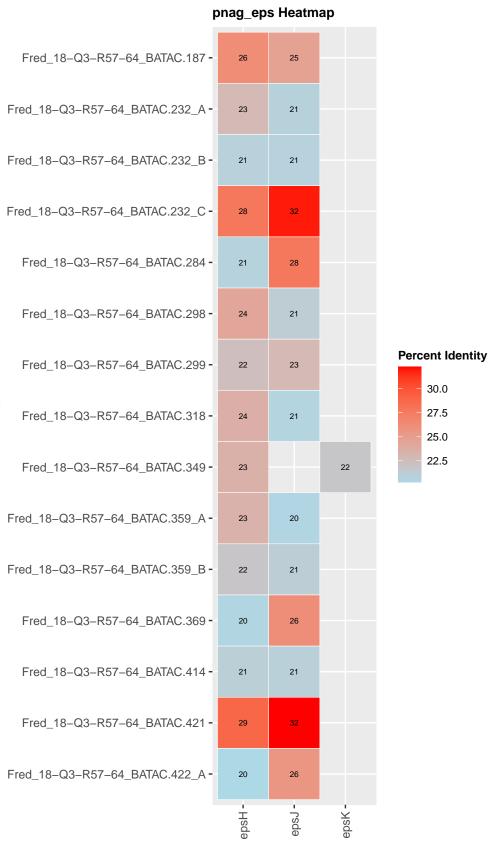






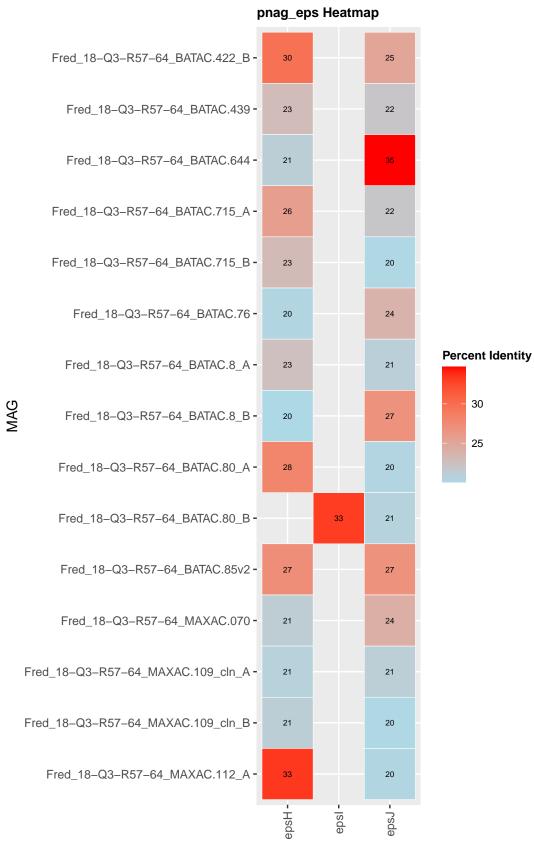


22.5

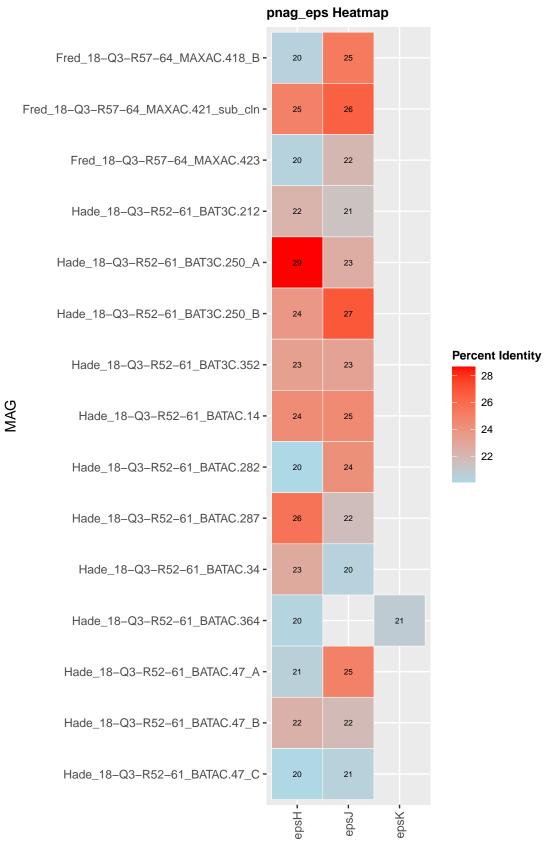


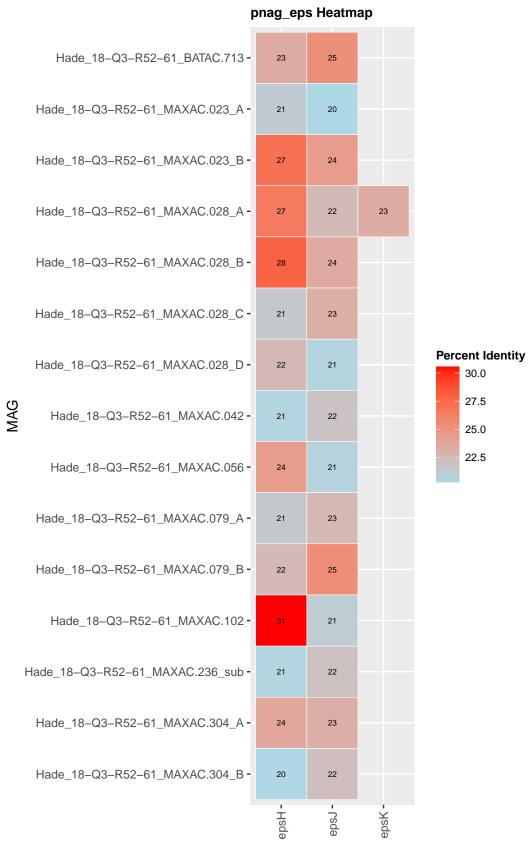
30.0 27.5

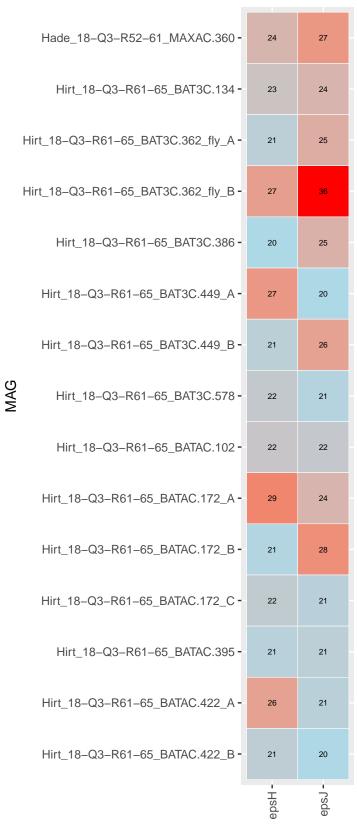
25.0 22.5

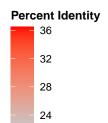


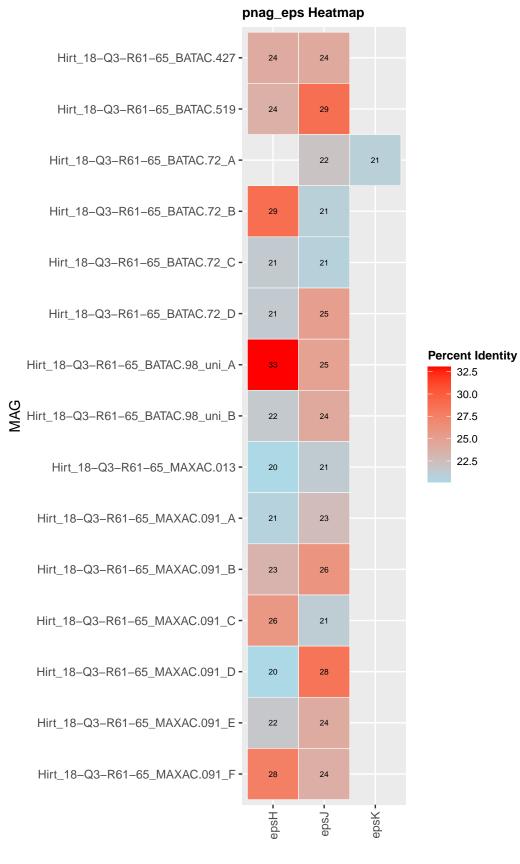
pnag_eps Heatmap Fred_18-Q3-R57-64_MAXAC.112_B -Fred_18-Q3-R57-64_MAXAC.148 -Fred_18-Q3-R57-64_MAXAC.220 -Fred_18-Q3-R57-64_MAXAC.276 -Fred_18-Q3-R57-64_MAXAC.288 -Fred_18-Q3-R57-64_MAXAC.292 -Percent Identity Fred_18-Q3-R57-64_MAXAC.307 - 20 Fred_18-Q3-R57-64_MAXAC.309 -Fred_18-Q3-R57-64_MAXAC.324 -Fred_18-Q3-R57-64_MAXAC.344 -Fred_18-Q3-R57-64_MAXAC.354 -Fred_18-Q3-R57-64_MAXAC.362 -Fred_18-Q3-R57-64_MAXAC.373 -Fred_18-Q3-R57-64_MAXAC.378 -Fred_18-Q3-R57-64_MAXAC.418_A -

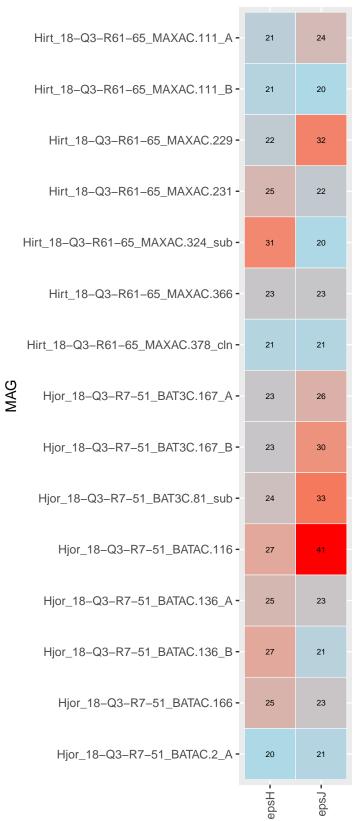




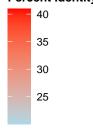


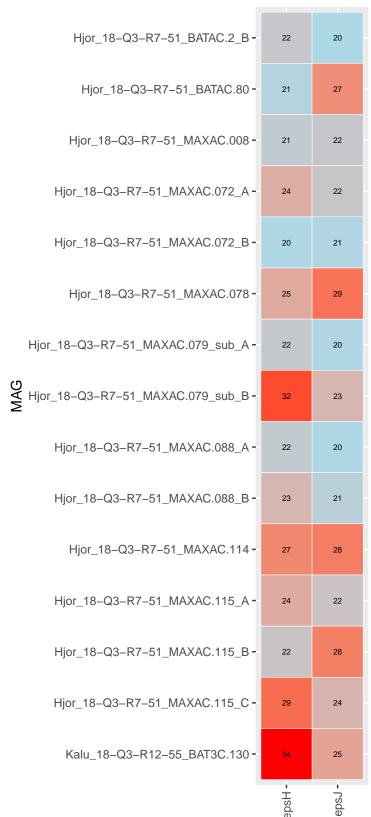


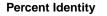


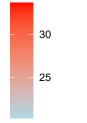


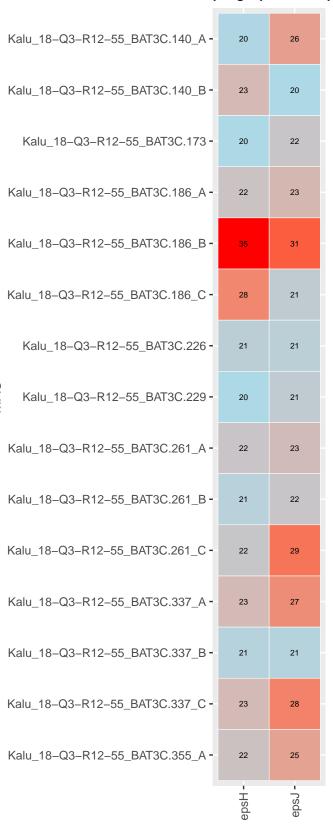


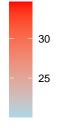


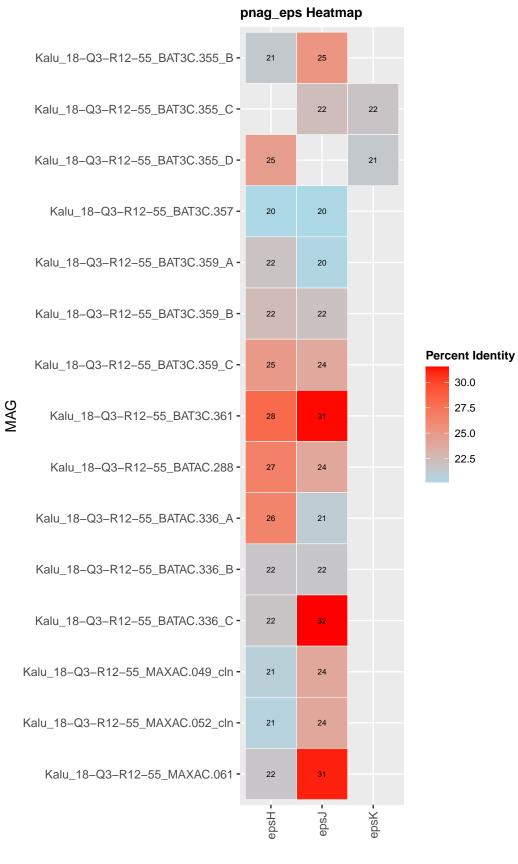








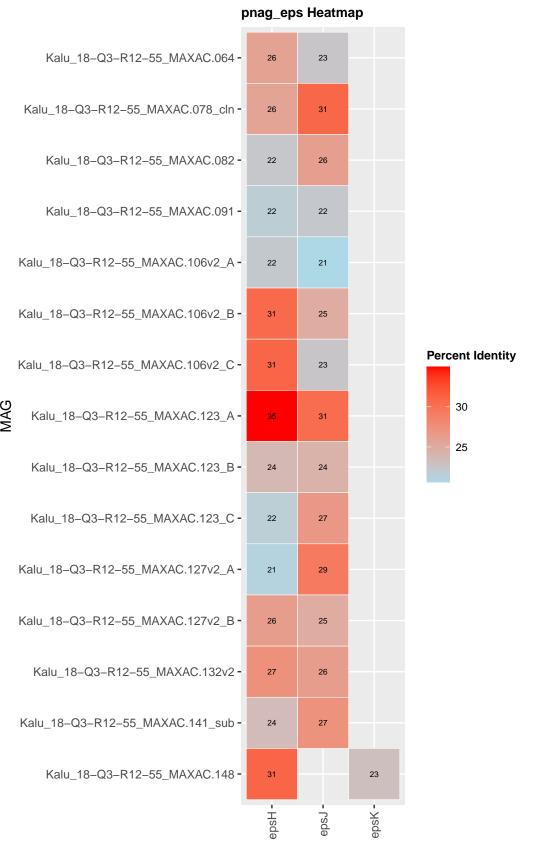


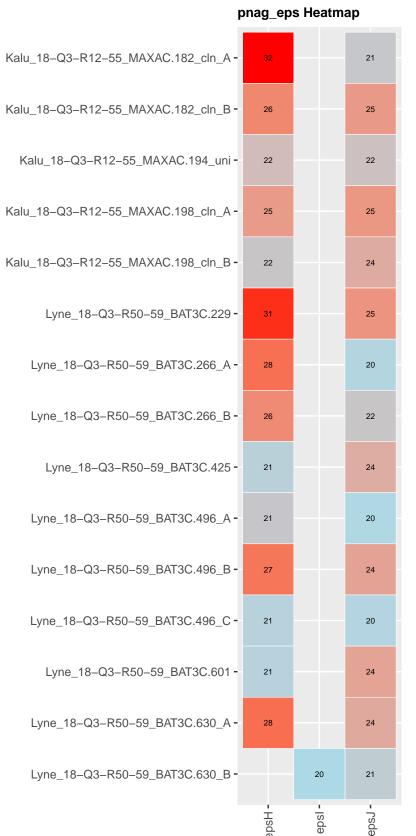


30.0

27.5

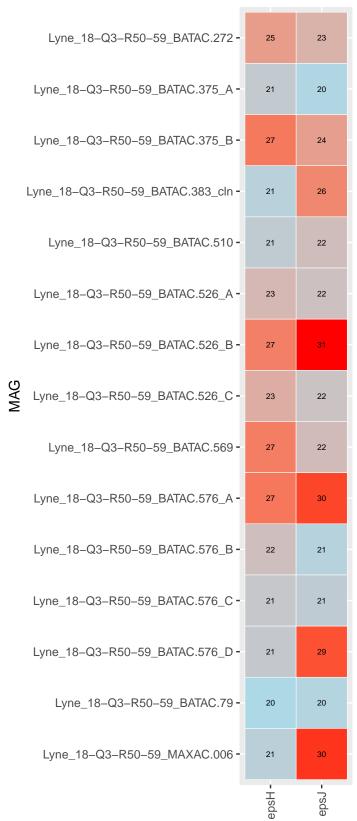
25.0 22.5

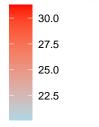


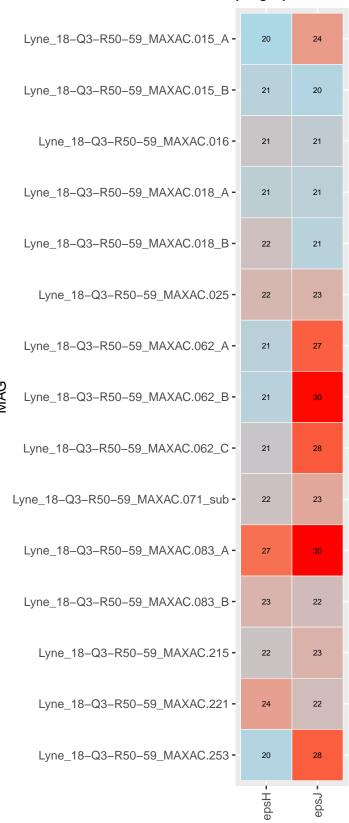


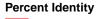
MAG

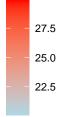


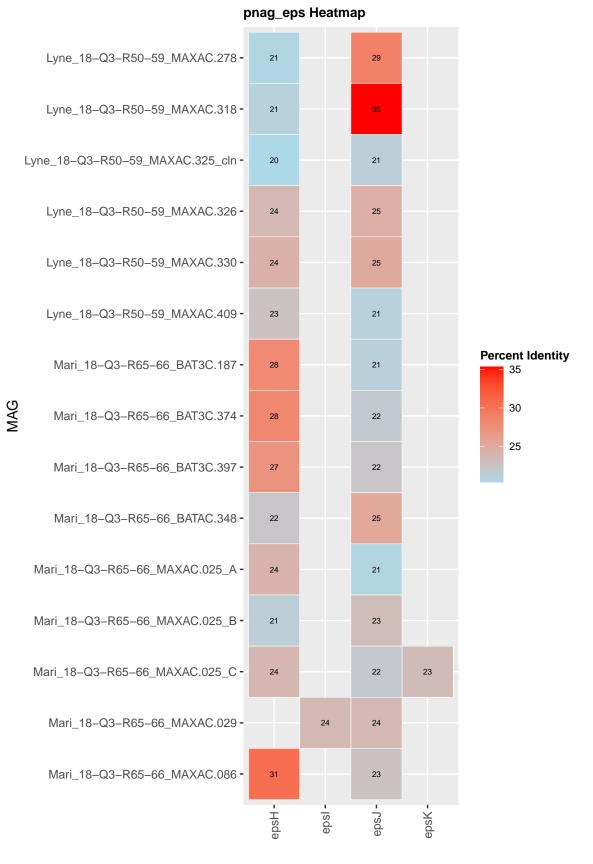




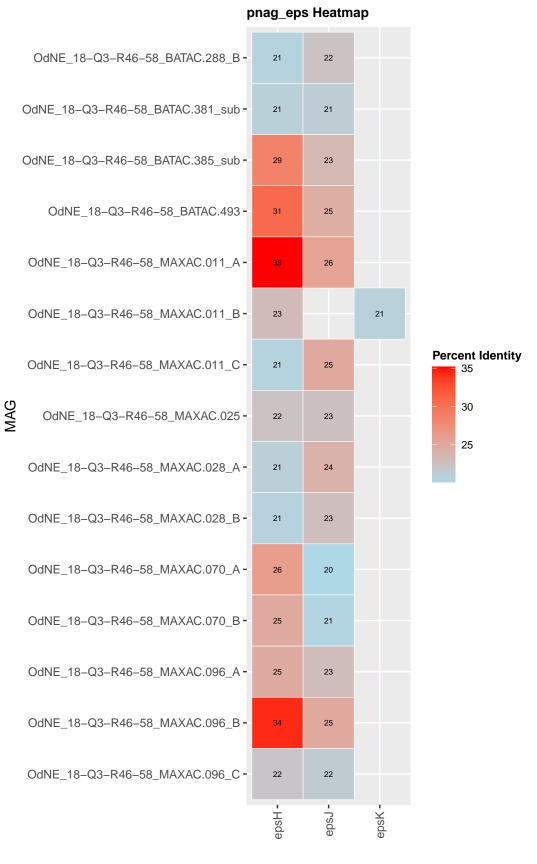


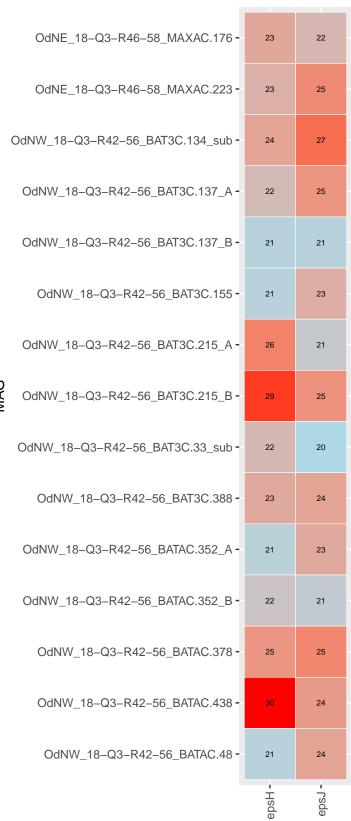


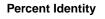


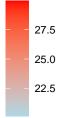


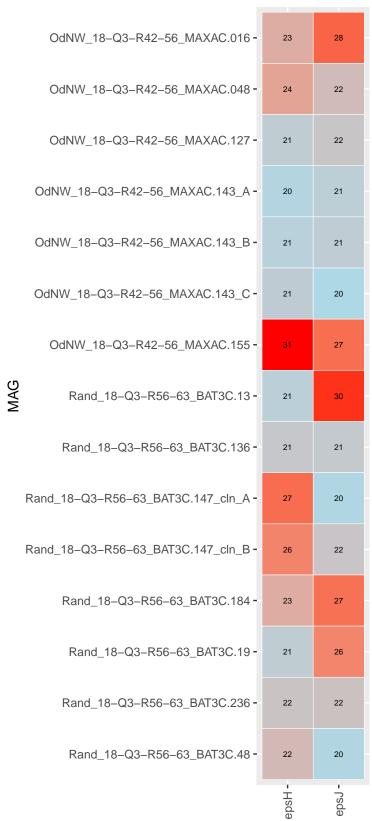
pnag_eps Heatmap Mari_18-Q3-R65-66_MAXAC.089_sub -23 Mari_18-Q3-R65-66_MAXAC.093 -24 Mari_18-Q3-R65-66_MAXAC.196_A -21 Mari_18-Q3-R65-66_MAXAC.196_B -20 Mari_18-Q3-R65-66_MAXAC.212 -24 Mari_18-Q3-R65-66_MAXAC.226 -22 23 **Percent Identity** OdNE_18-Q3-R46-58_BAT3C.189_A -28 26 OdNE_18-Q3-R46-58_BAT3C.189_B - 21 25 22 OdNE_18-Q3-R46-58_BAT3C.201_A -24 OdNE_18-Q3-R46-58_BAT3C.201_B -23 OdNE_18-Q3-R46-58_BATAC.187 -23 OdNE_18-Q3-R46-58_BATAC.190 -20 OdNE_18-Q3-R46-58_BATAC.193 -23 OdNE_18-Q3-R46-58_BATAC.286 -26 OdNE_18-Q3-R46-58_BATAC.288_A -23

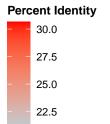


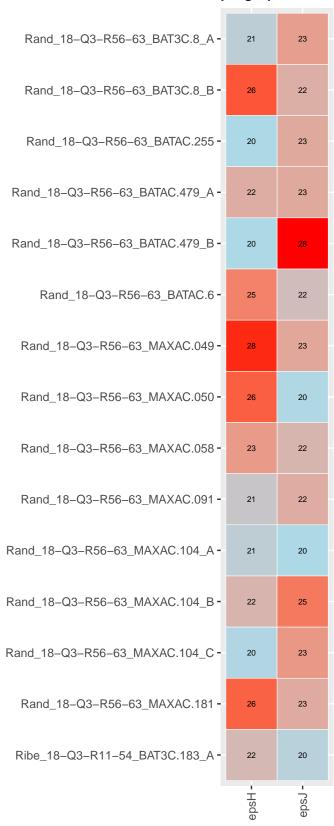




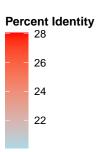




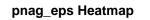


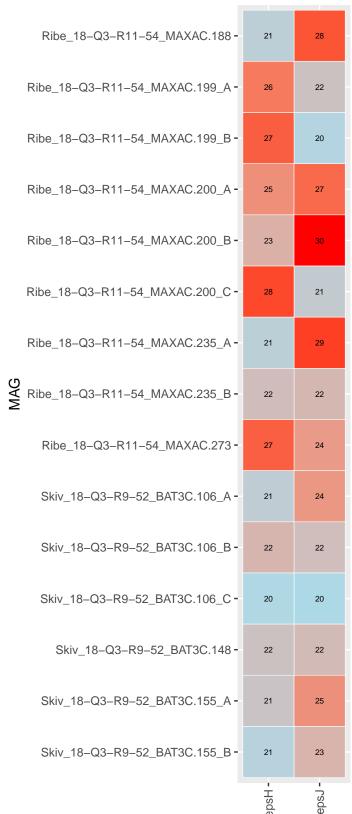


MAG

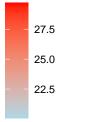


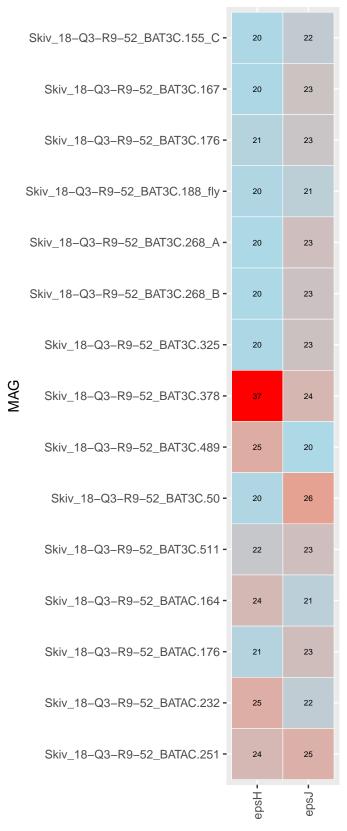
pnag_eps Heatmap Ribe_18-Q3-R11-54_BAT3C.183_B -23 Ribe_18-Q3-R11-54_BAT3C.183_C -22 28 Ribe_18-Q3-R11-54_BAT3C.183_D -21 28 Ribe_18-Q3-R11-54_BAT3C.418_A -20 23 Ribe_18-Q3-R11-54_BAT3C.418_B -24 22 Ribe_18-Q3-R11-54_BATAC.412 -20 Percent Identity Ribe_18-Q3-R11-54_BATAC.537 -21 24 © Ribe_18-Q3-R11-54_BATAC.650_A -30 24 25 Ribe_18-Q3-R11-54_BATAC.650_B -21 20 Ribe_18-Q3-R11-54_MAXAC.001 -33 Ribe_18-Q3-R11-54_MAXAC.058_A -22 Ribe_18-Q3-R11-54_MAXAC.058_B -22 Ribe_18-Q3-R11-54_MAXAC.058_C -25 Ribe_18-Q3-R11-54_MAXAC.069 -21 22 Ribe_18-Q3-R11-54_MAXAC.077 -





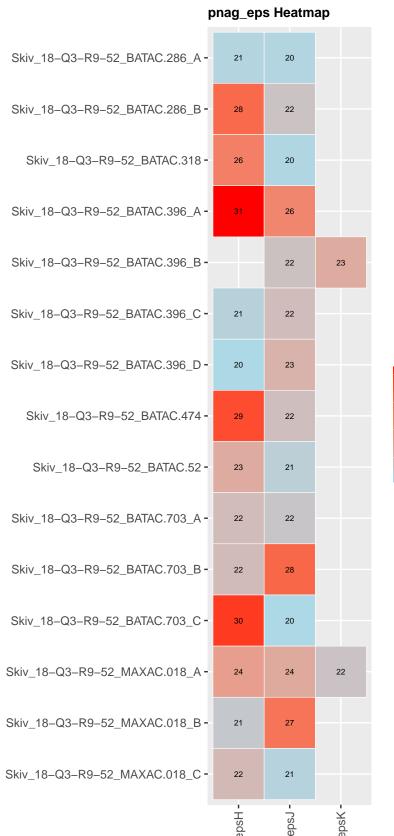
Percent Identity







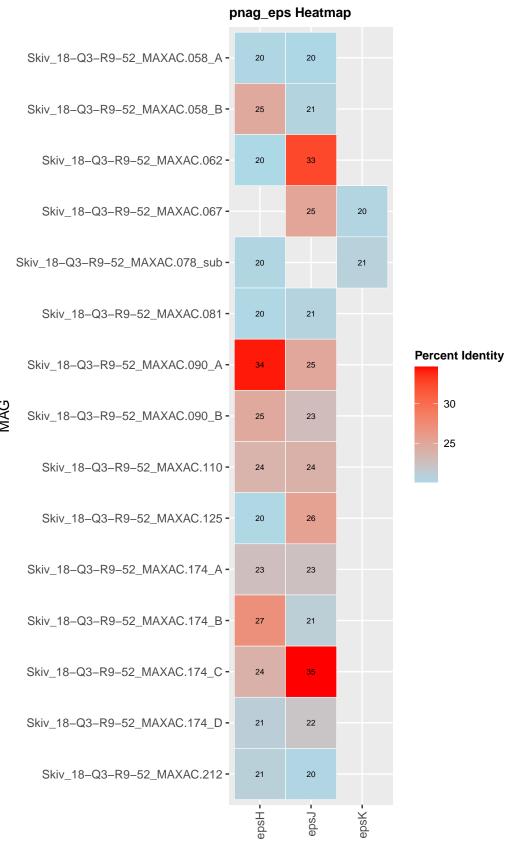


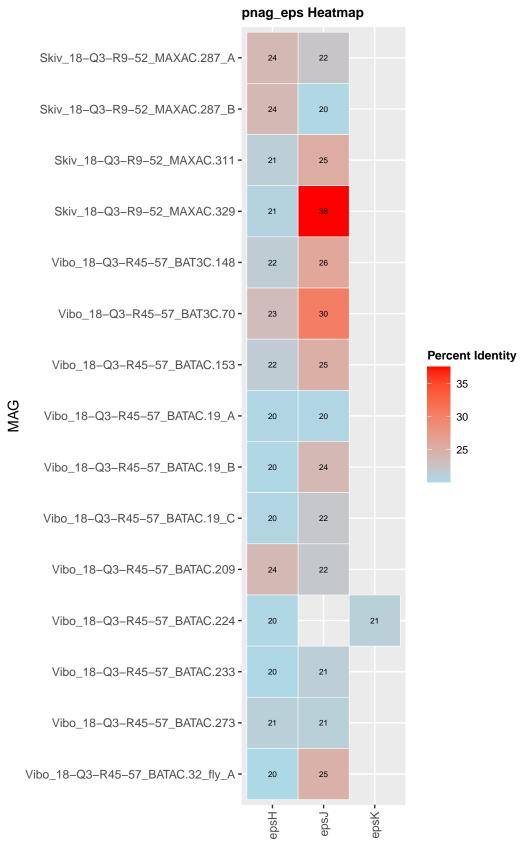


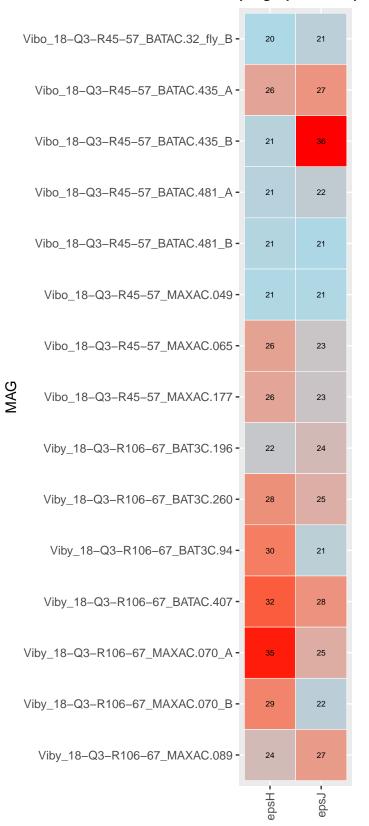
MAG

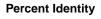


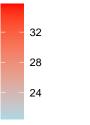


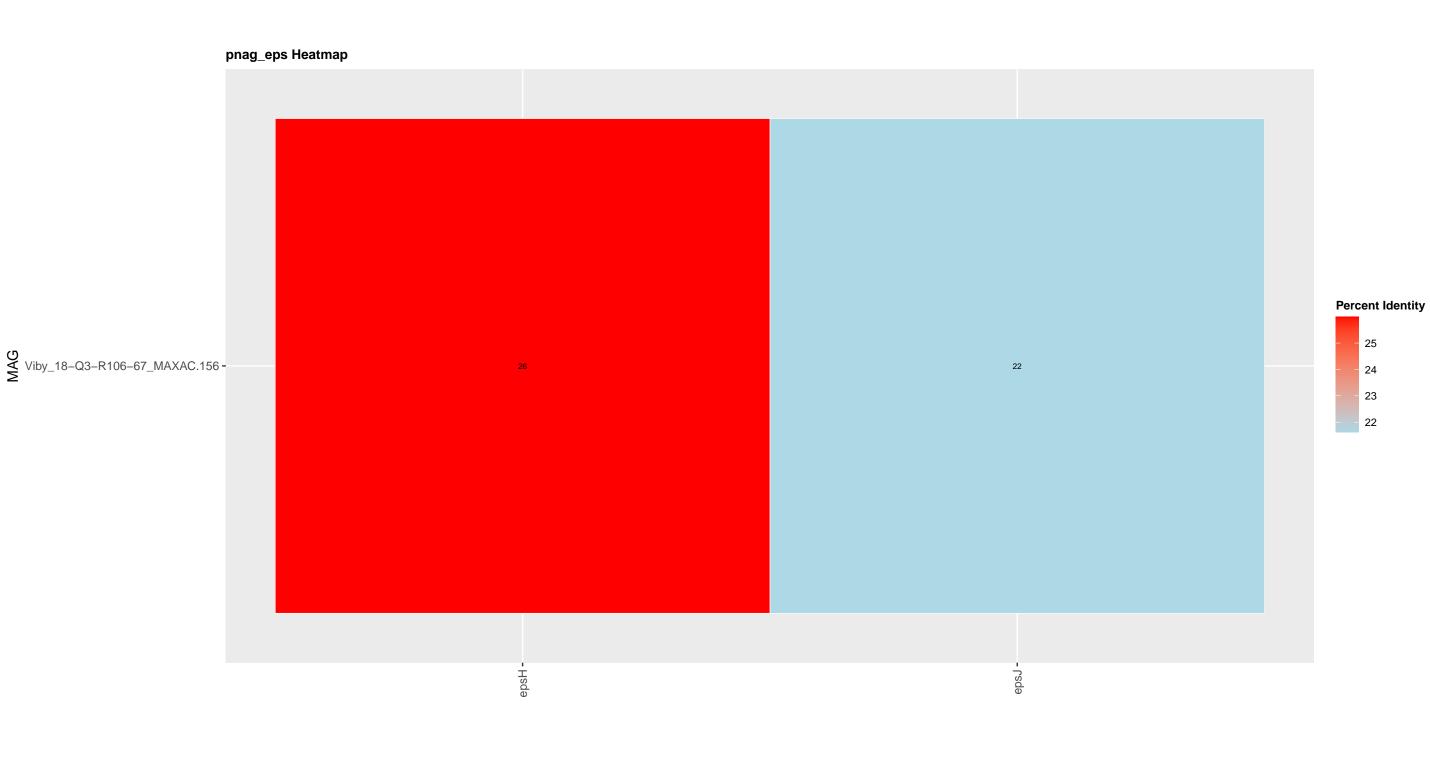


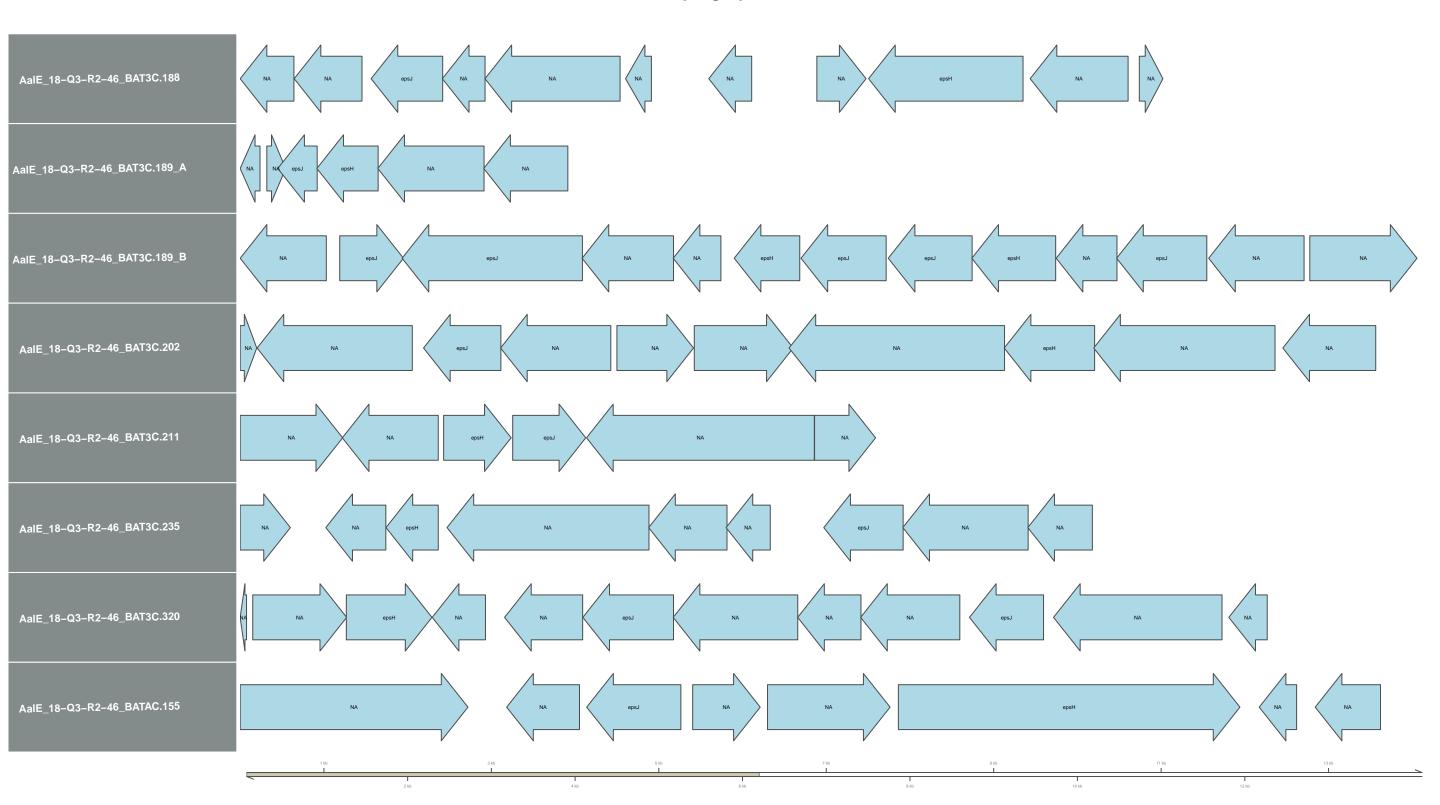


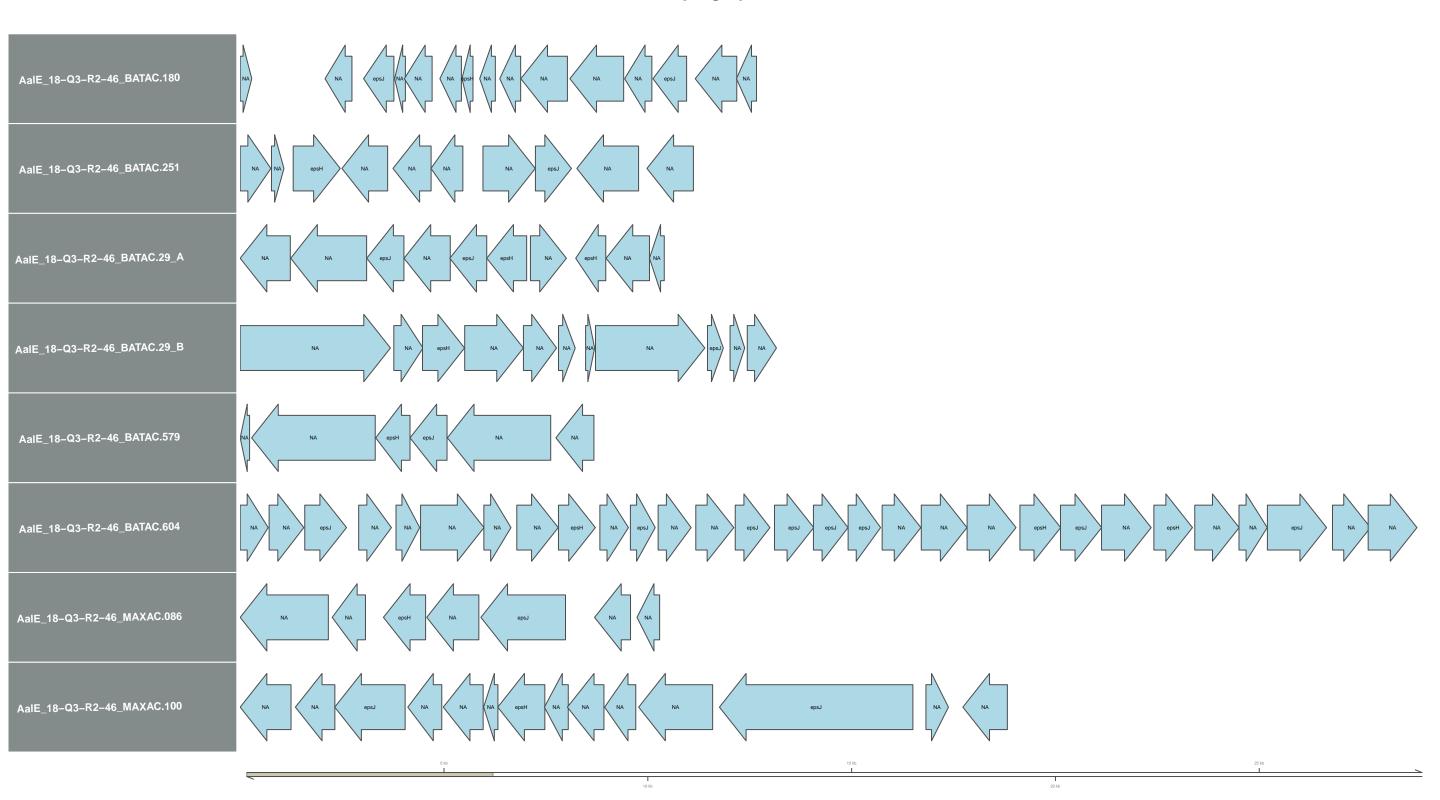


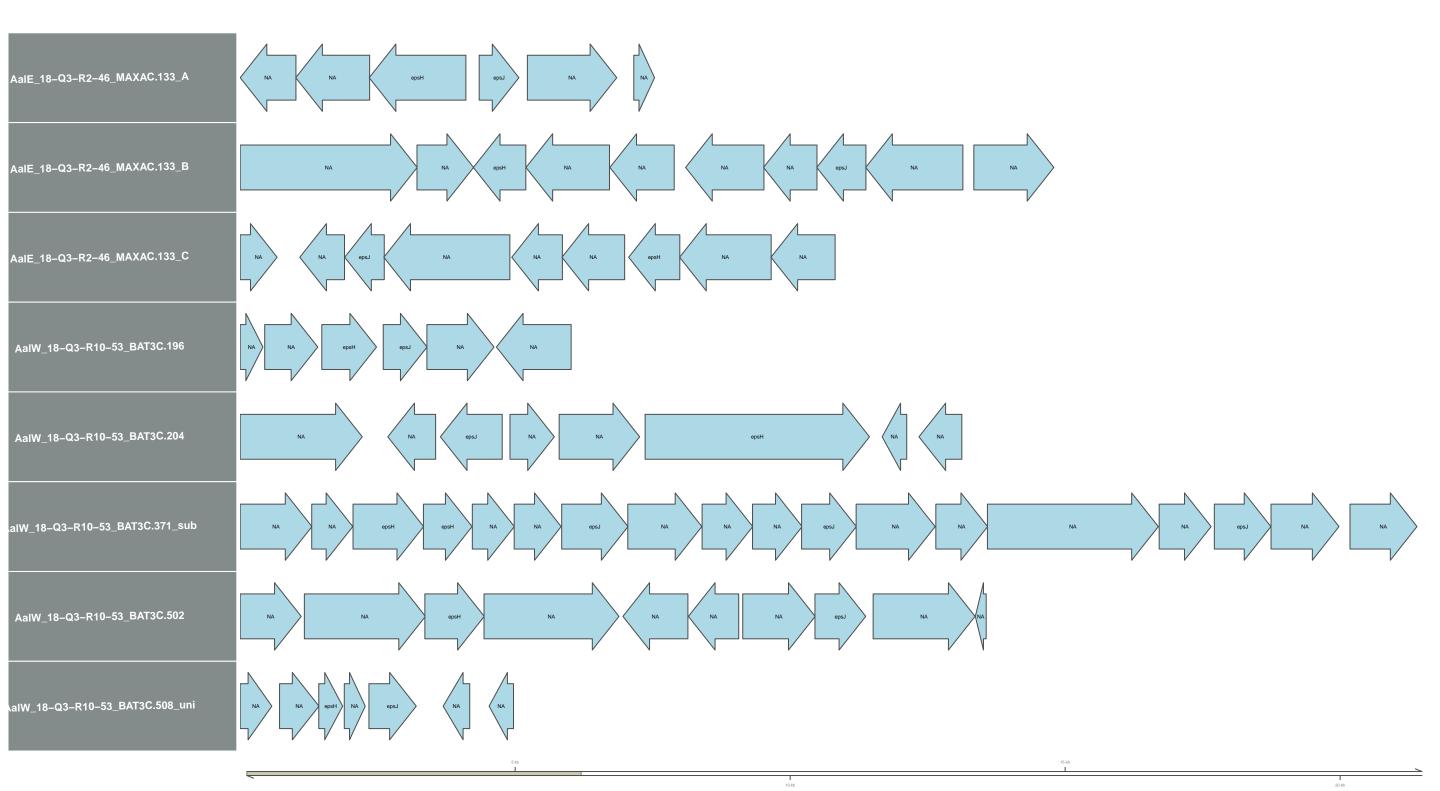


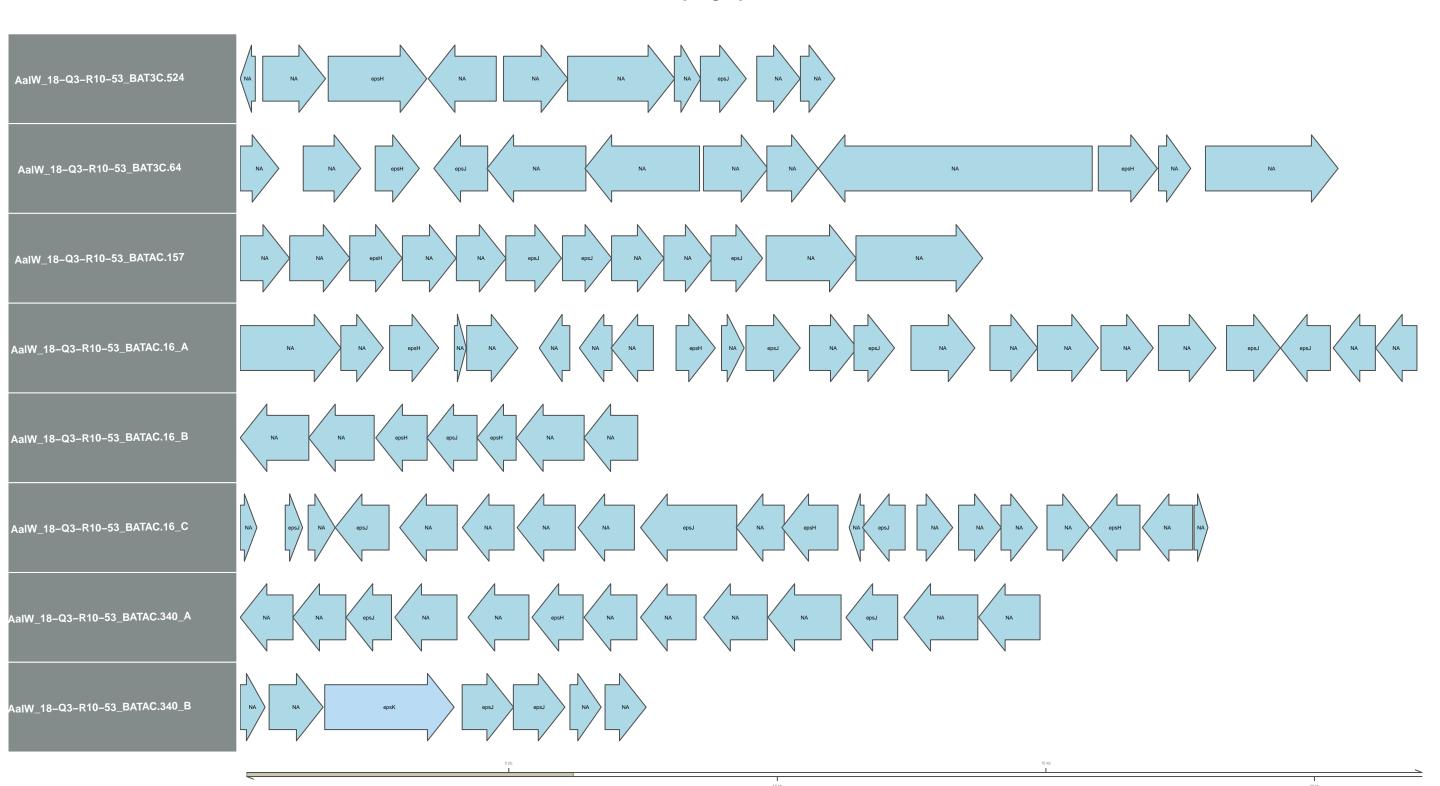


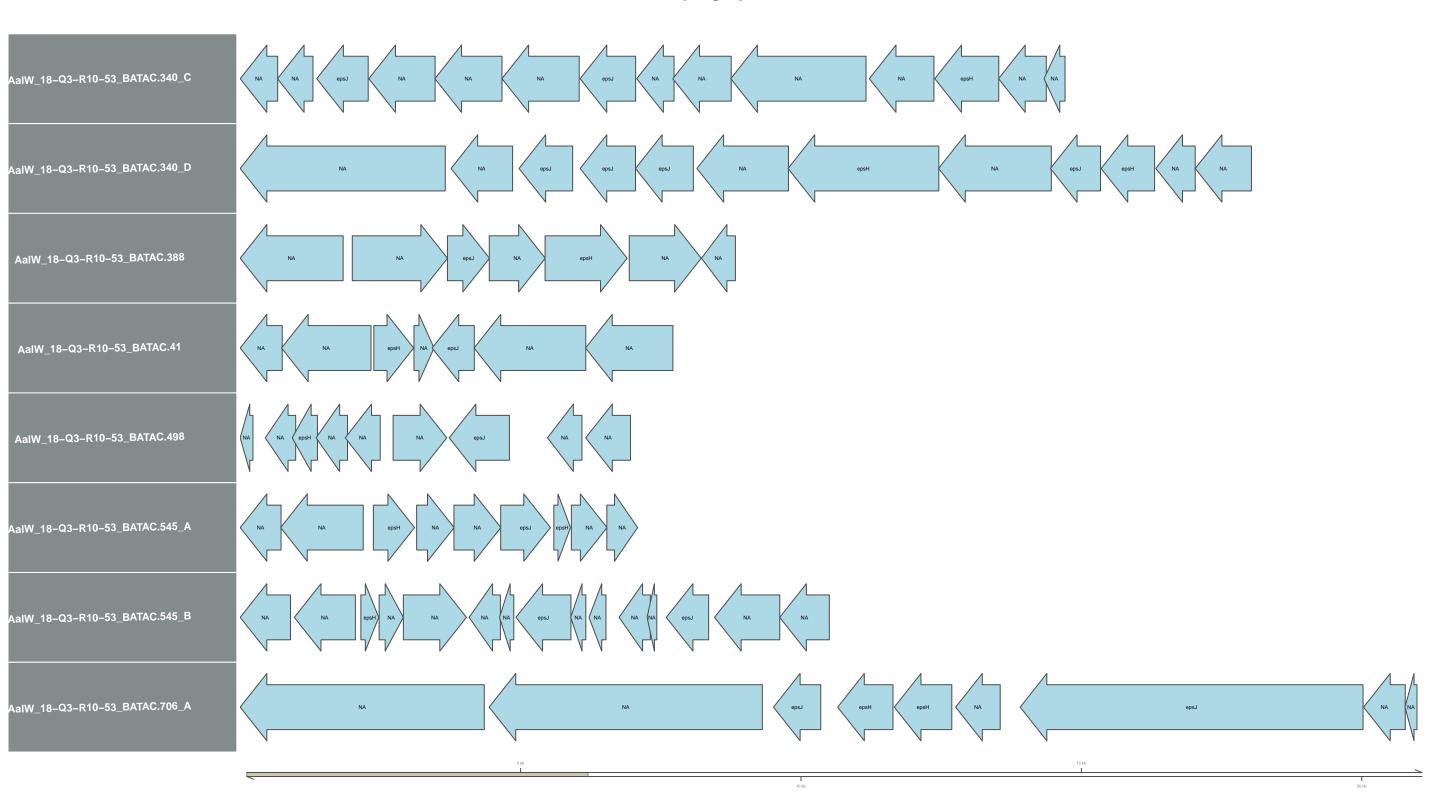


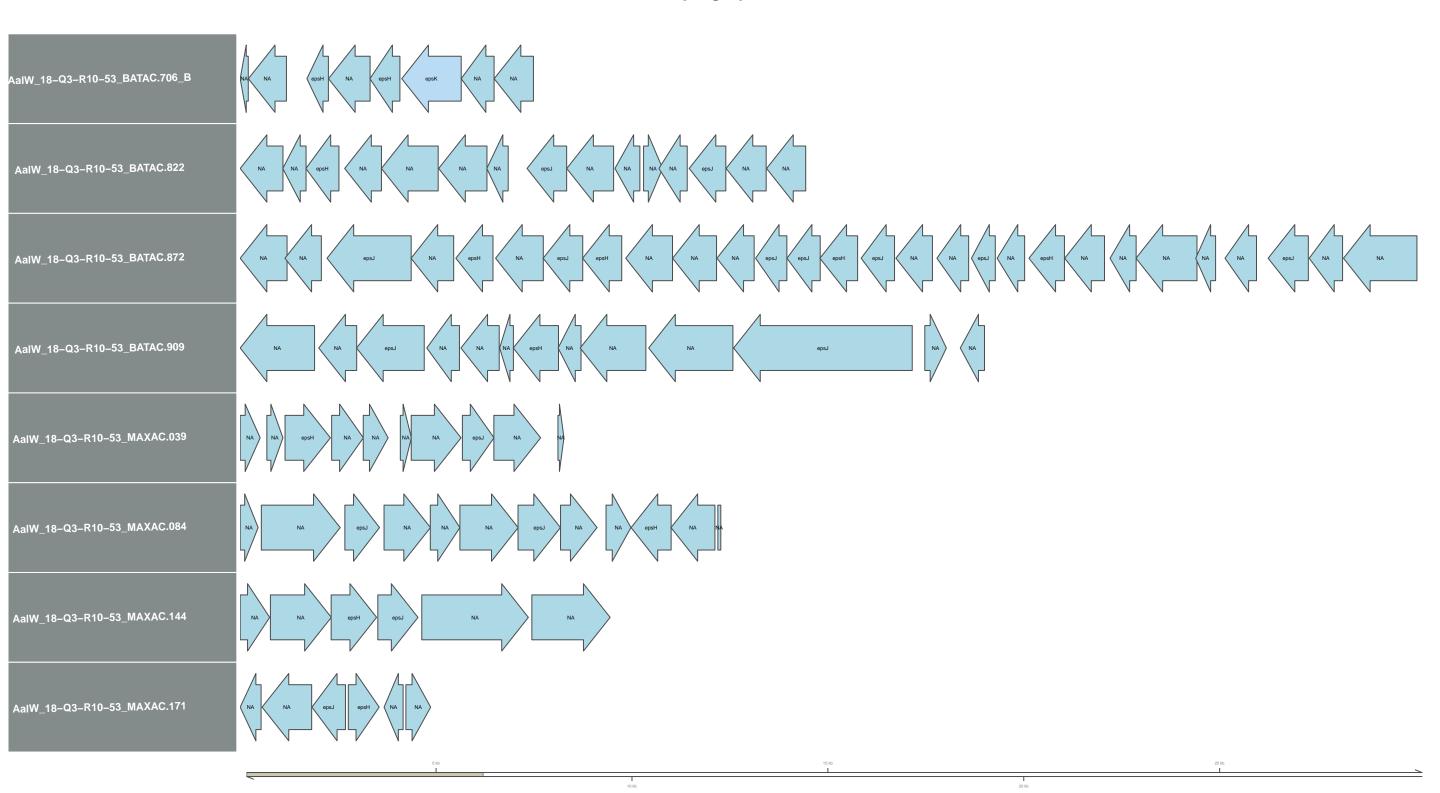


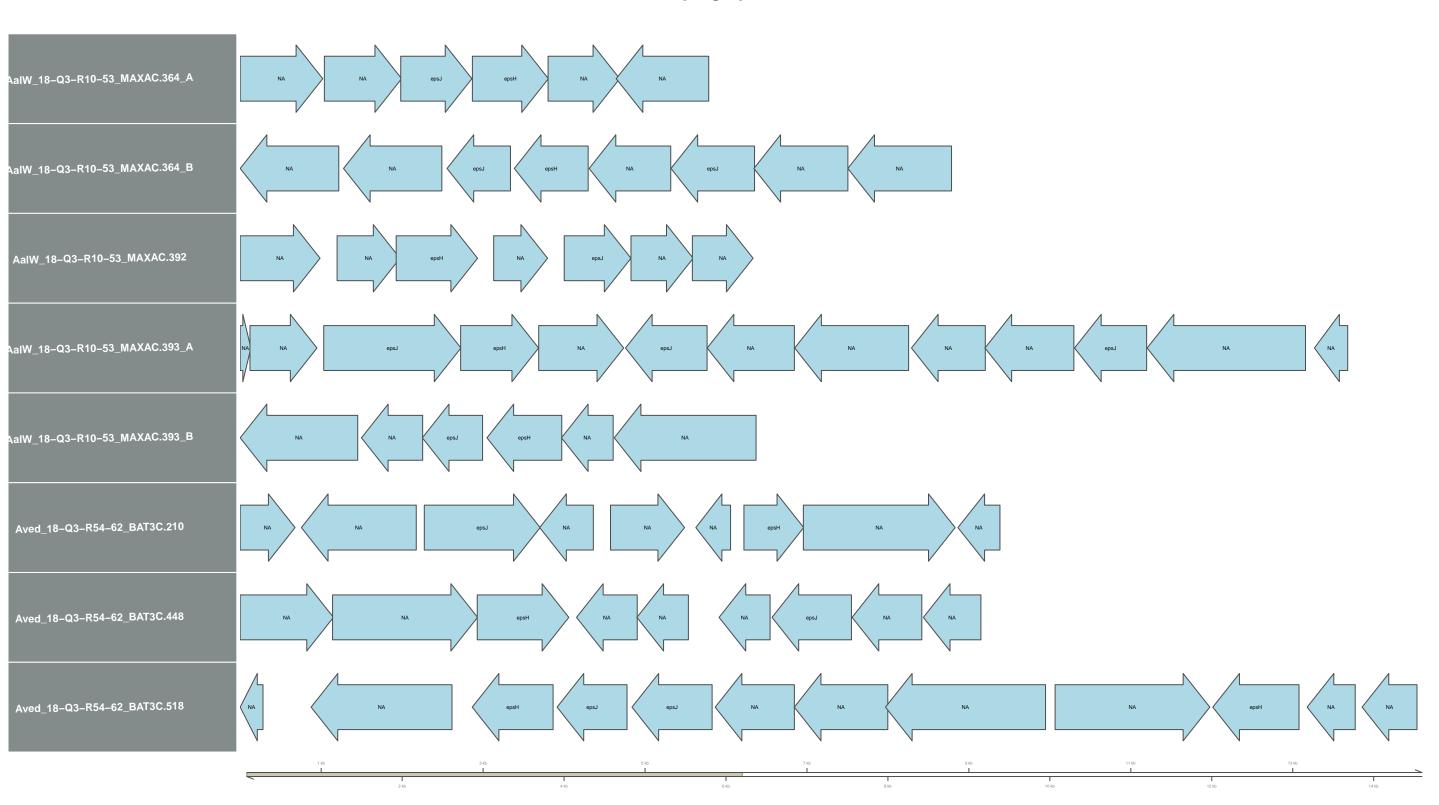


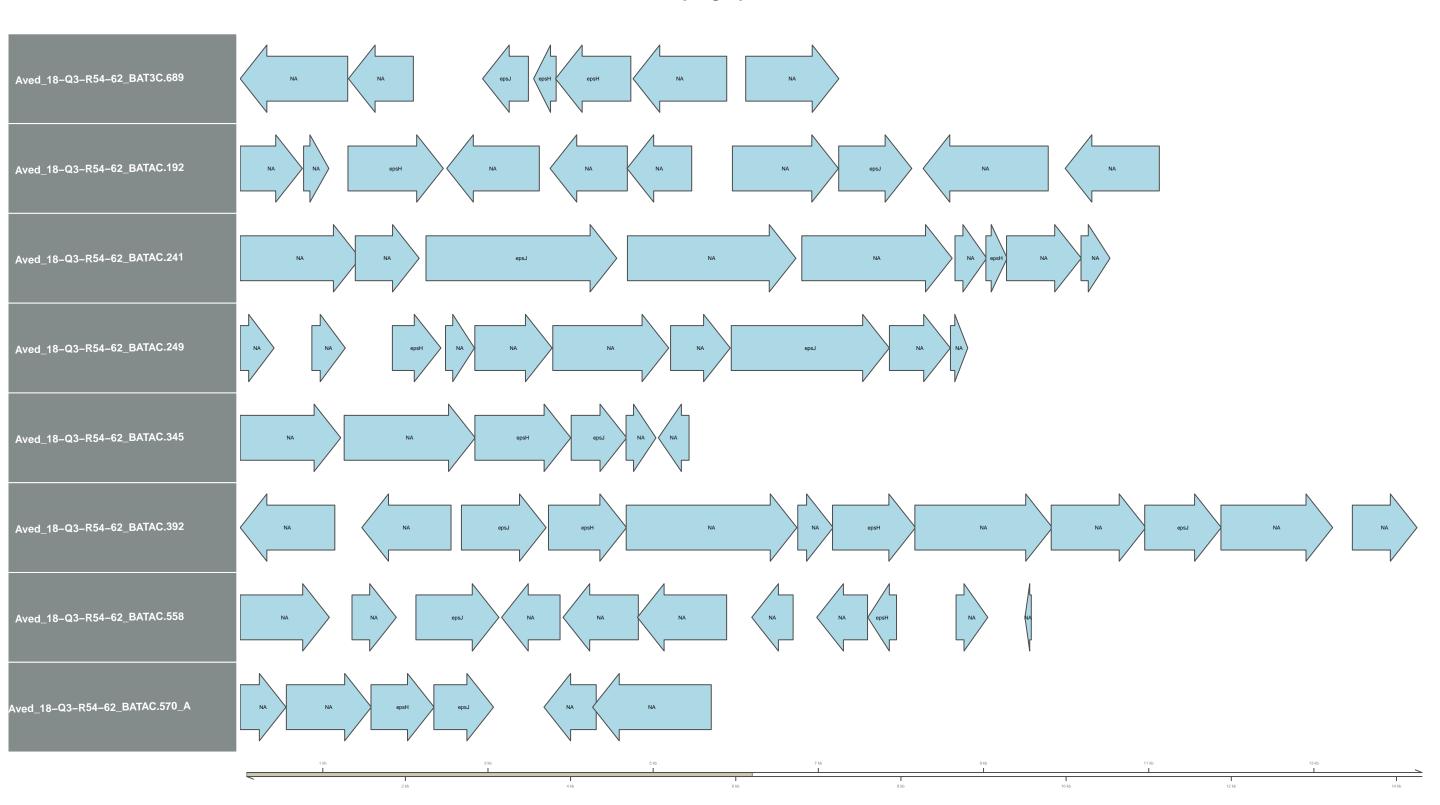


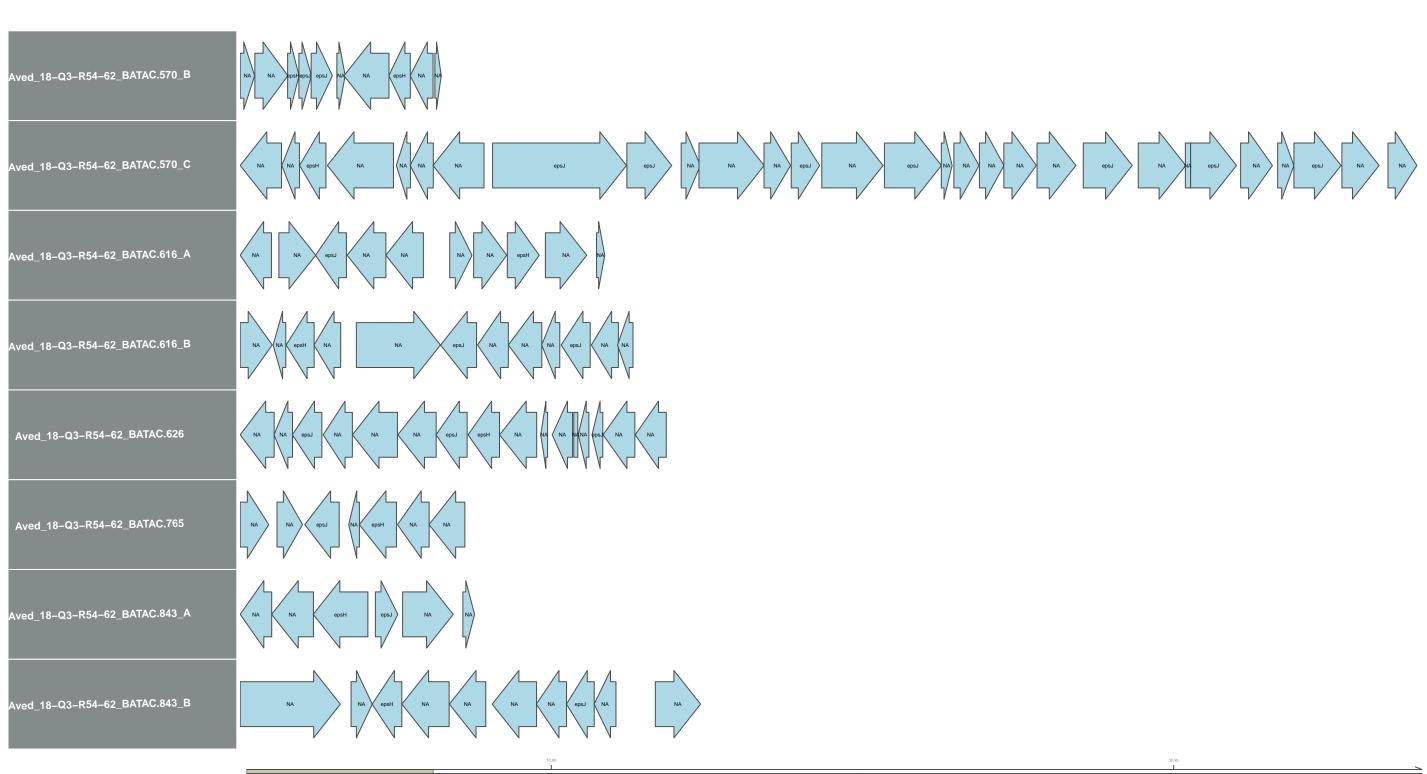




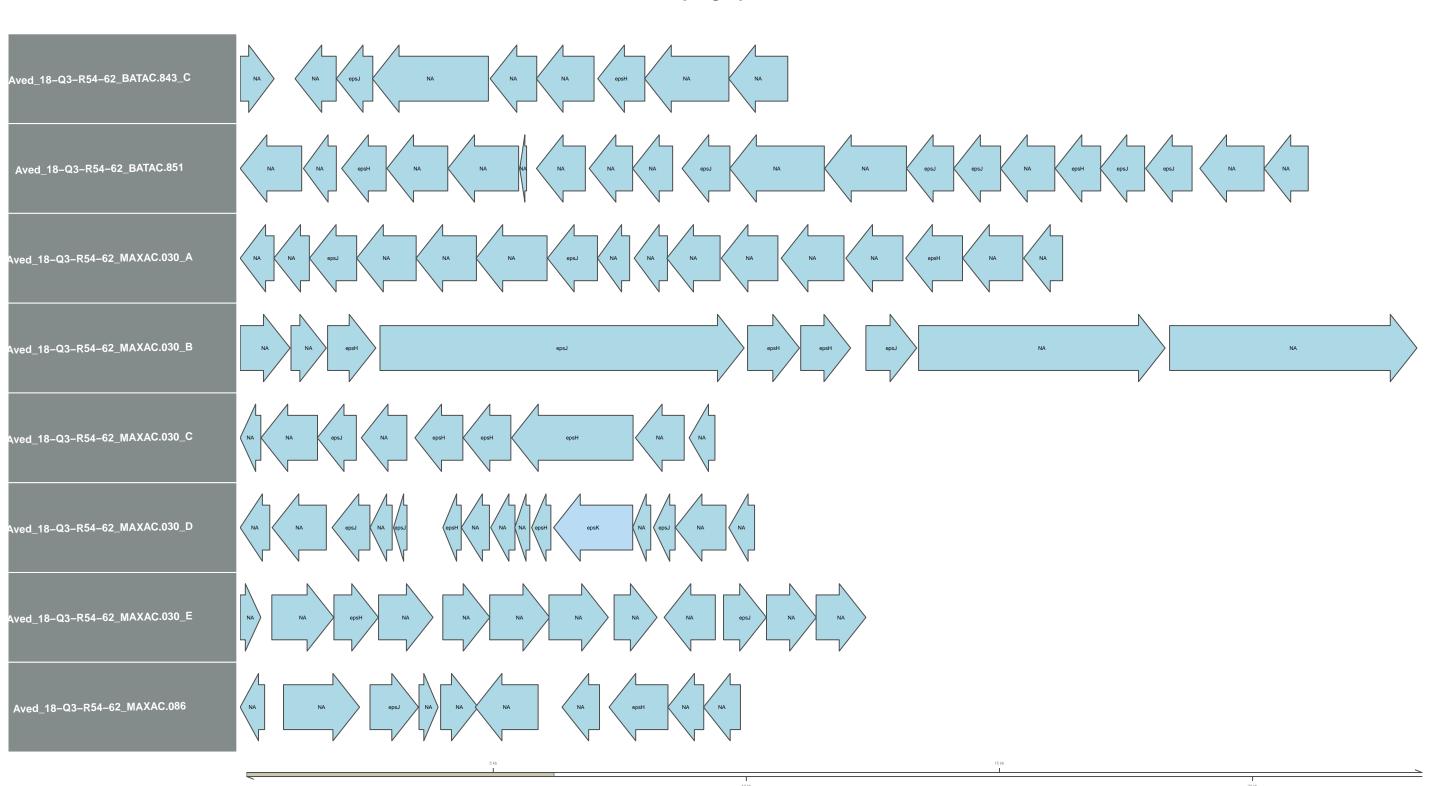


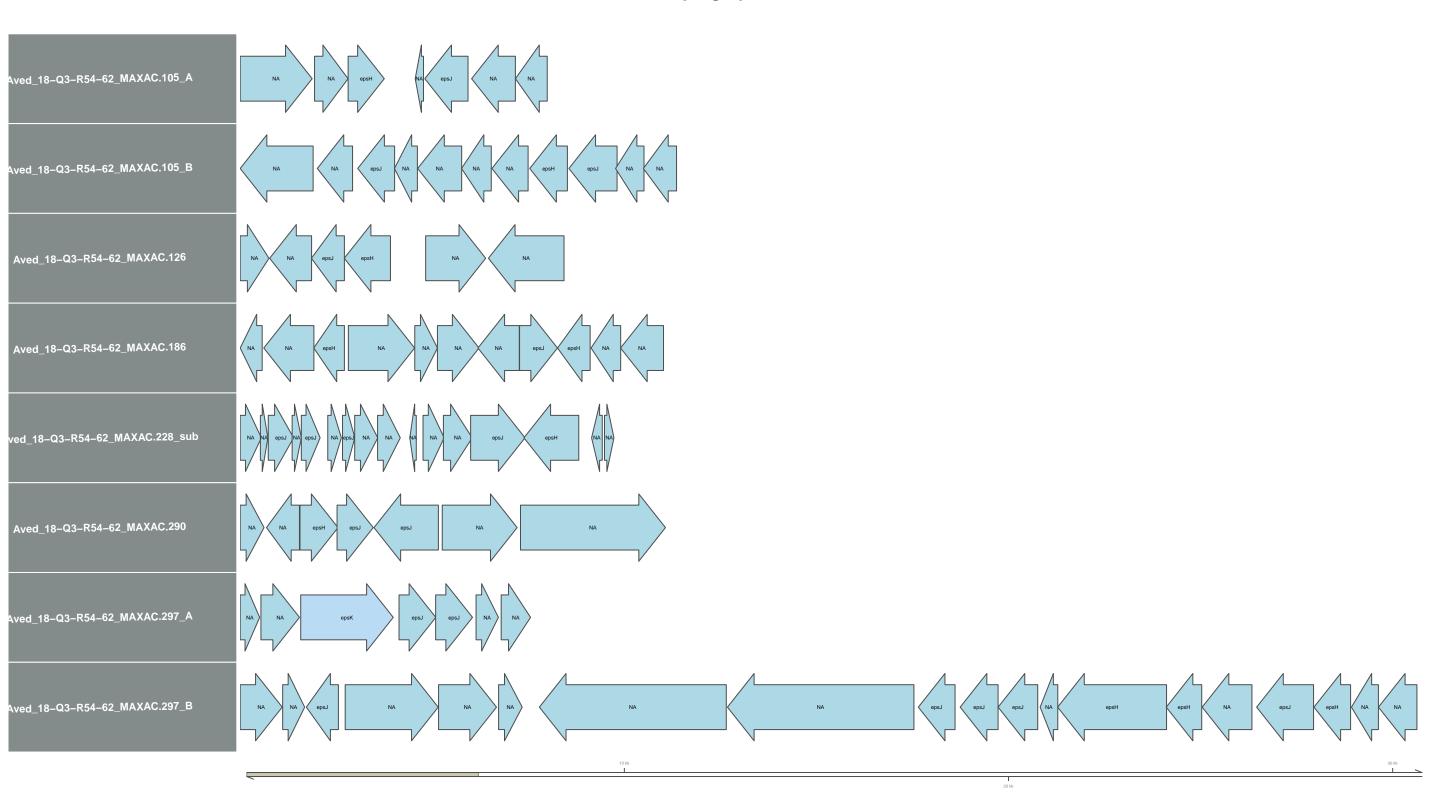


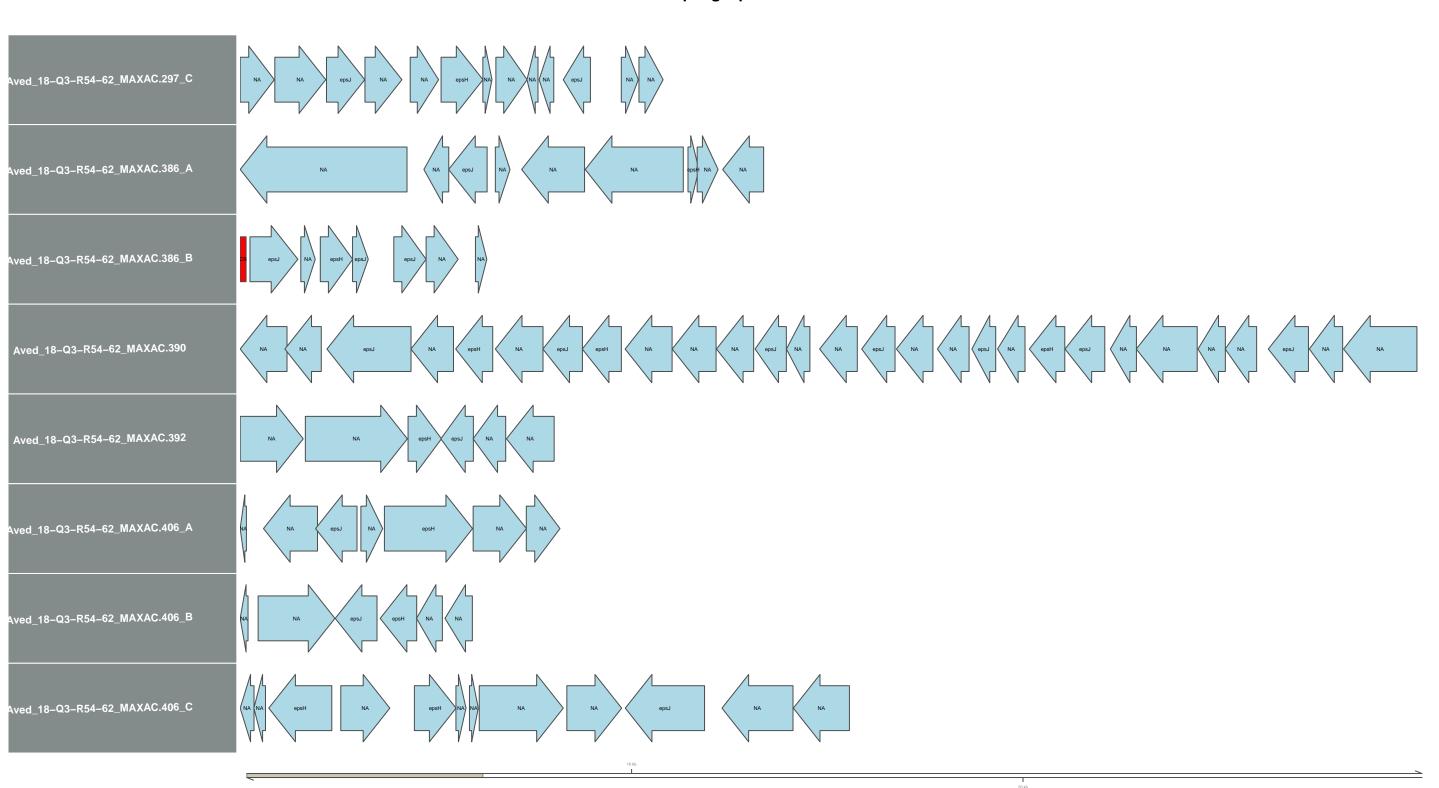


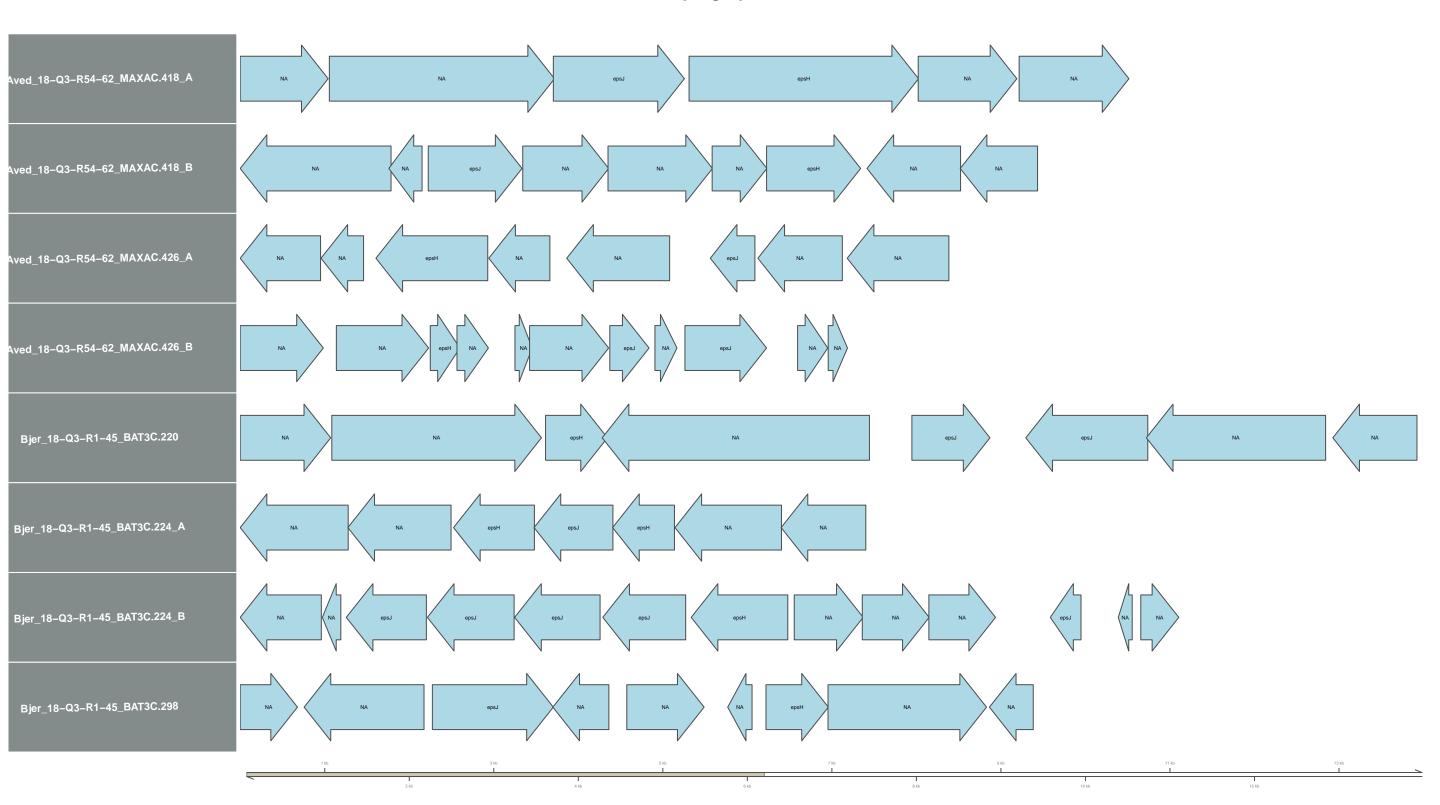


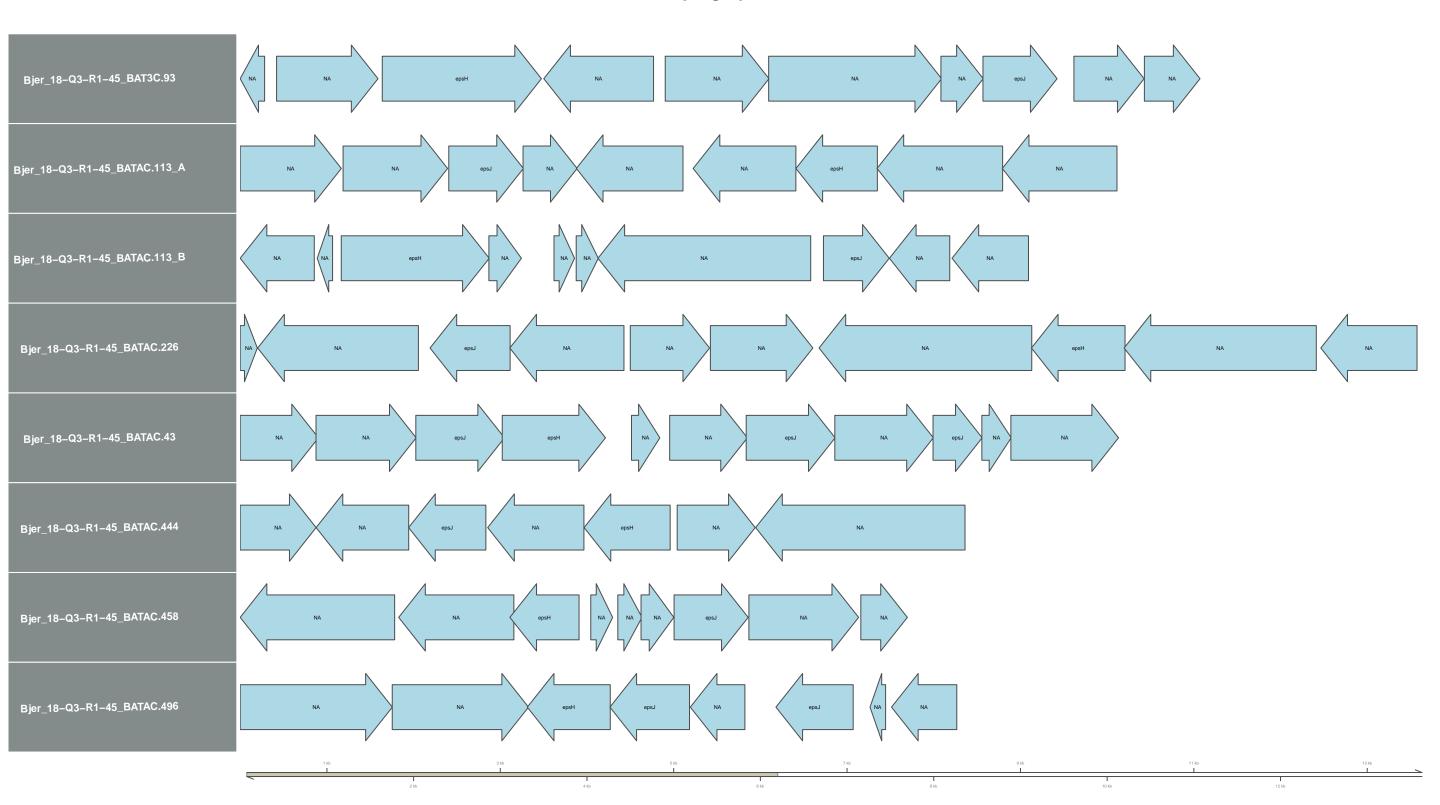
100 kilo

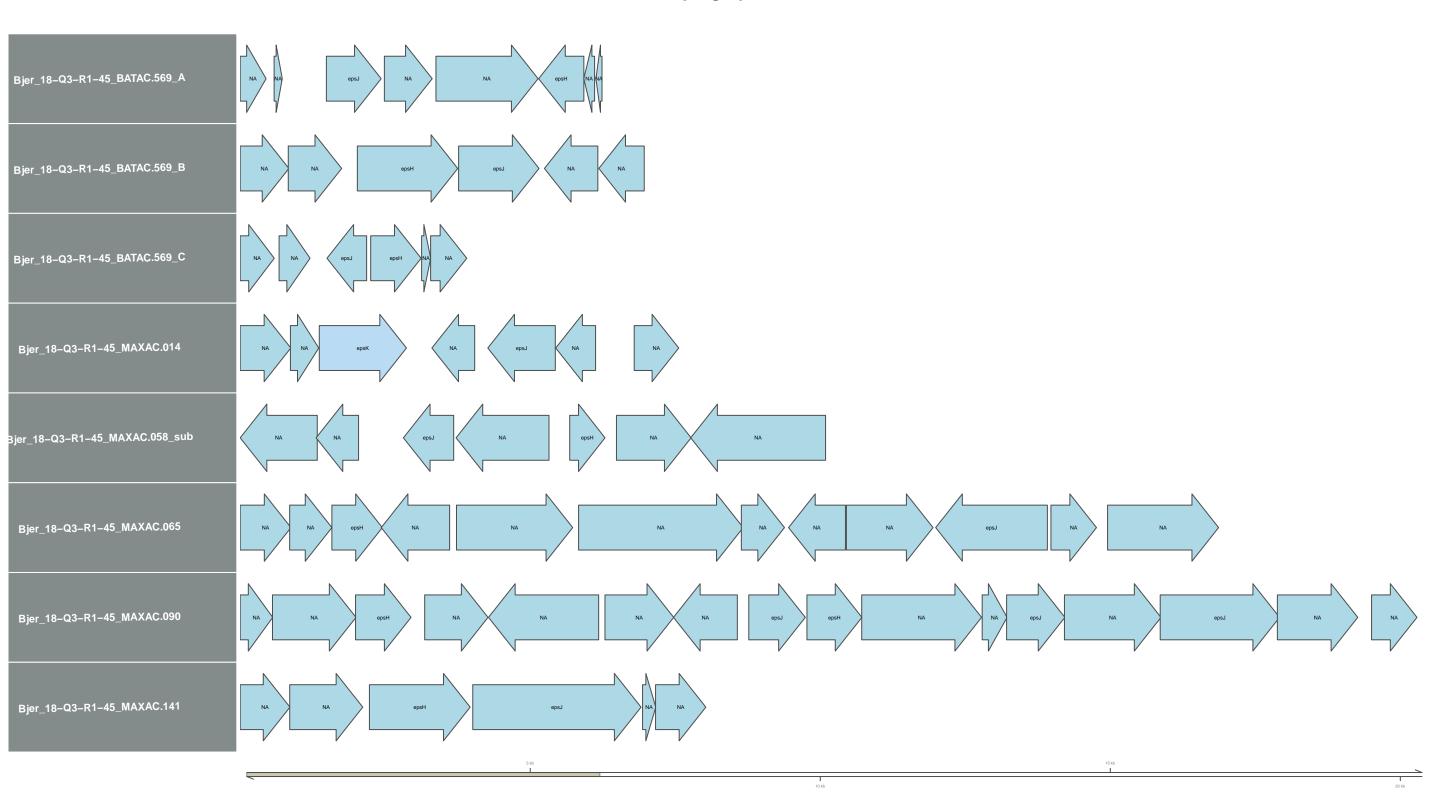


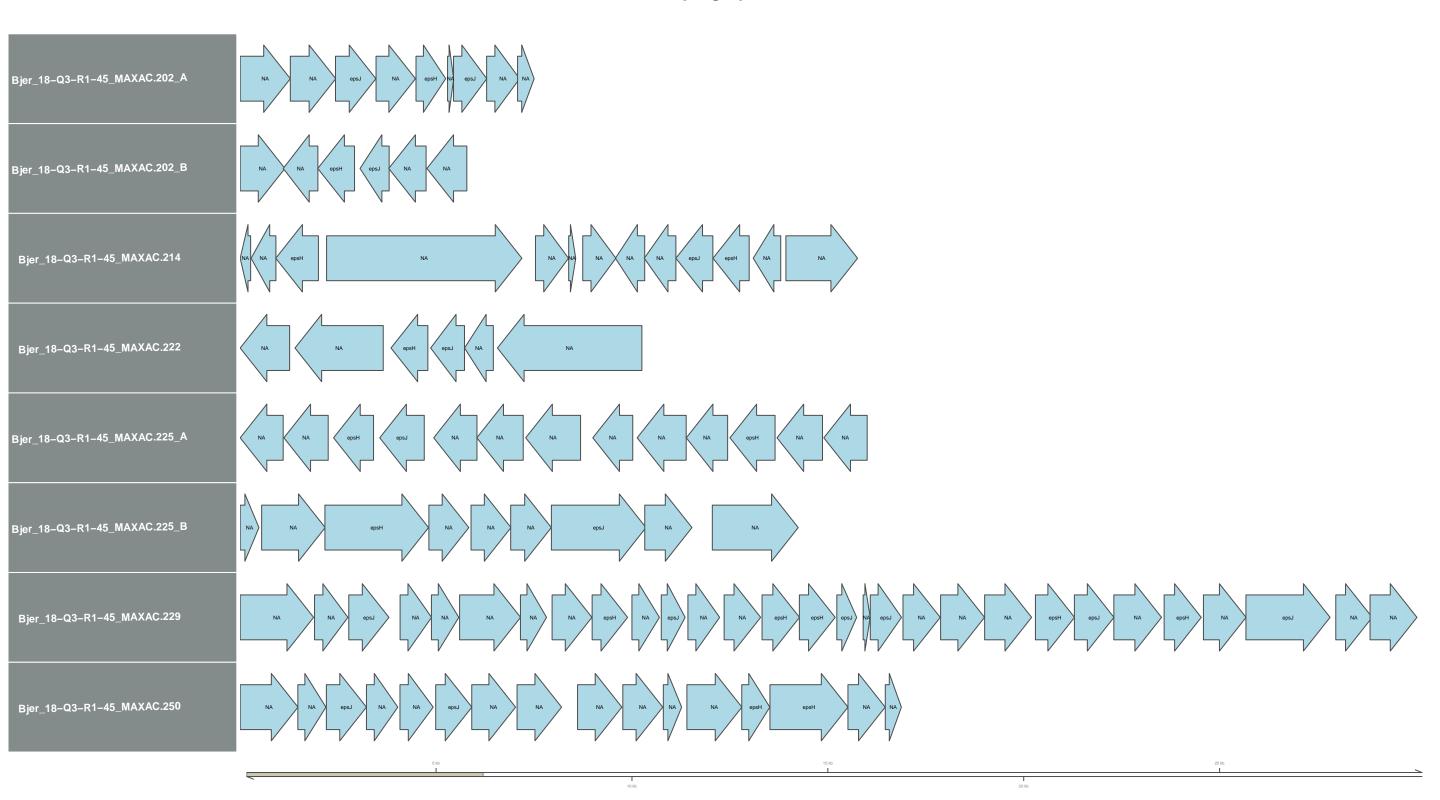


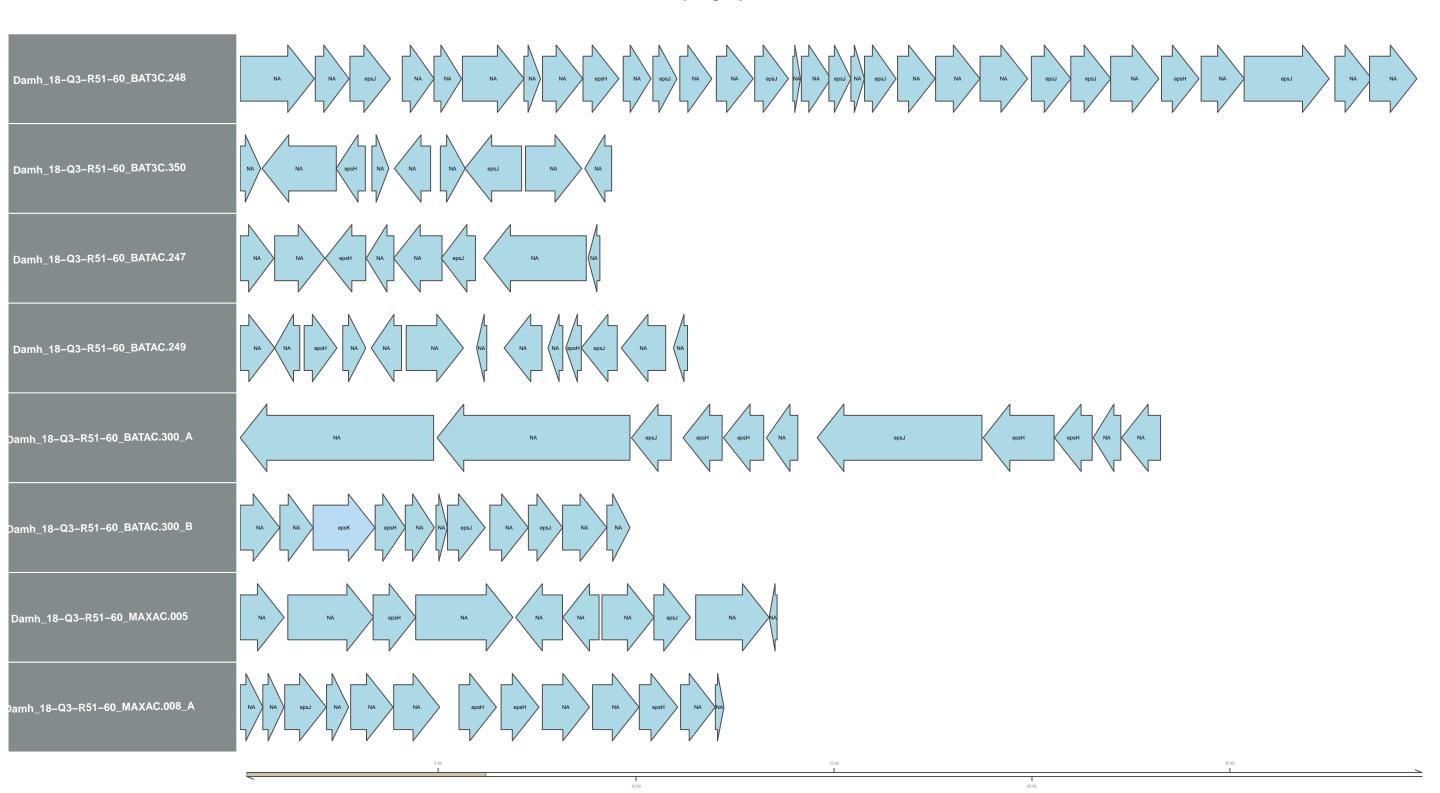


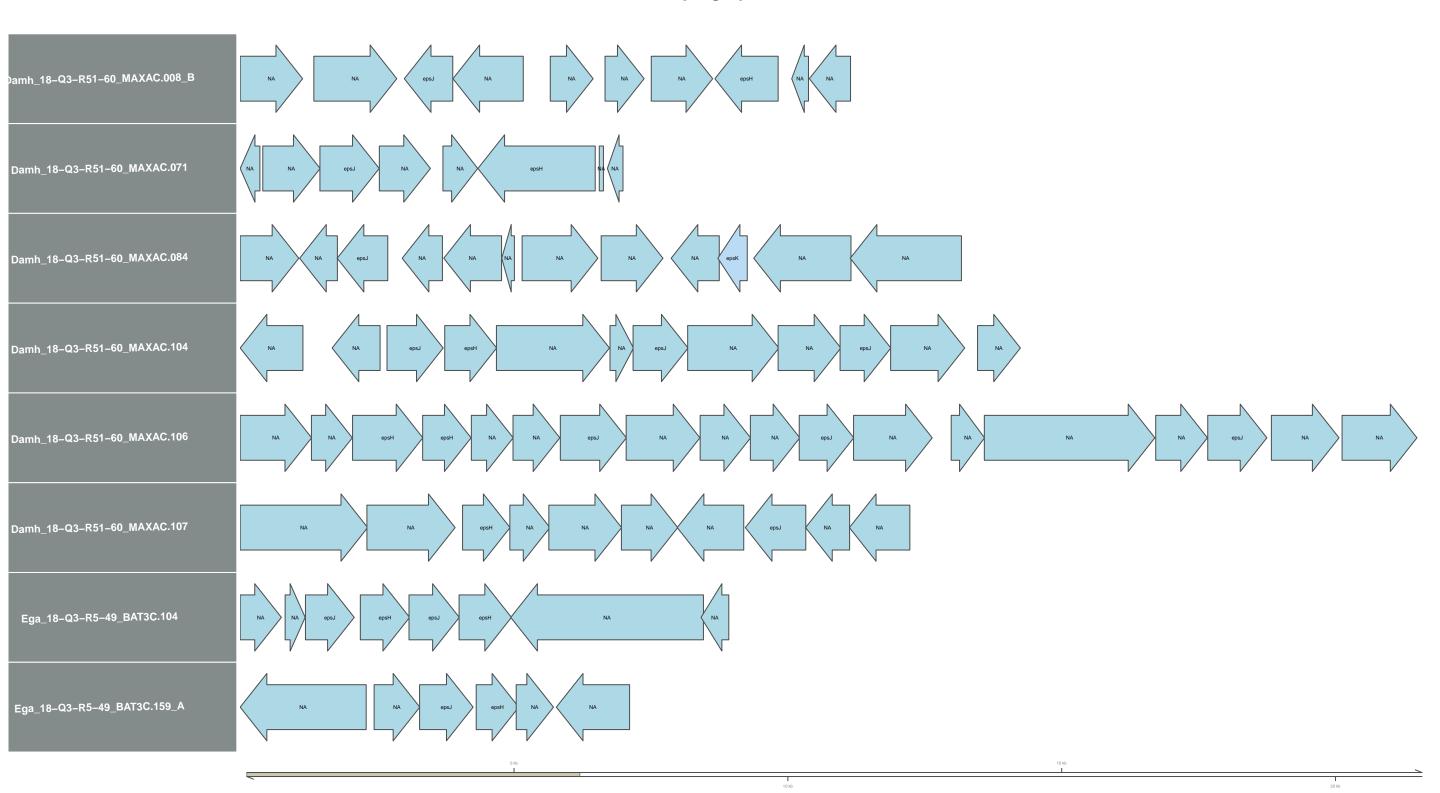


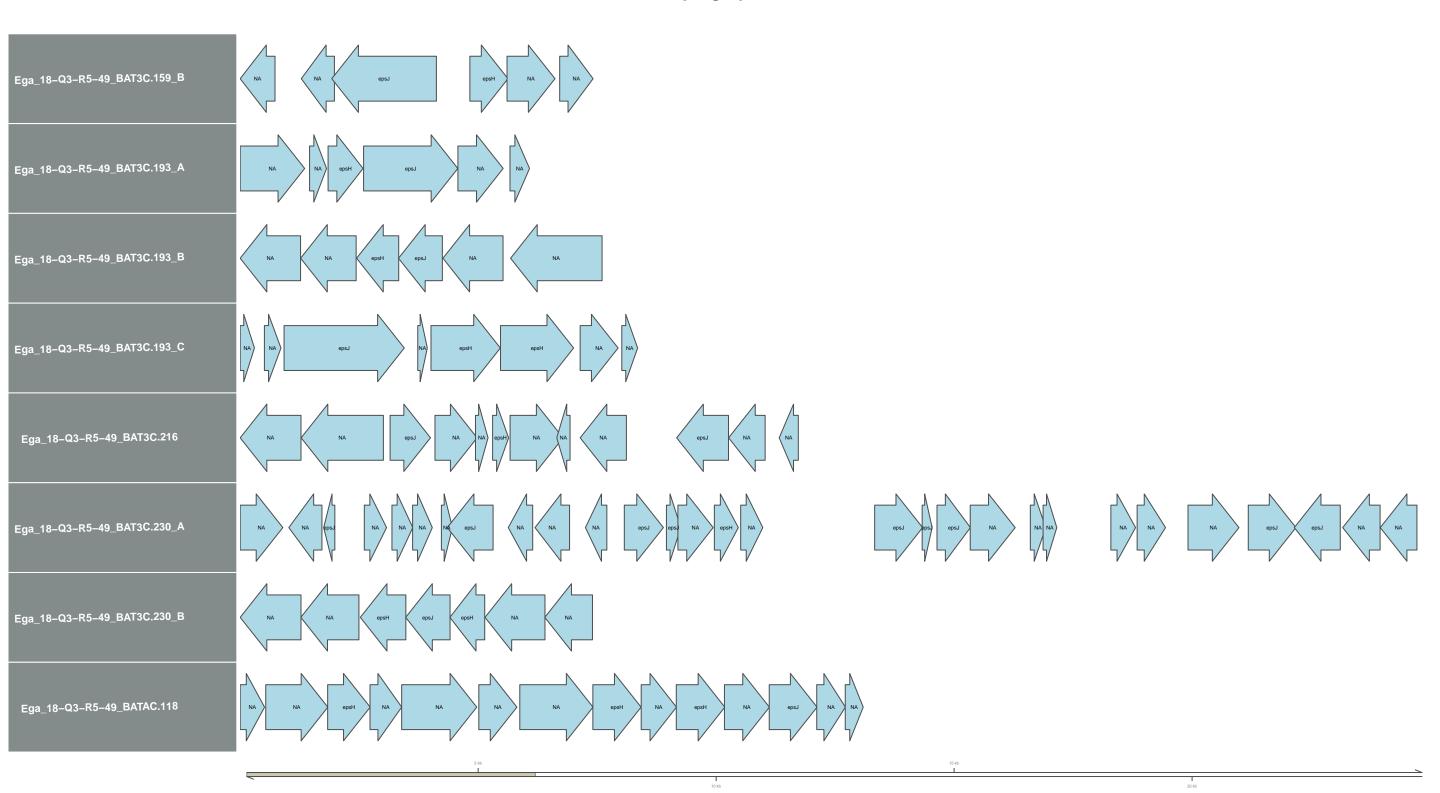


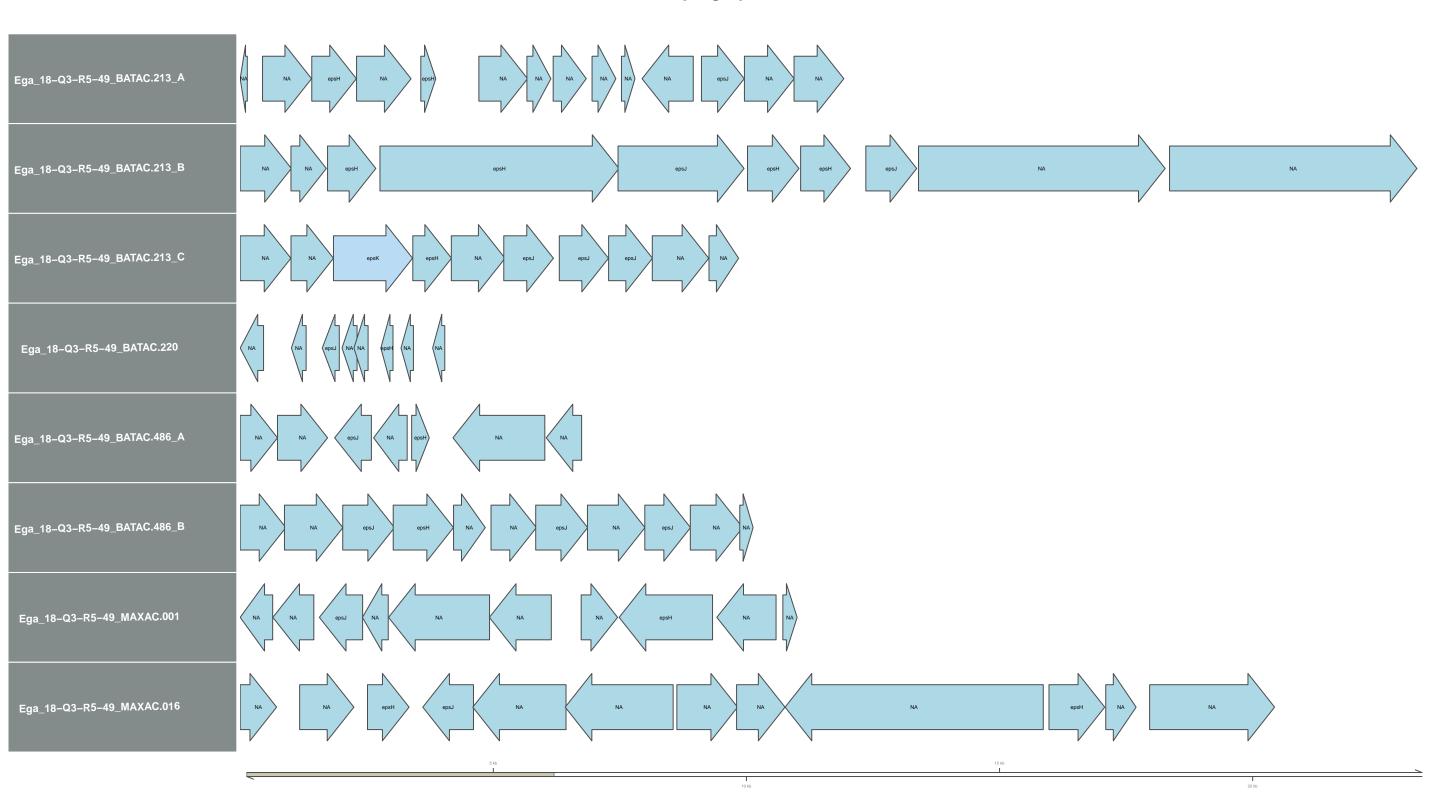


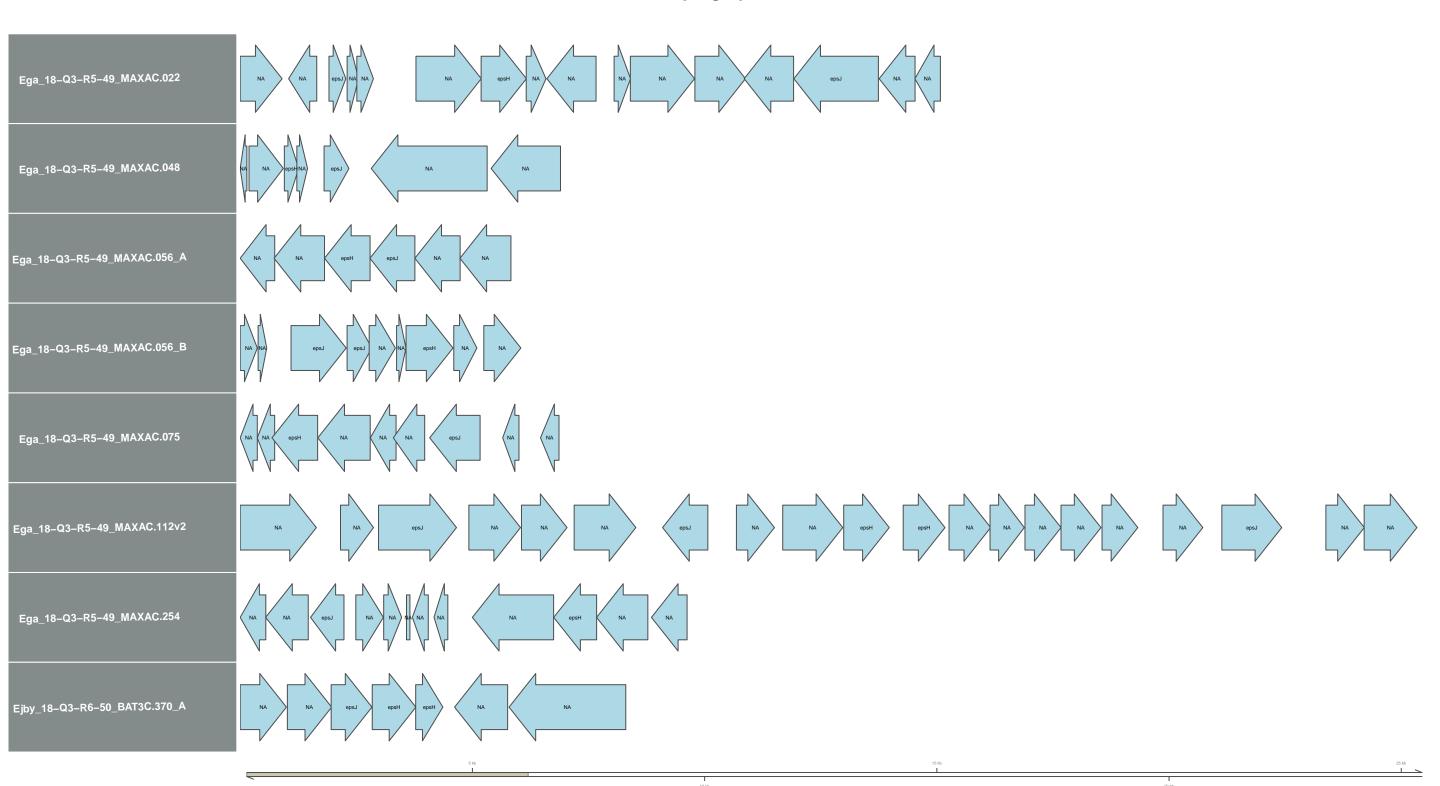


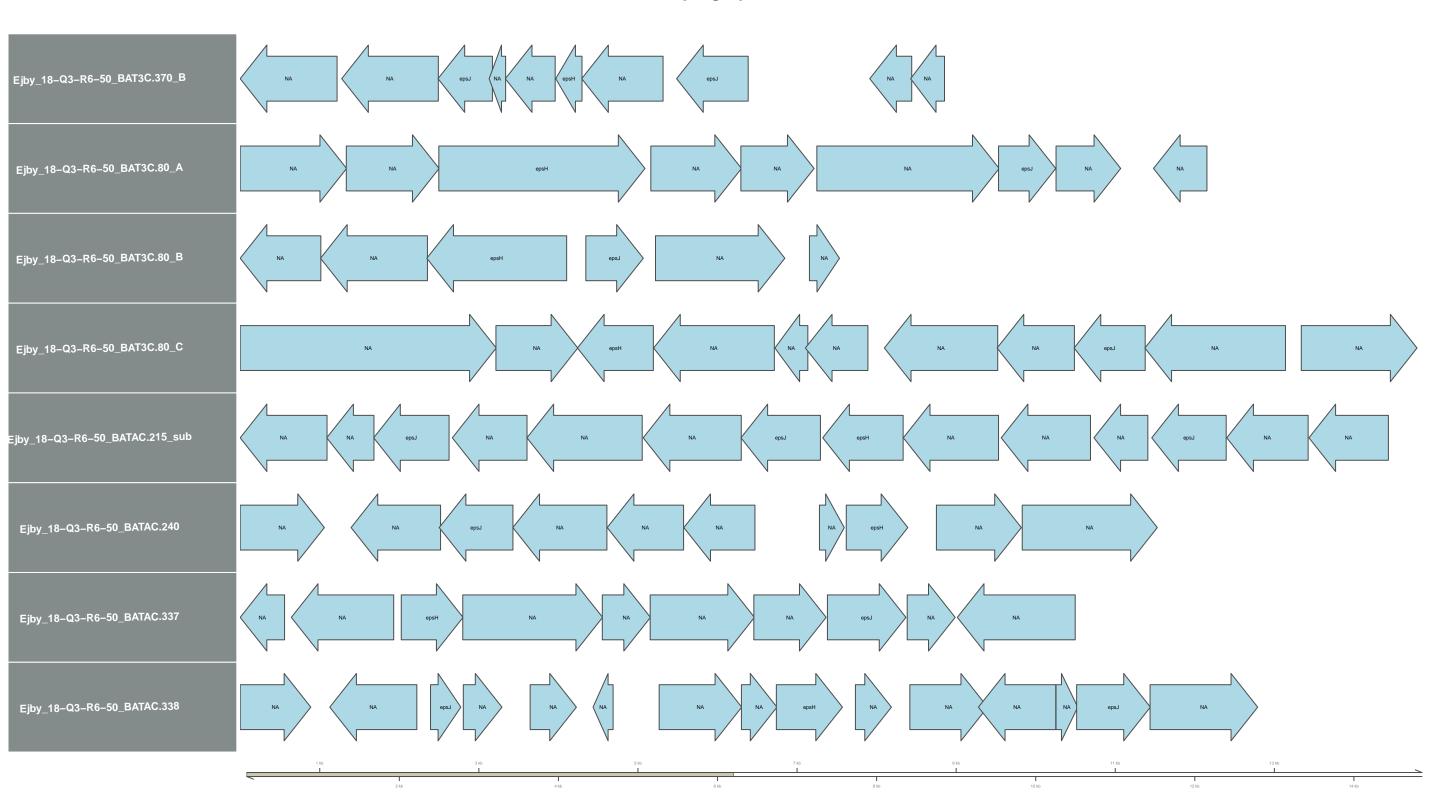


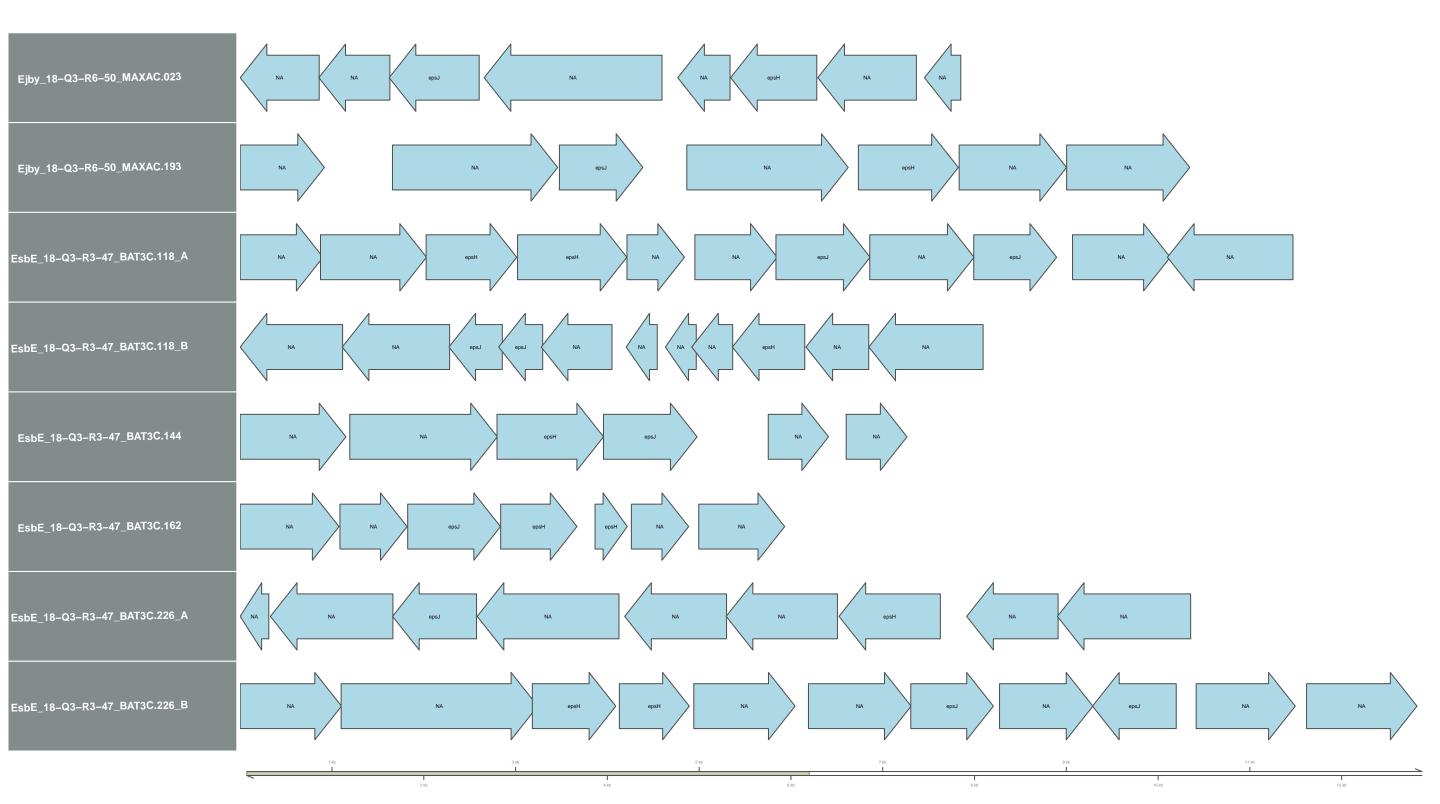


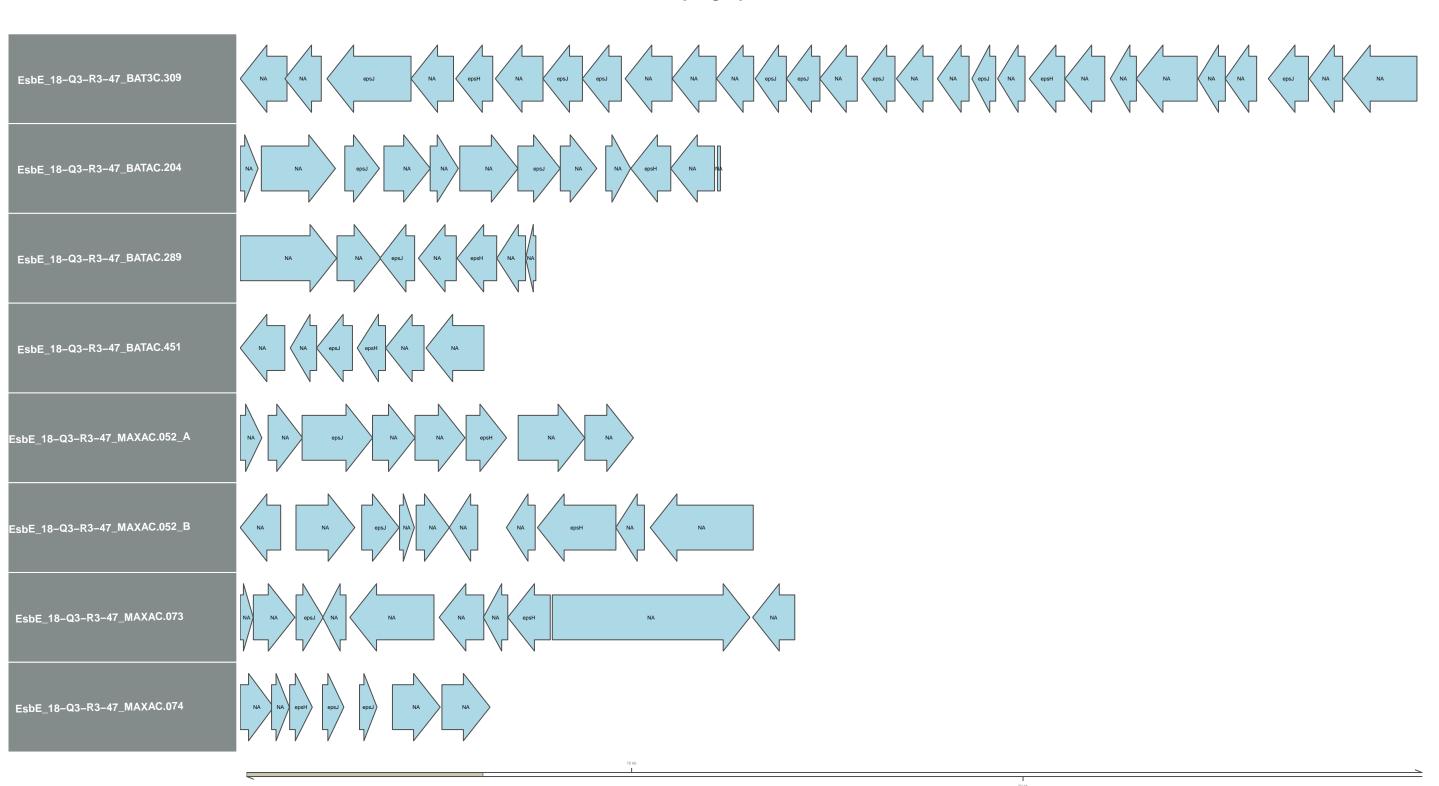


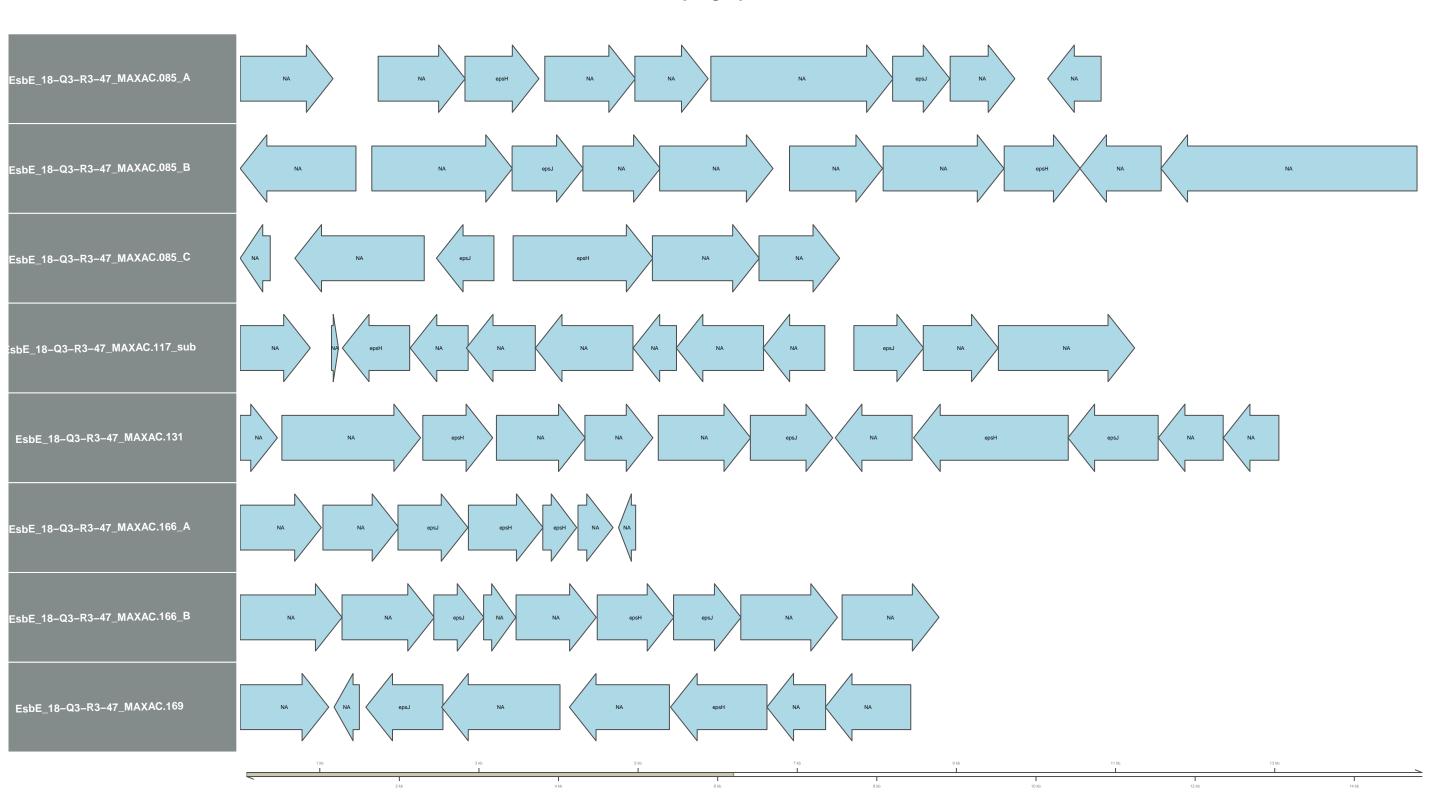


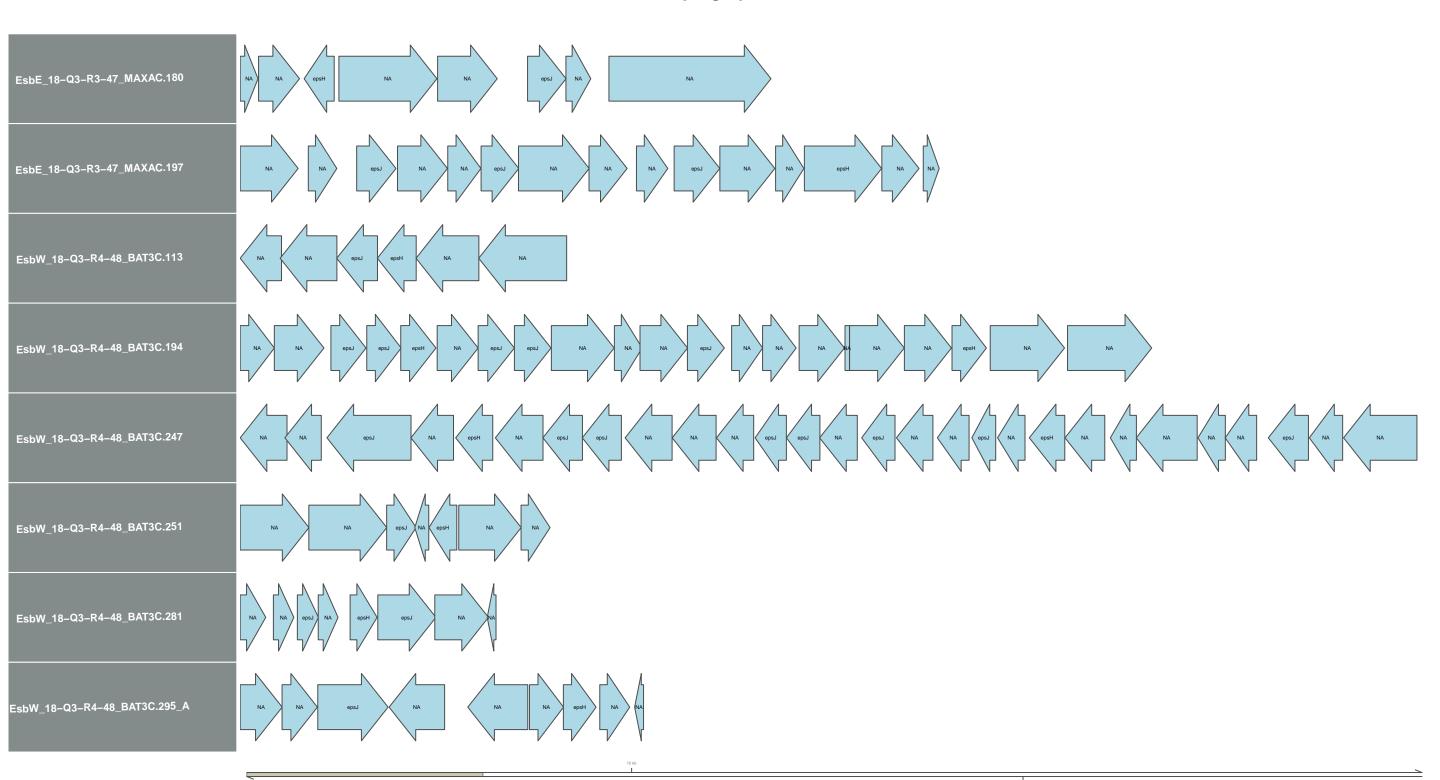


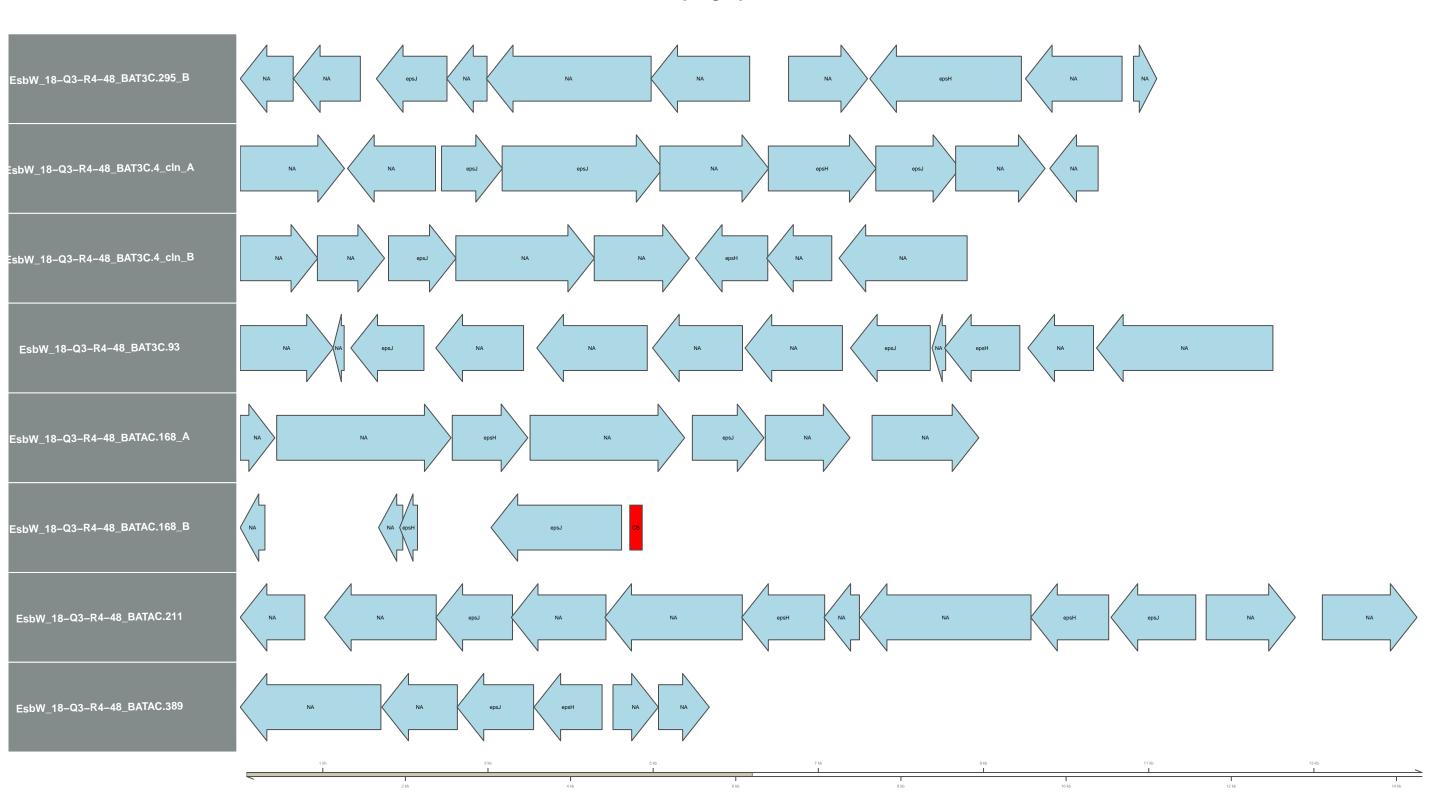


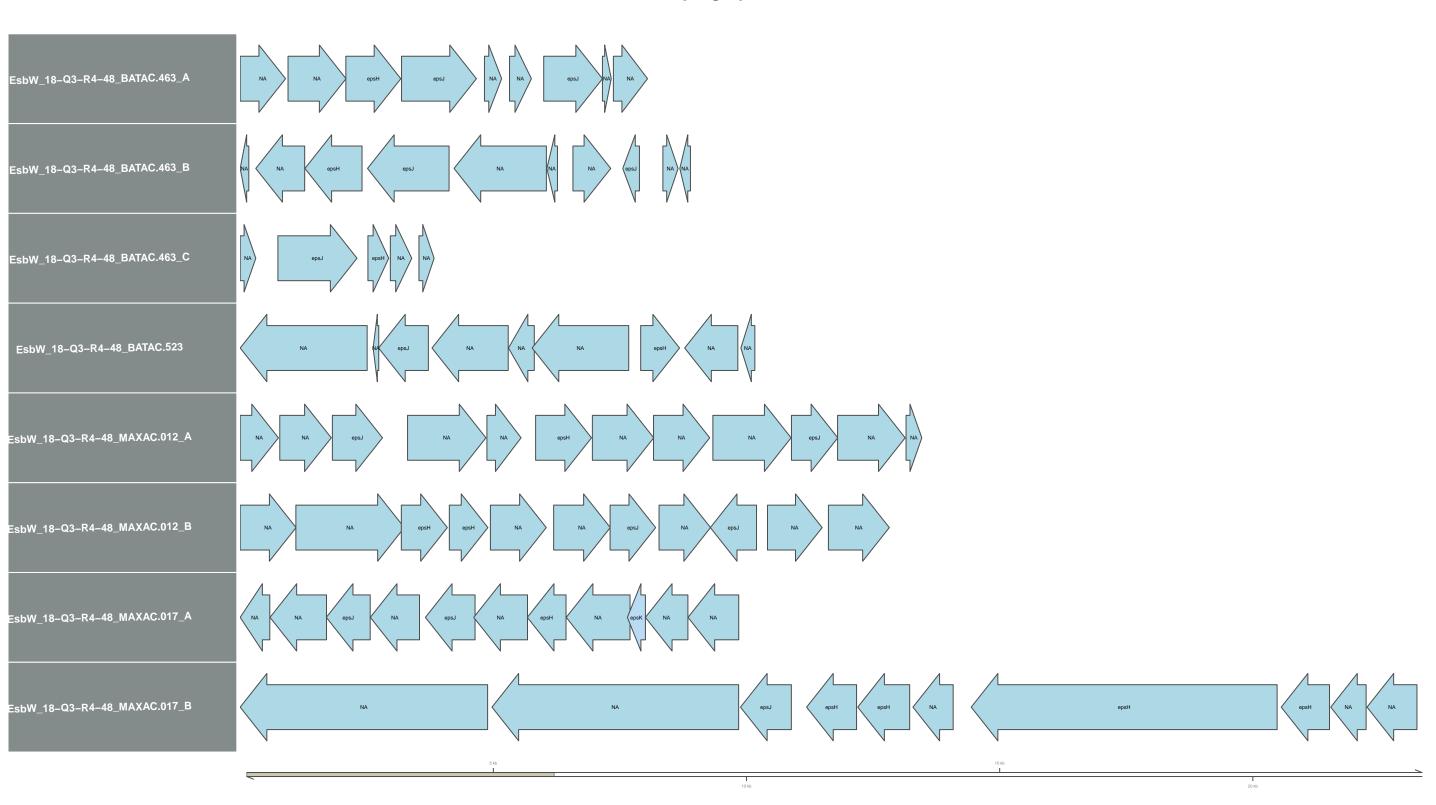


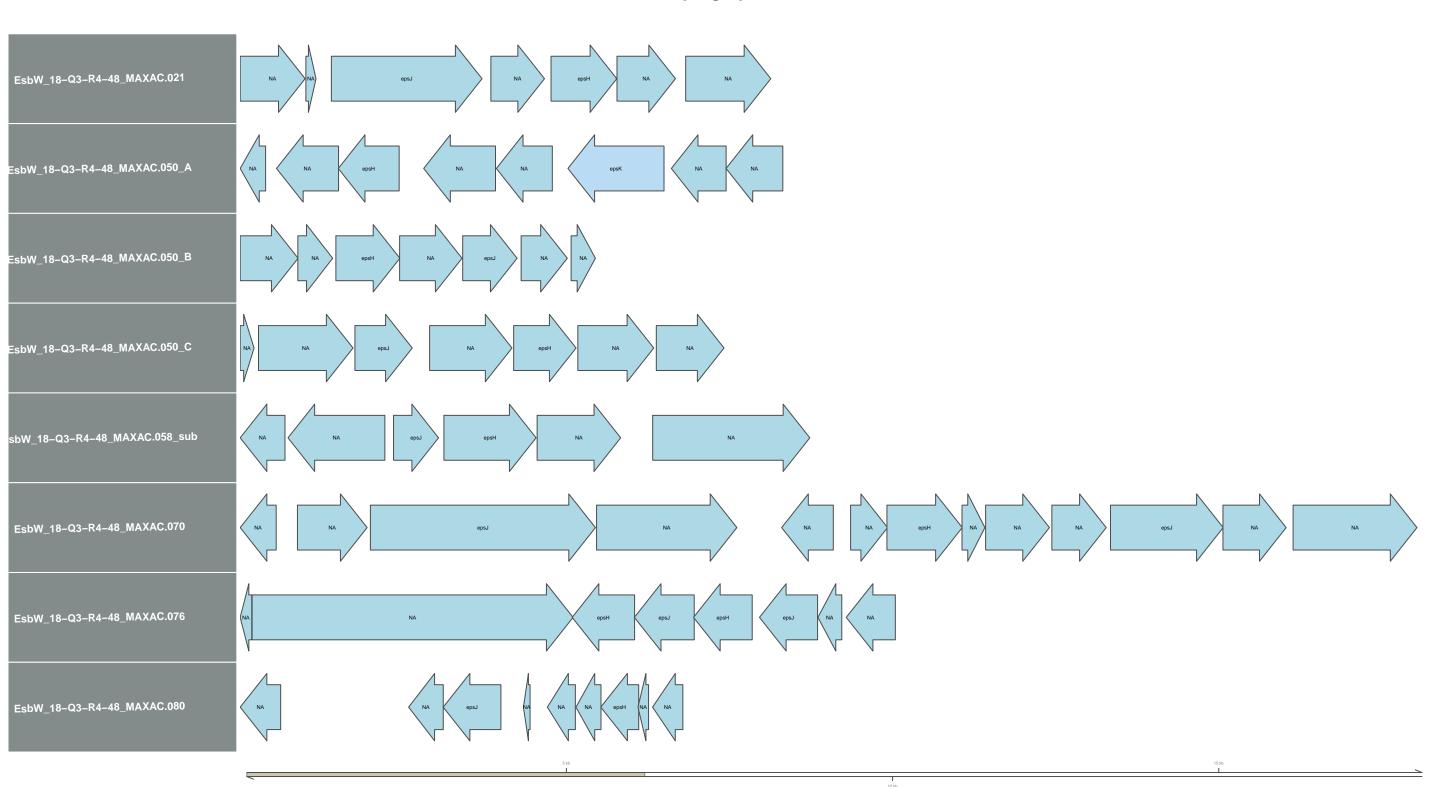


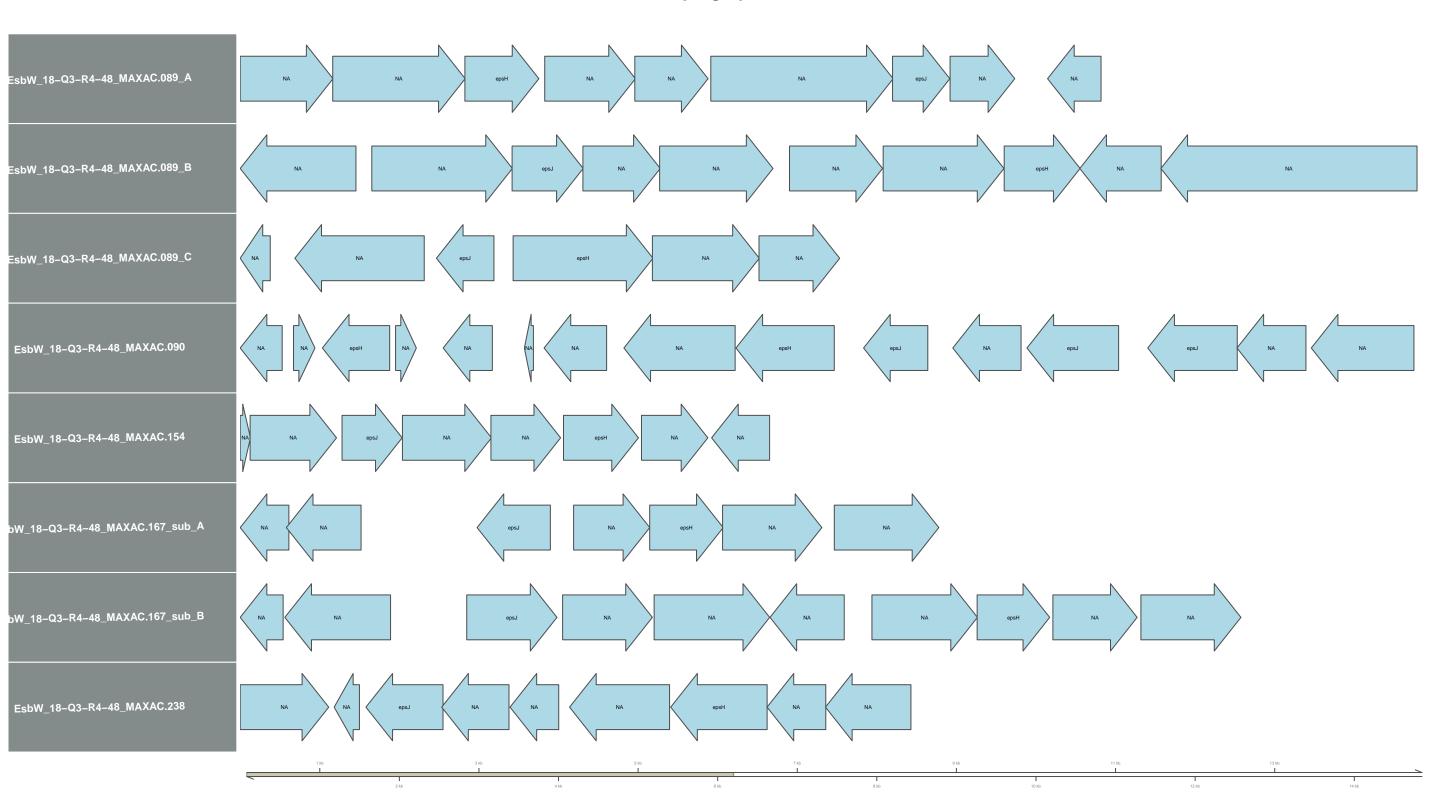


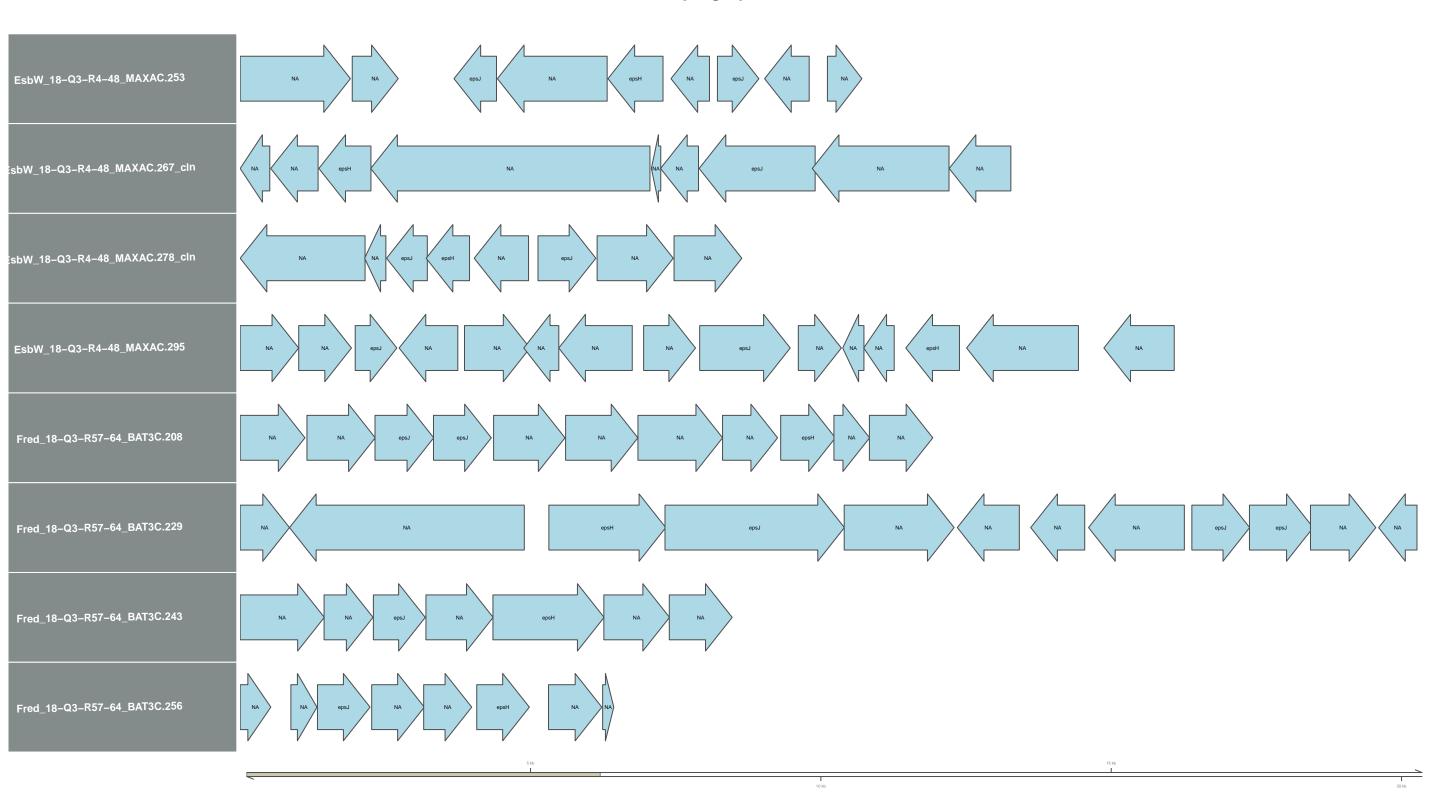


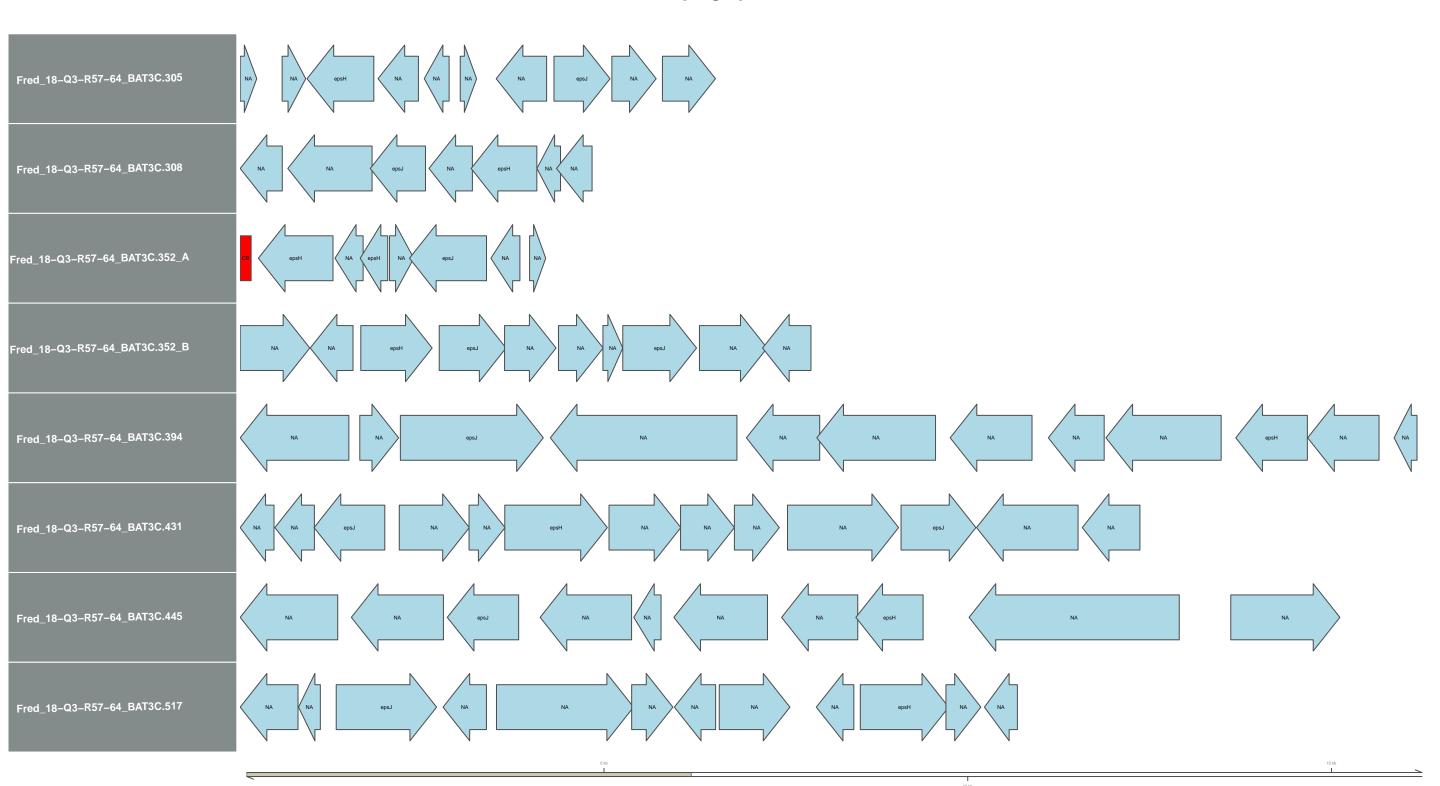


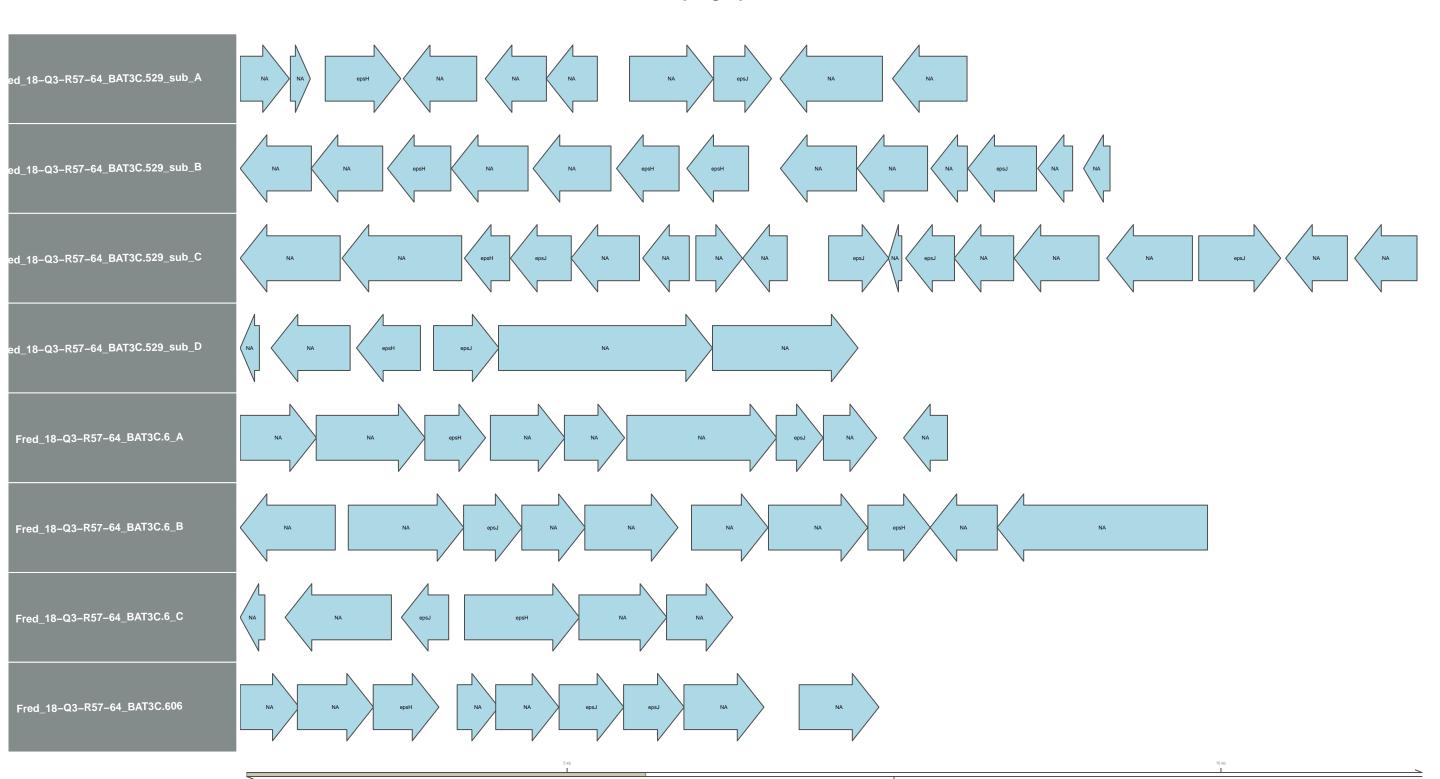


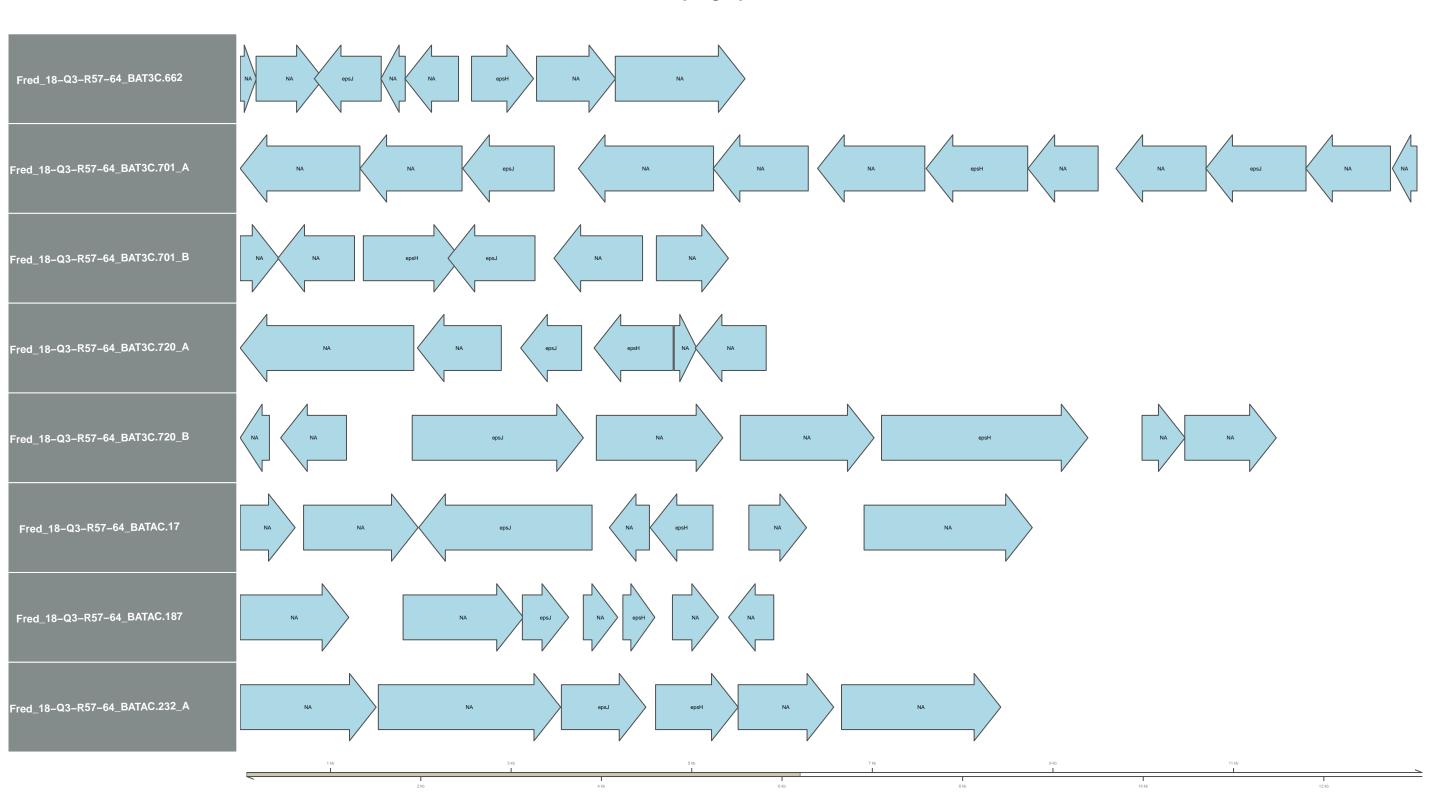


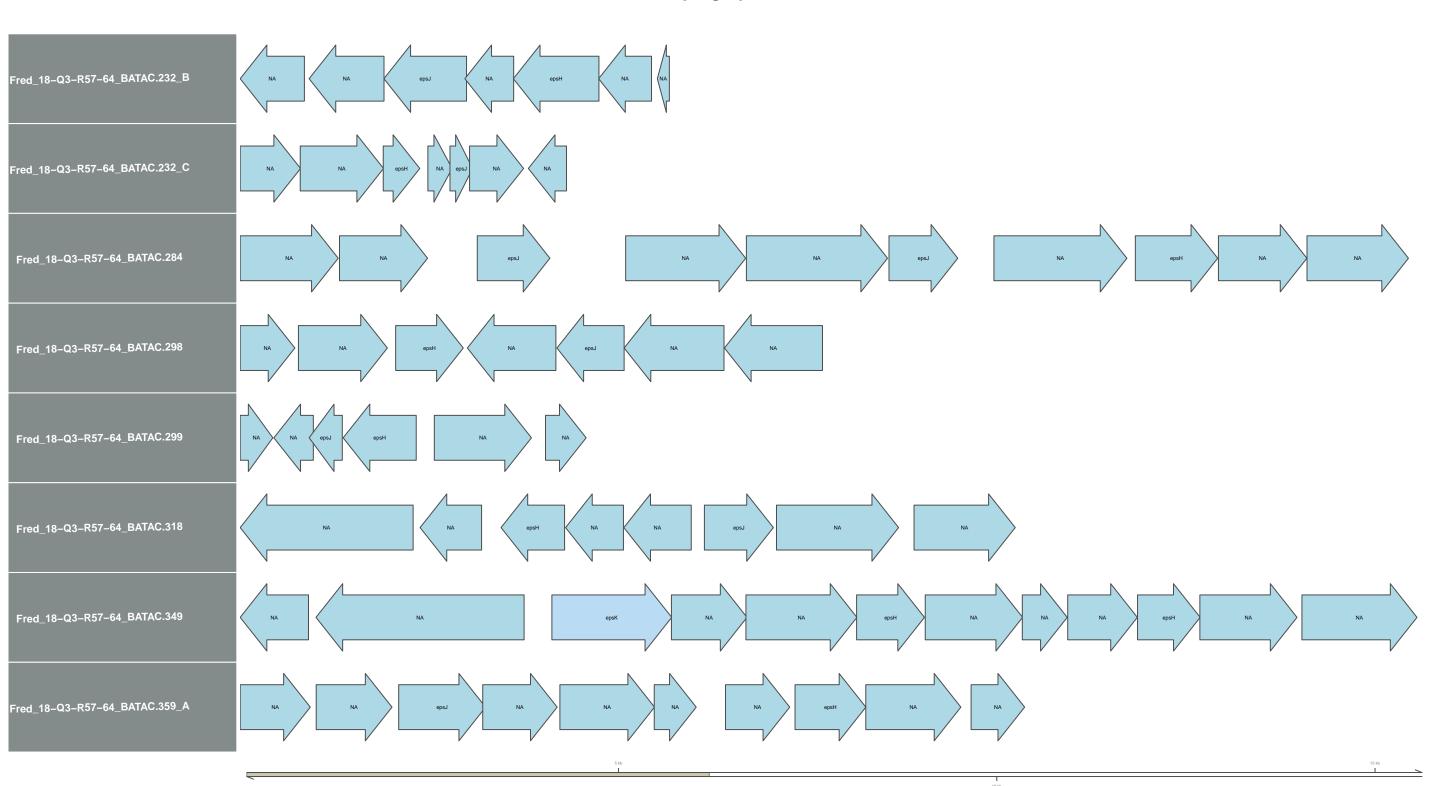


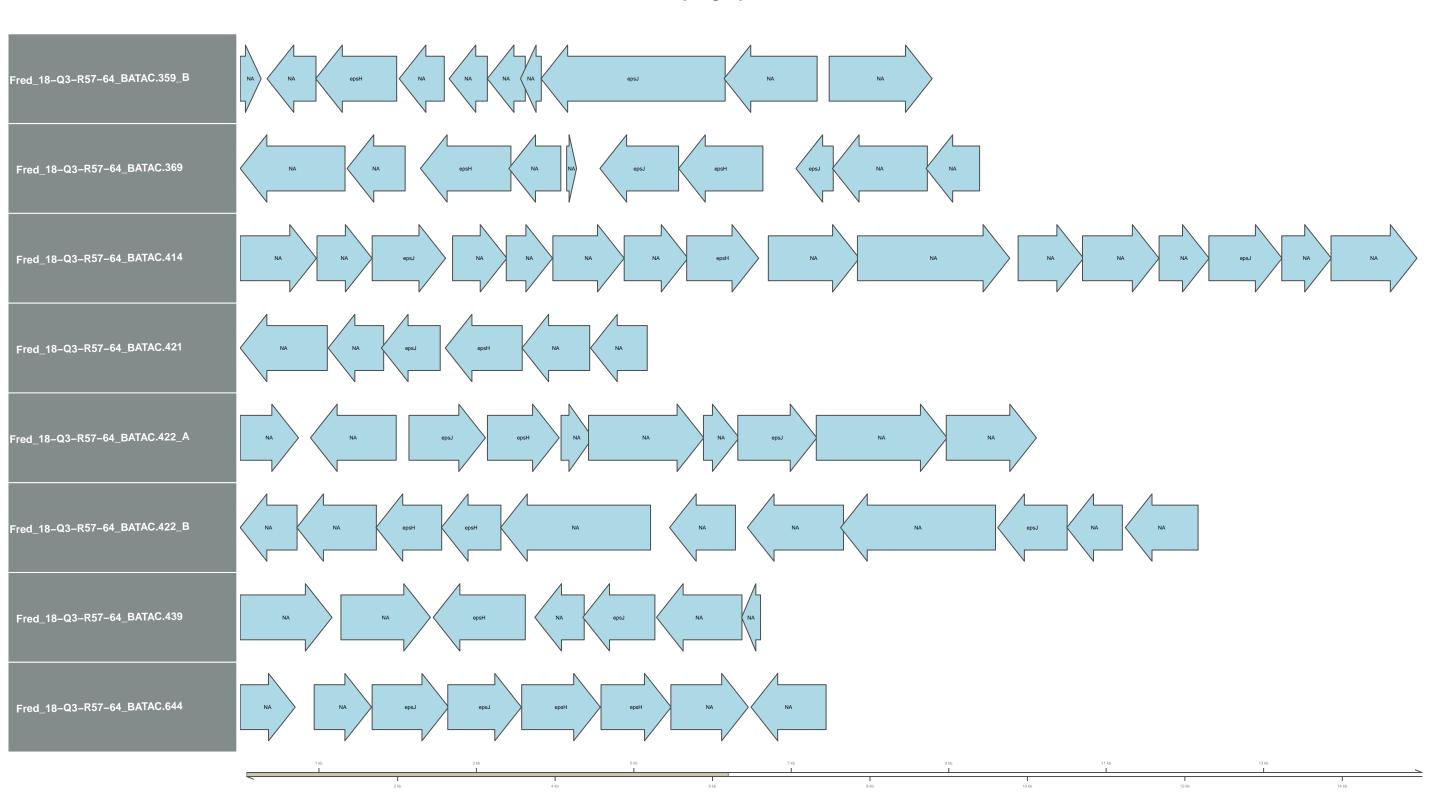


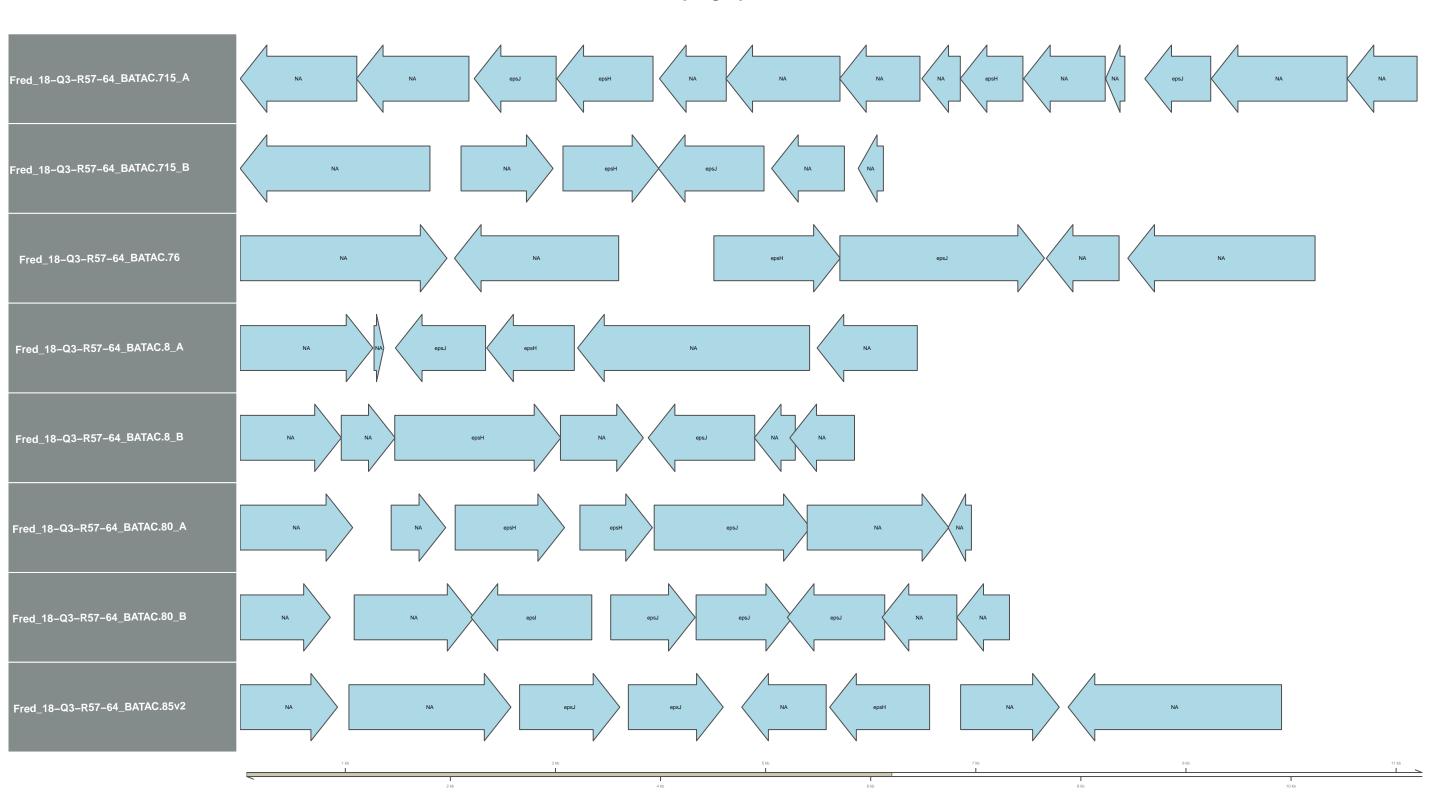


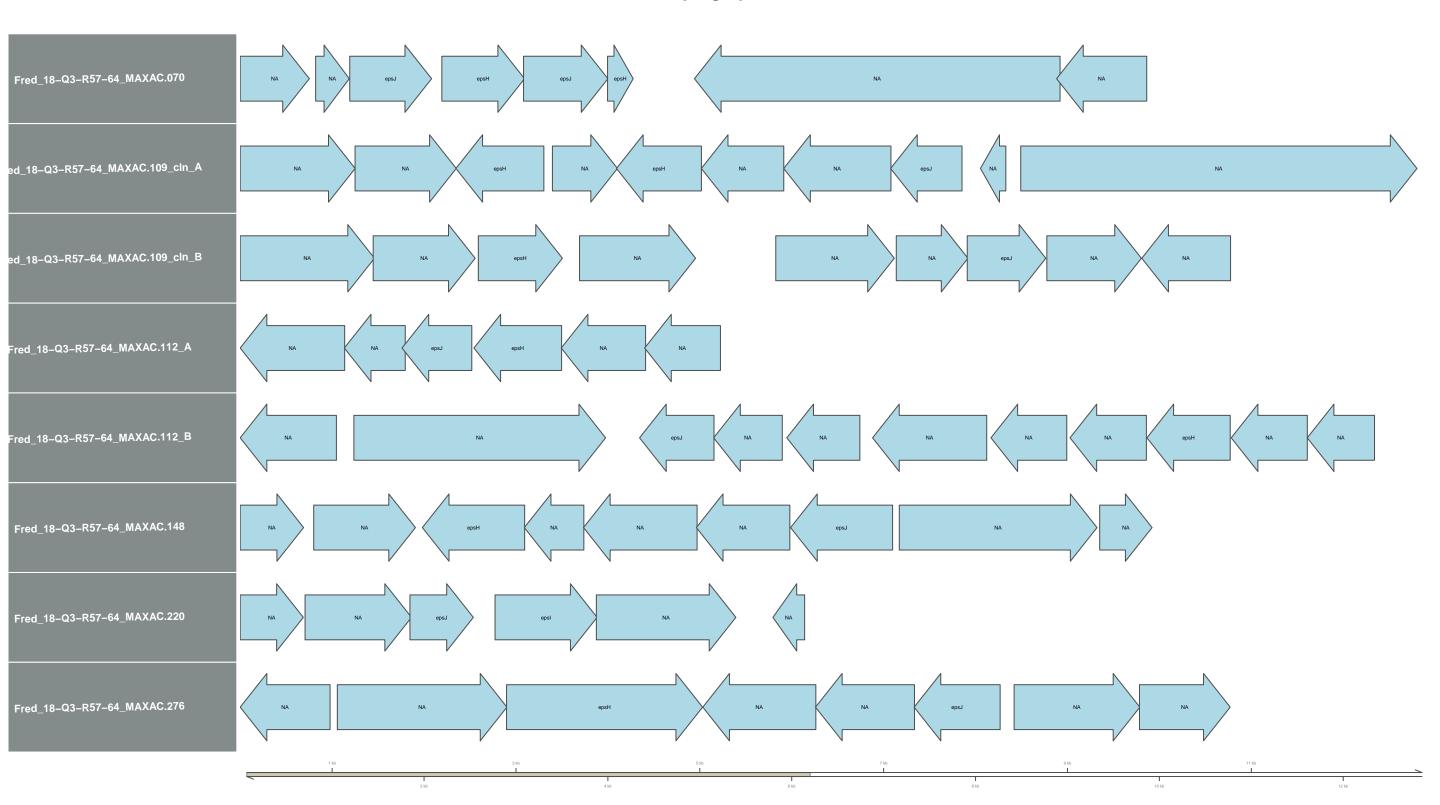


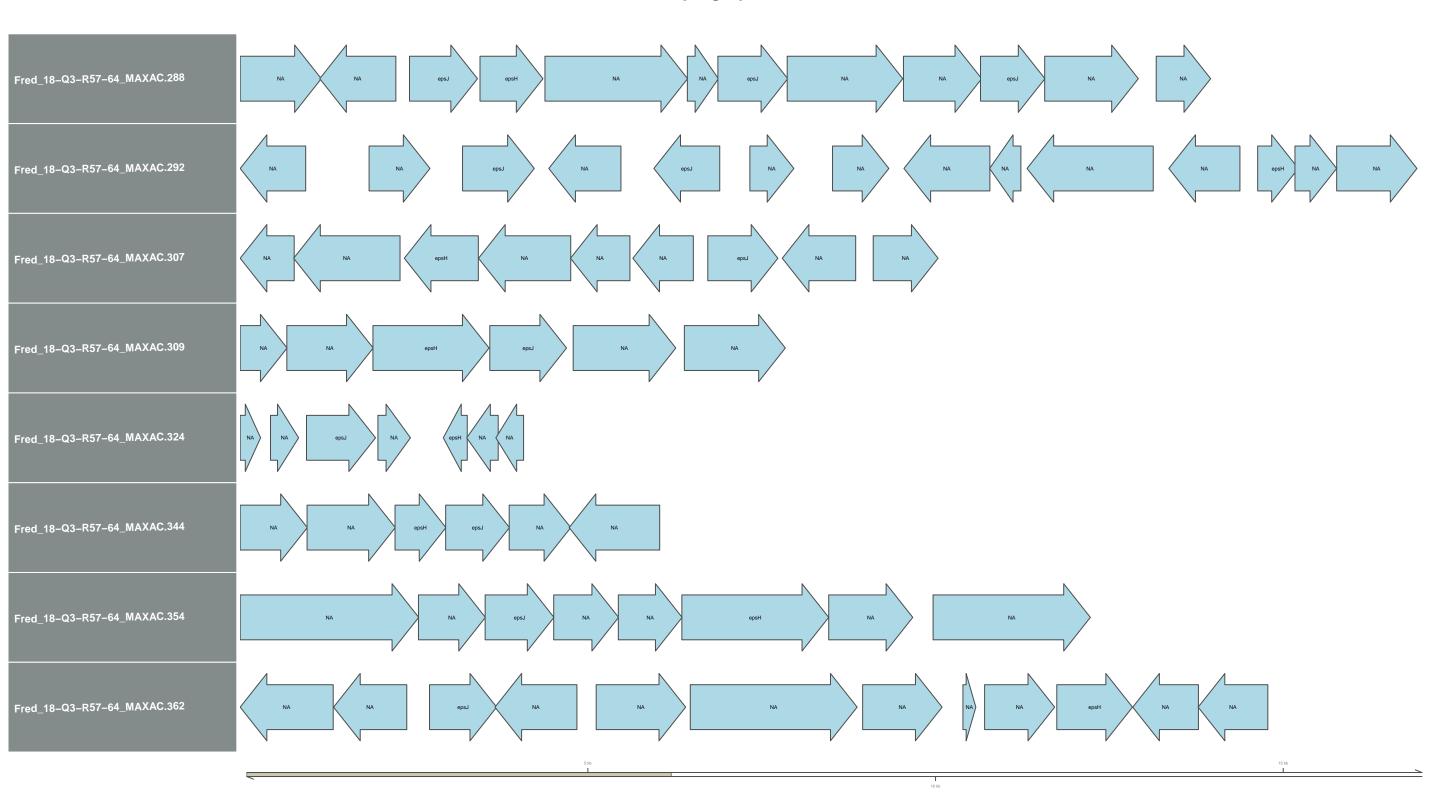


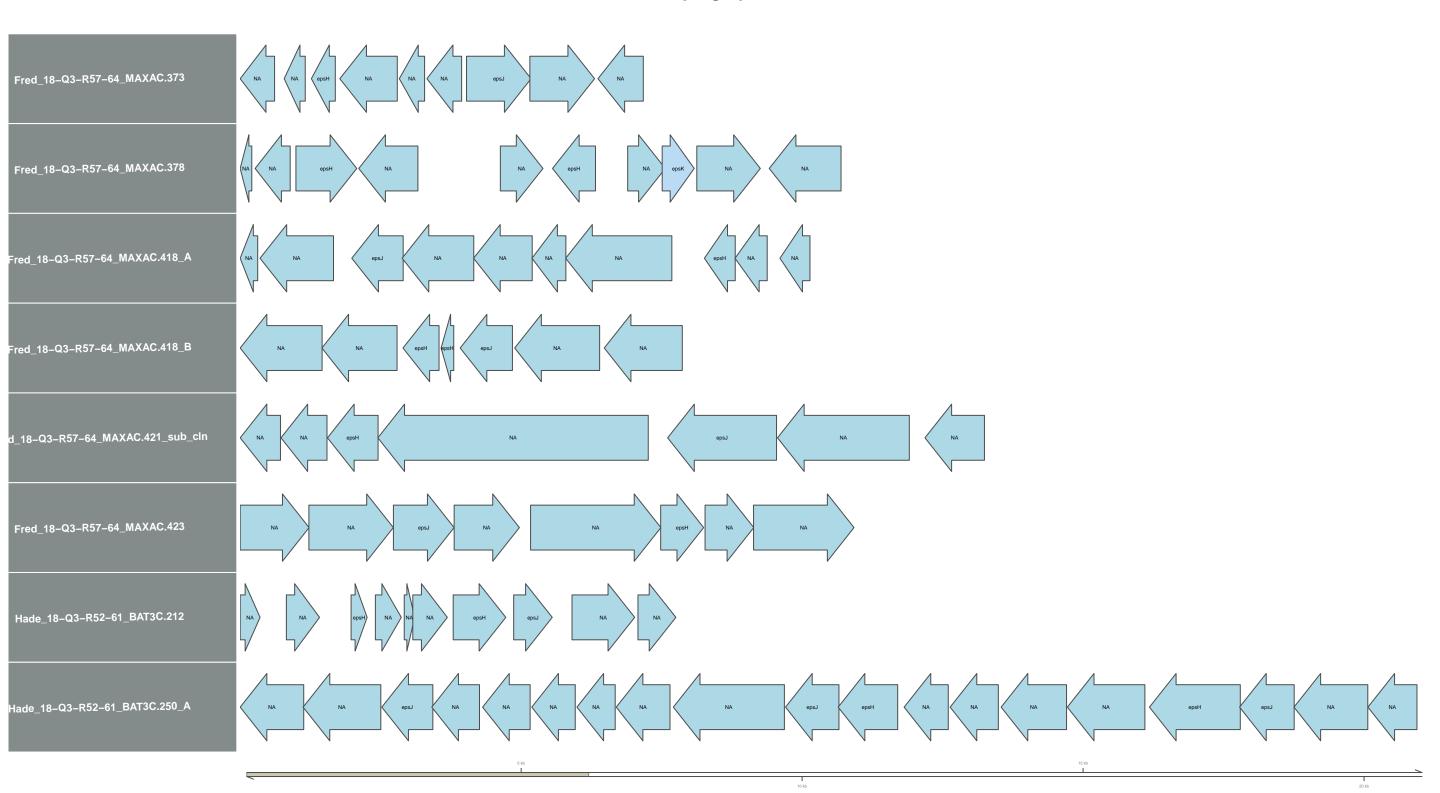


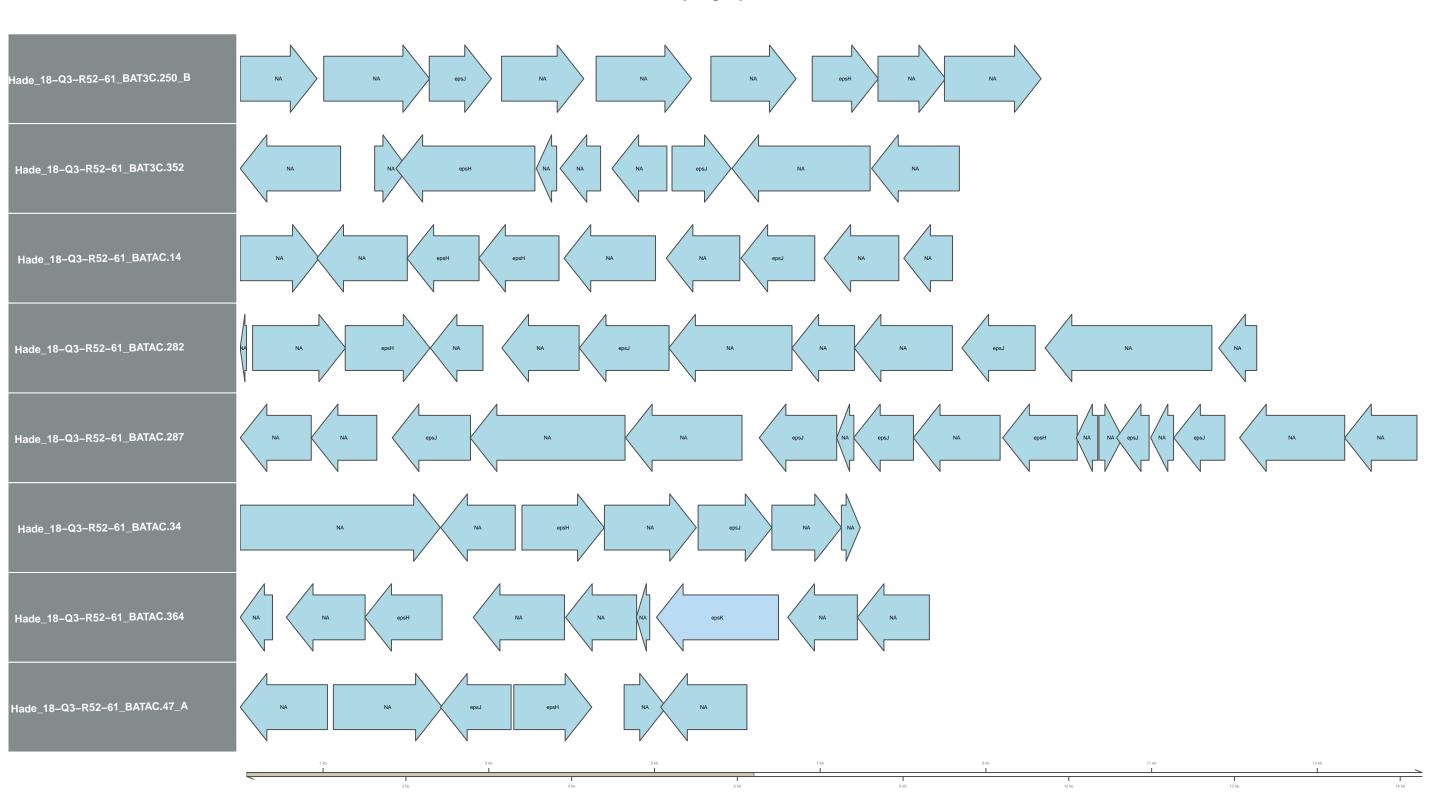


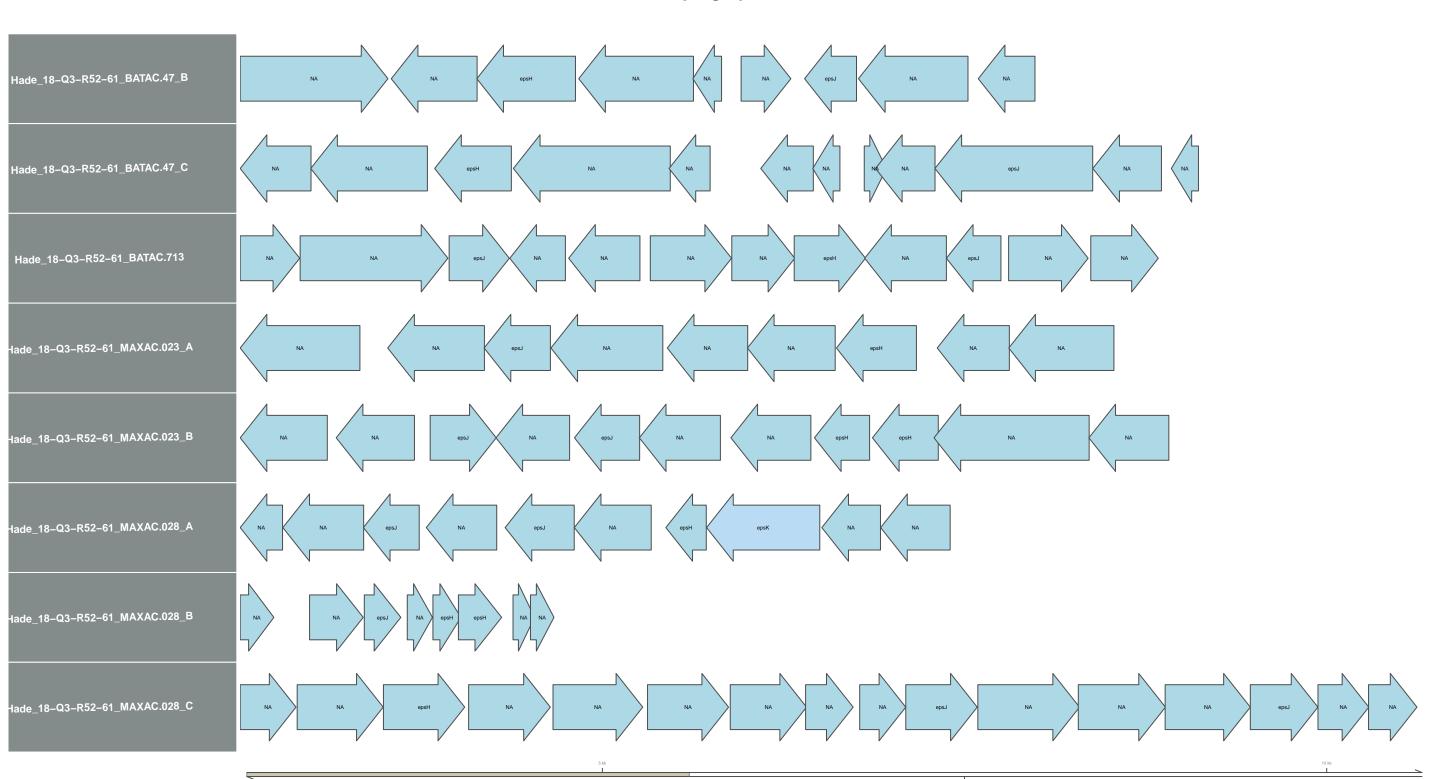


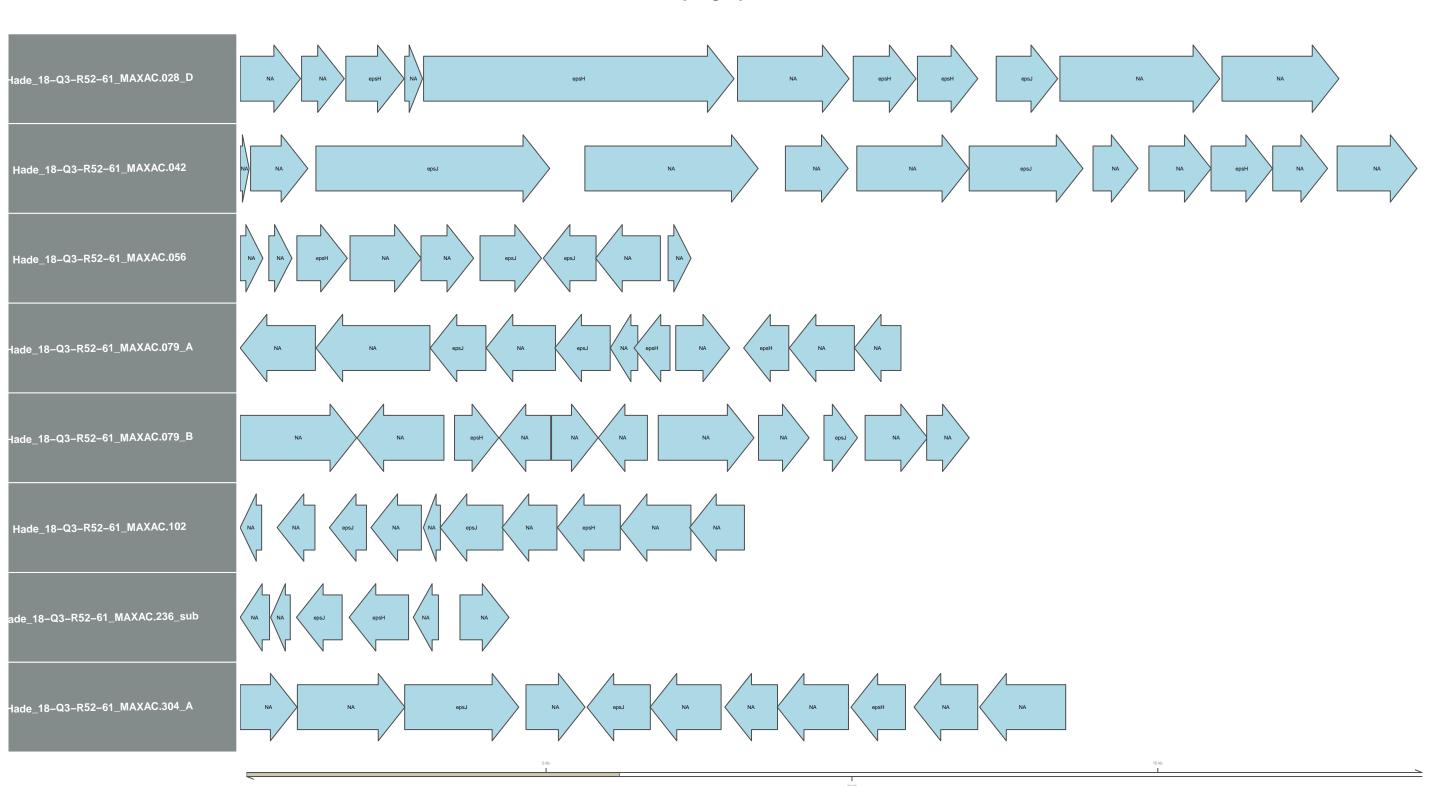


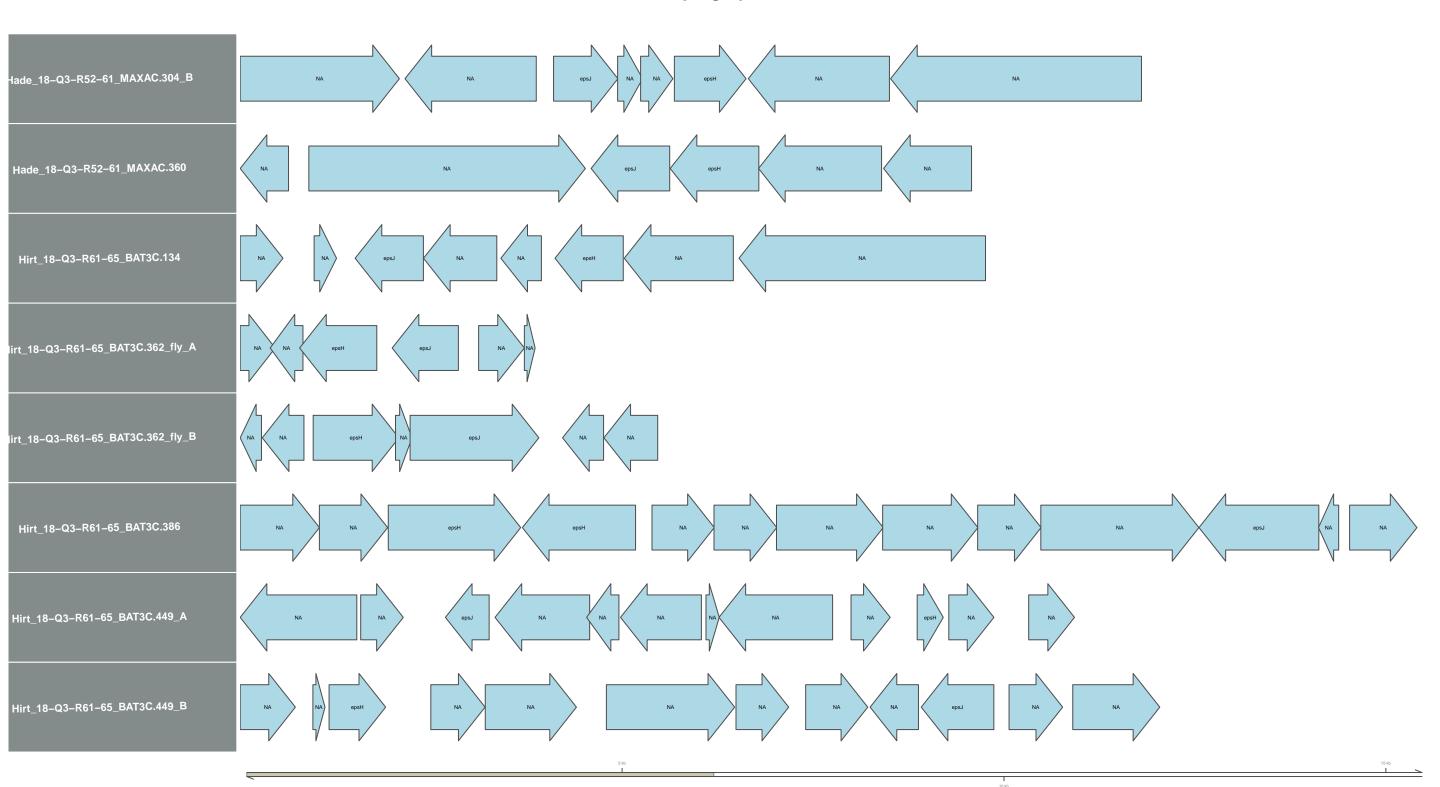


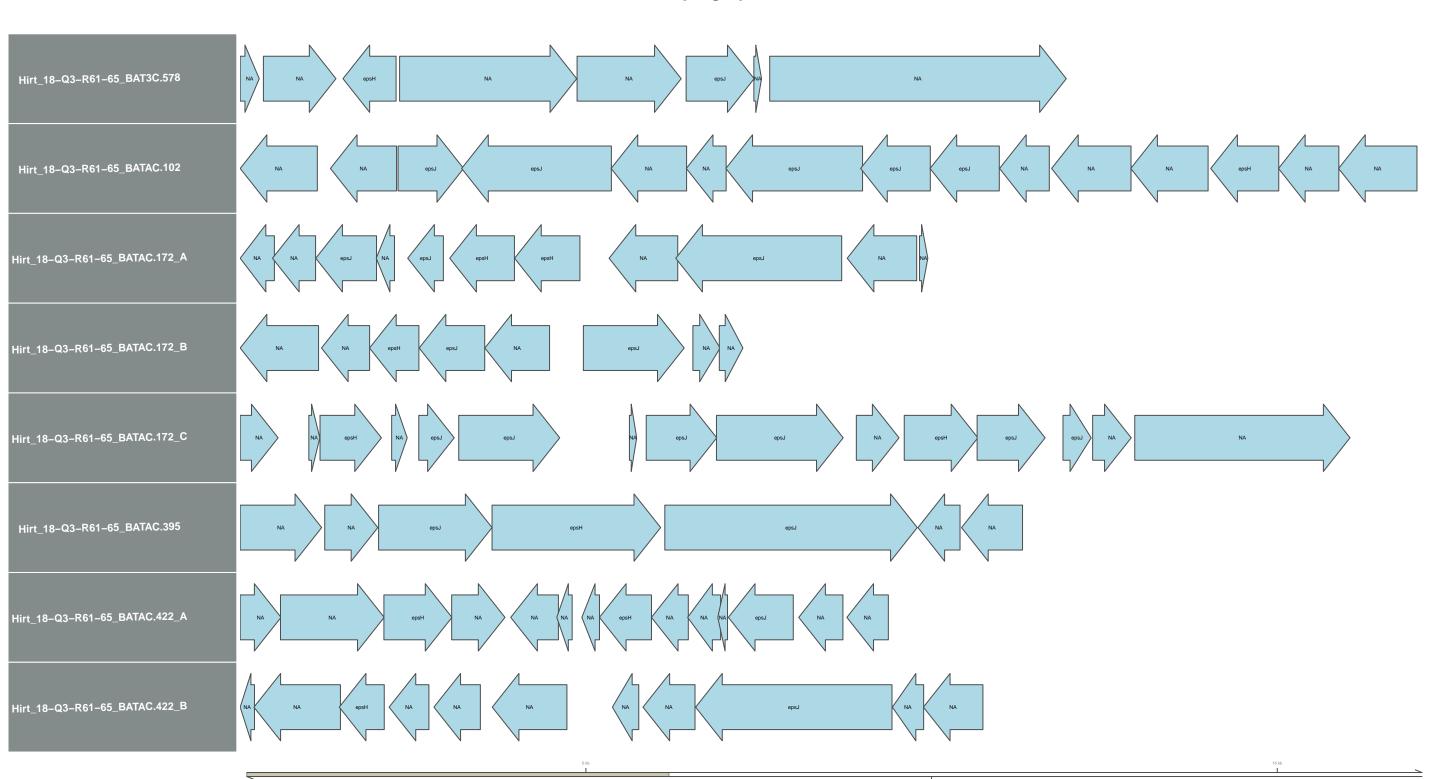


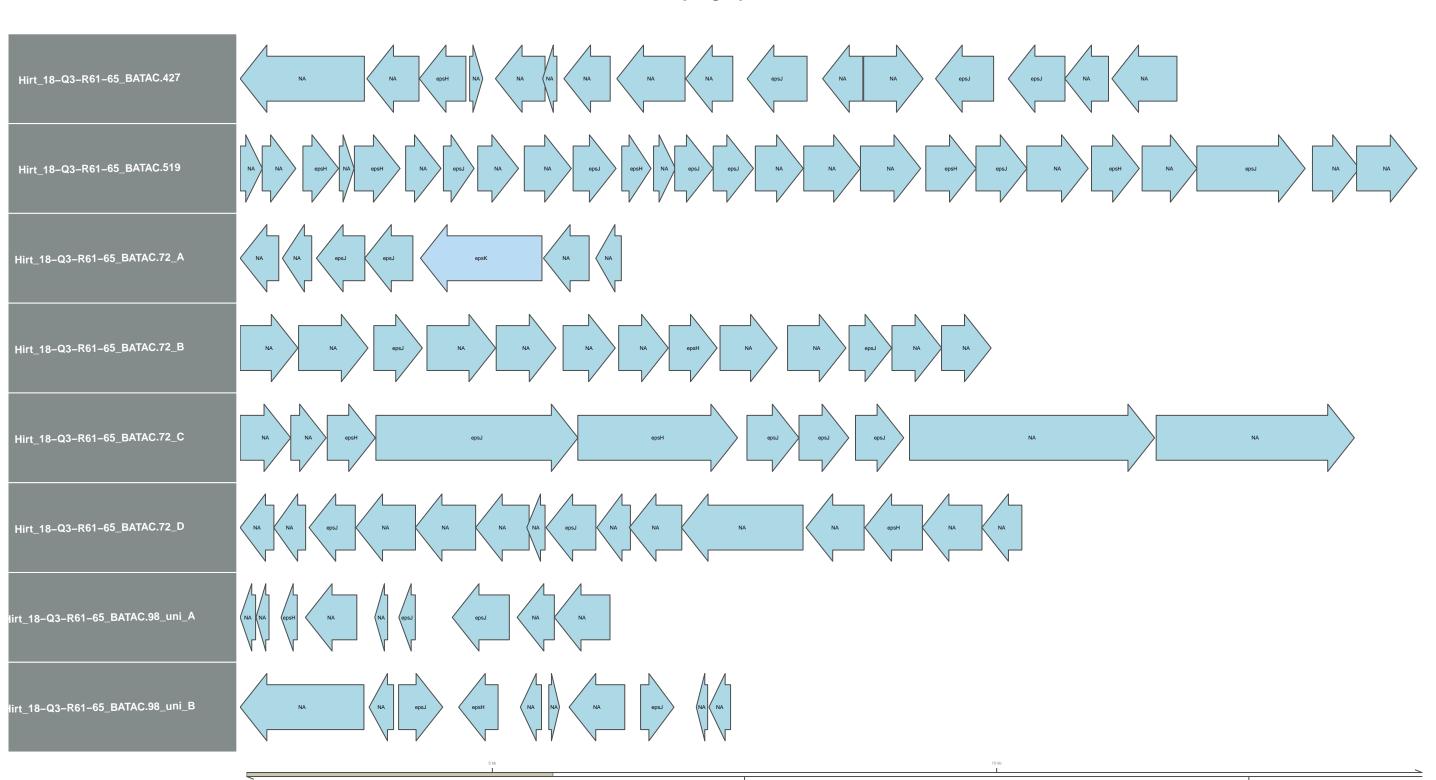


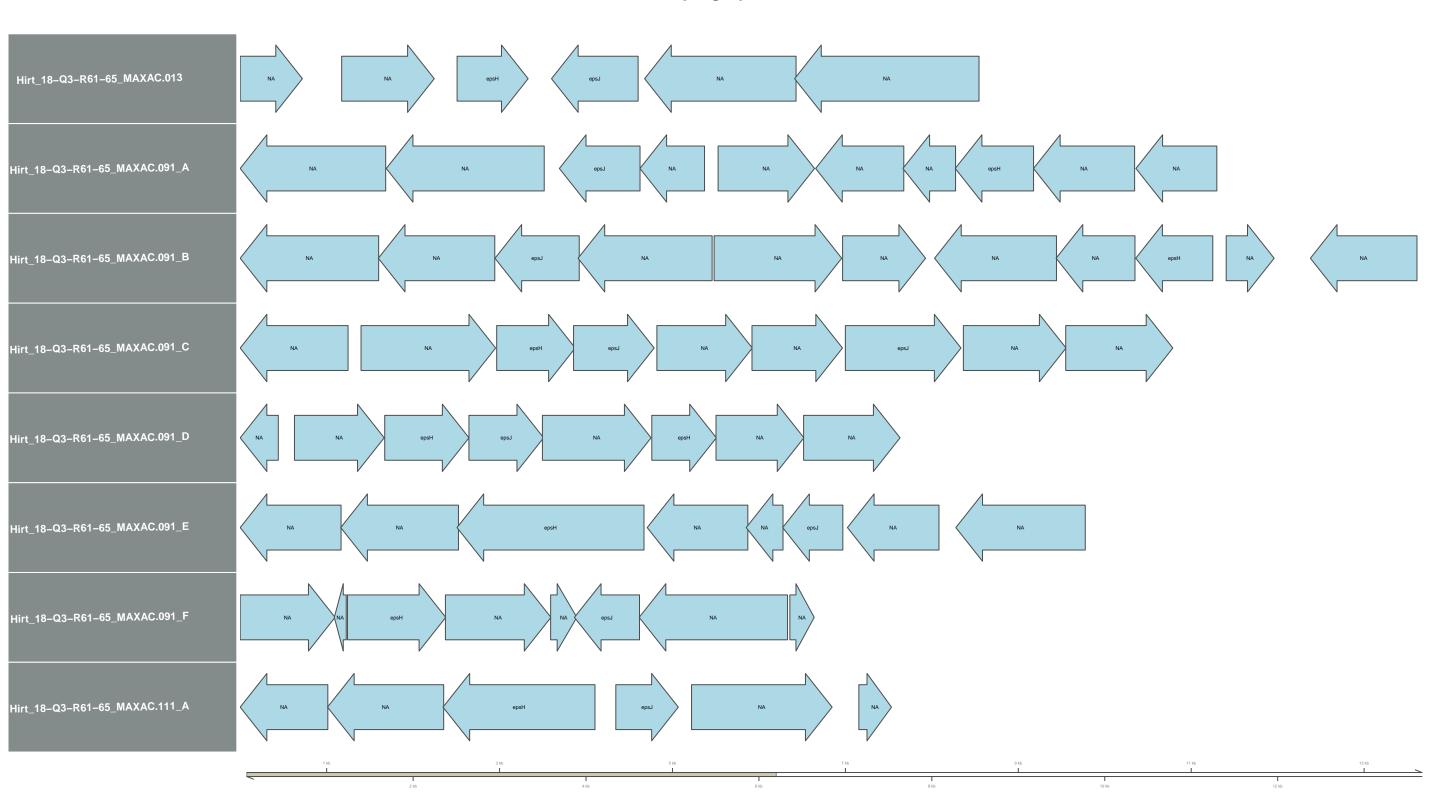


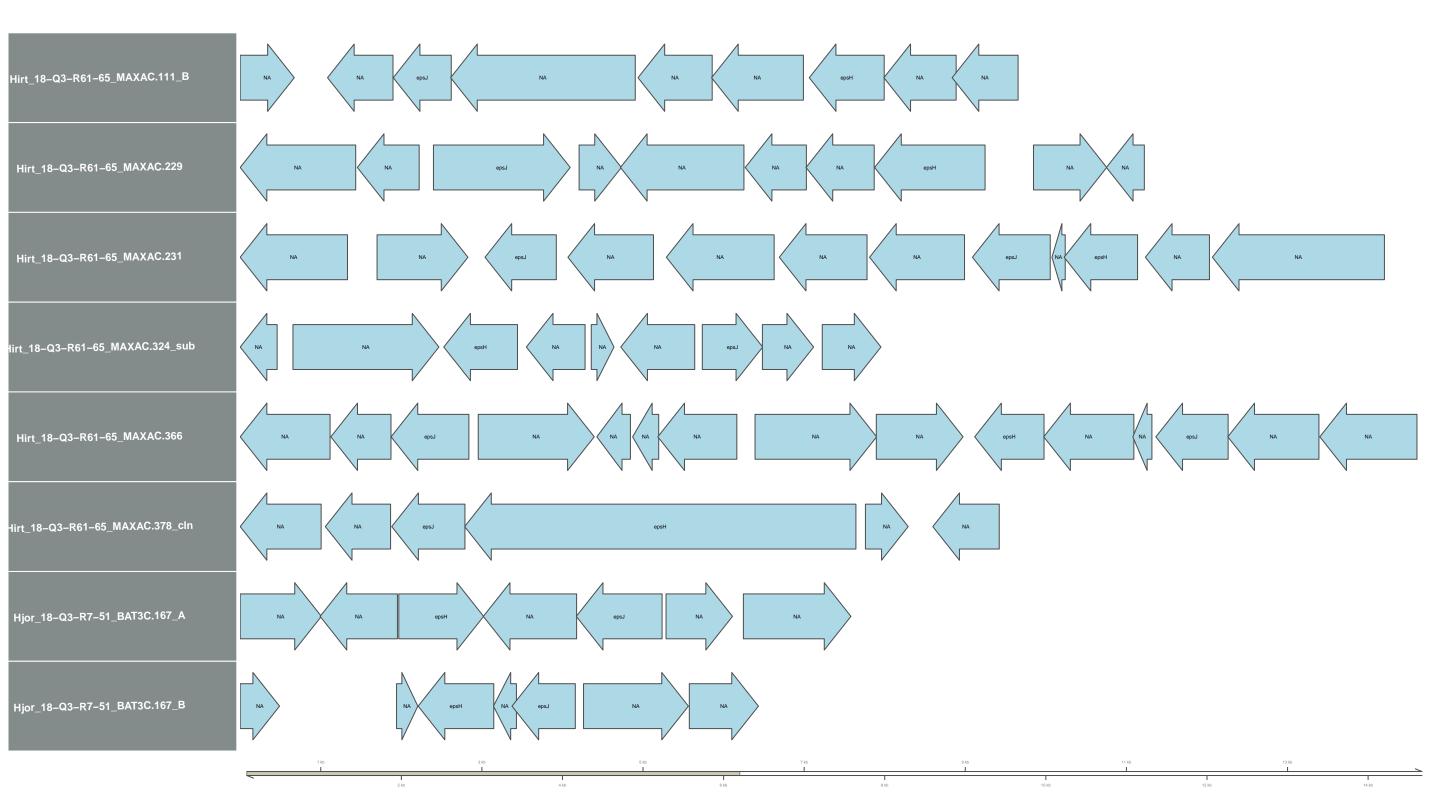


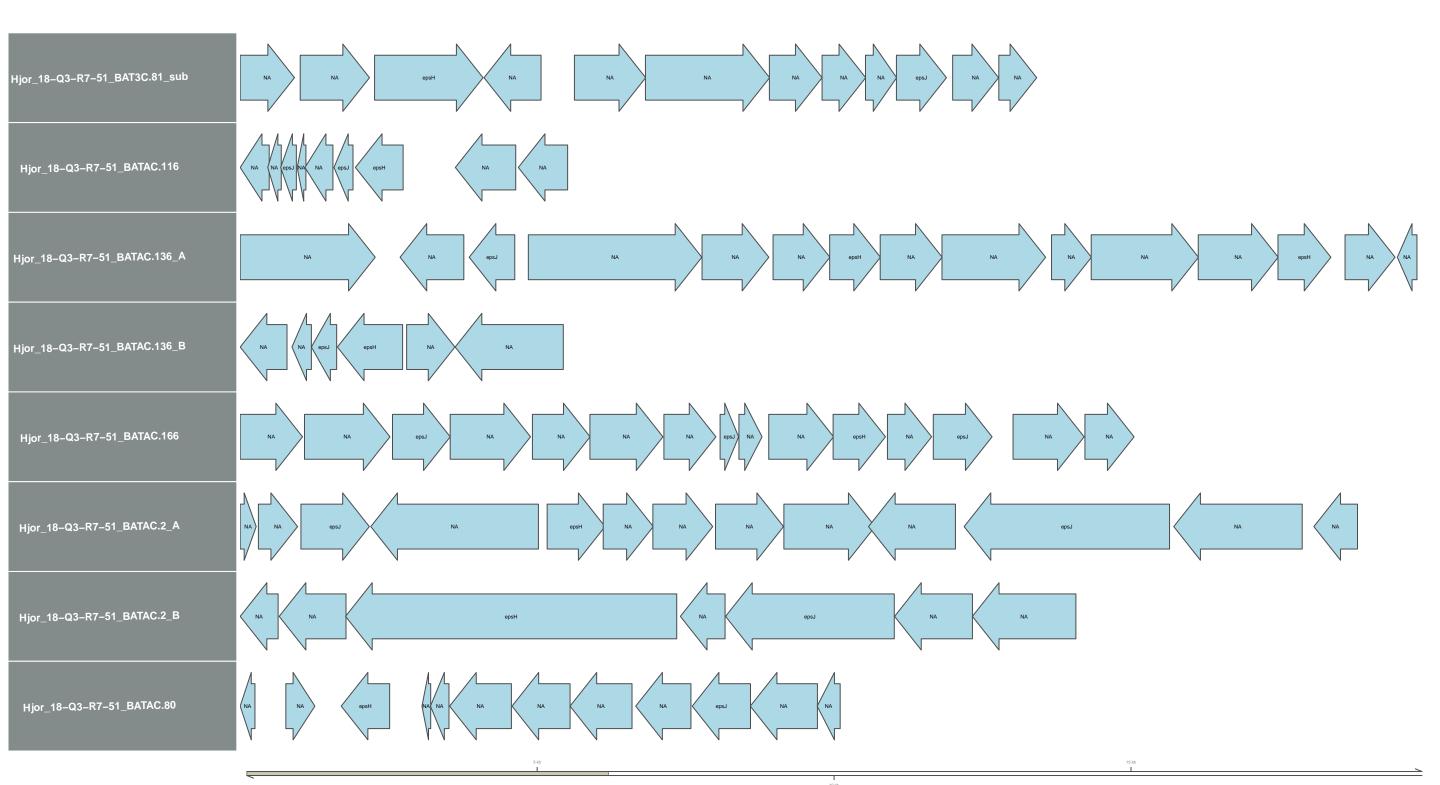


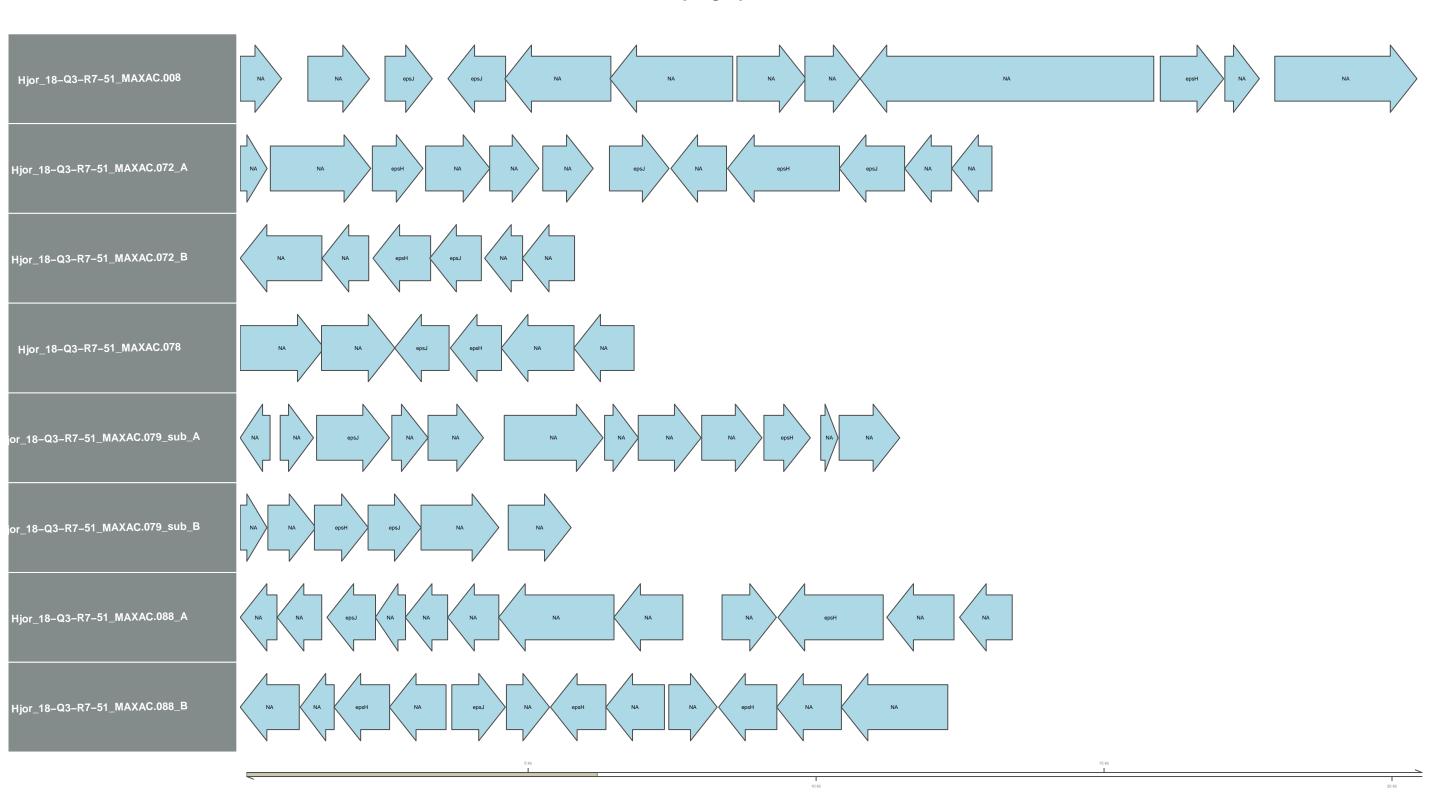


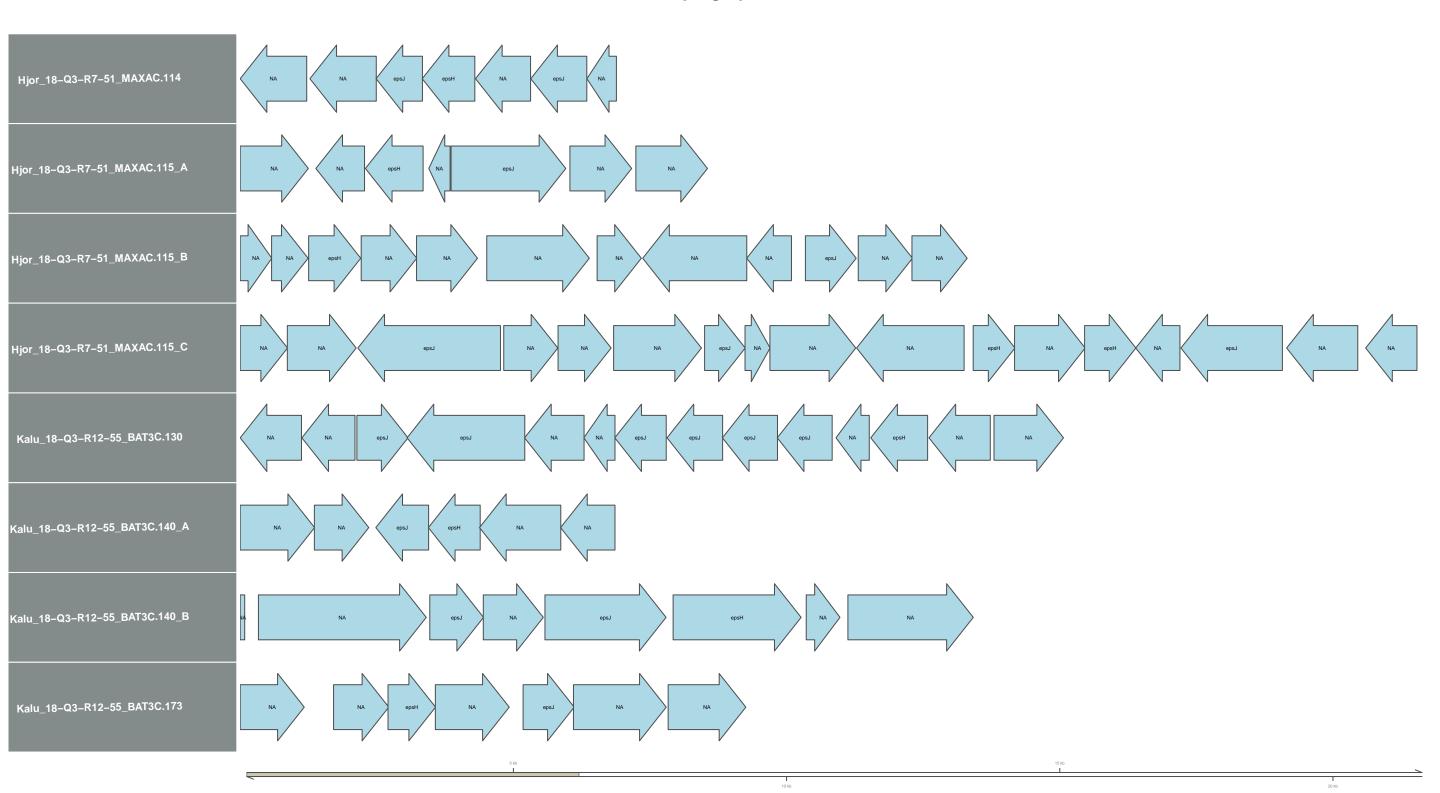


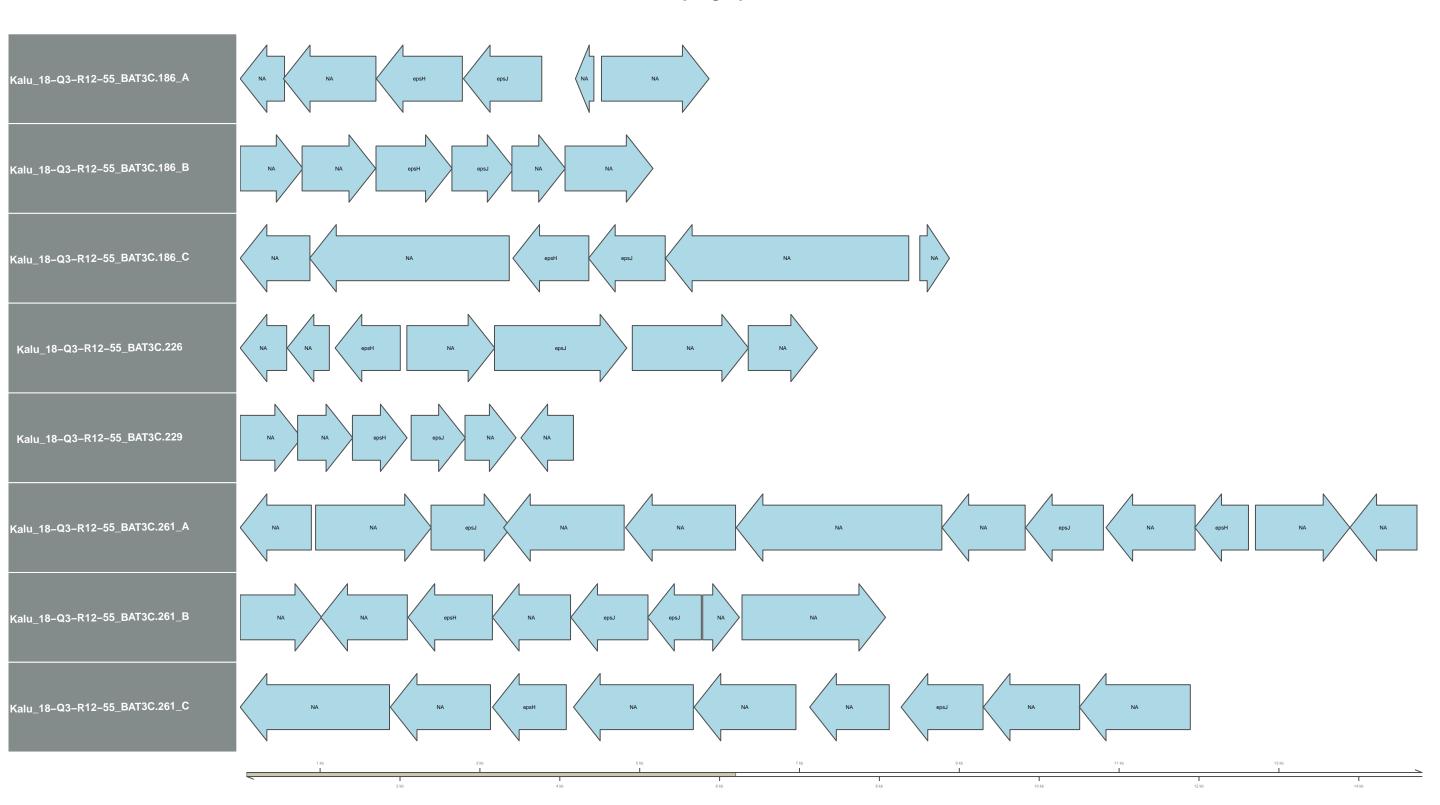


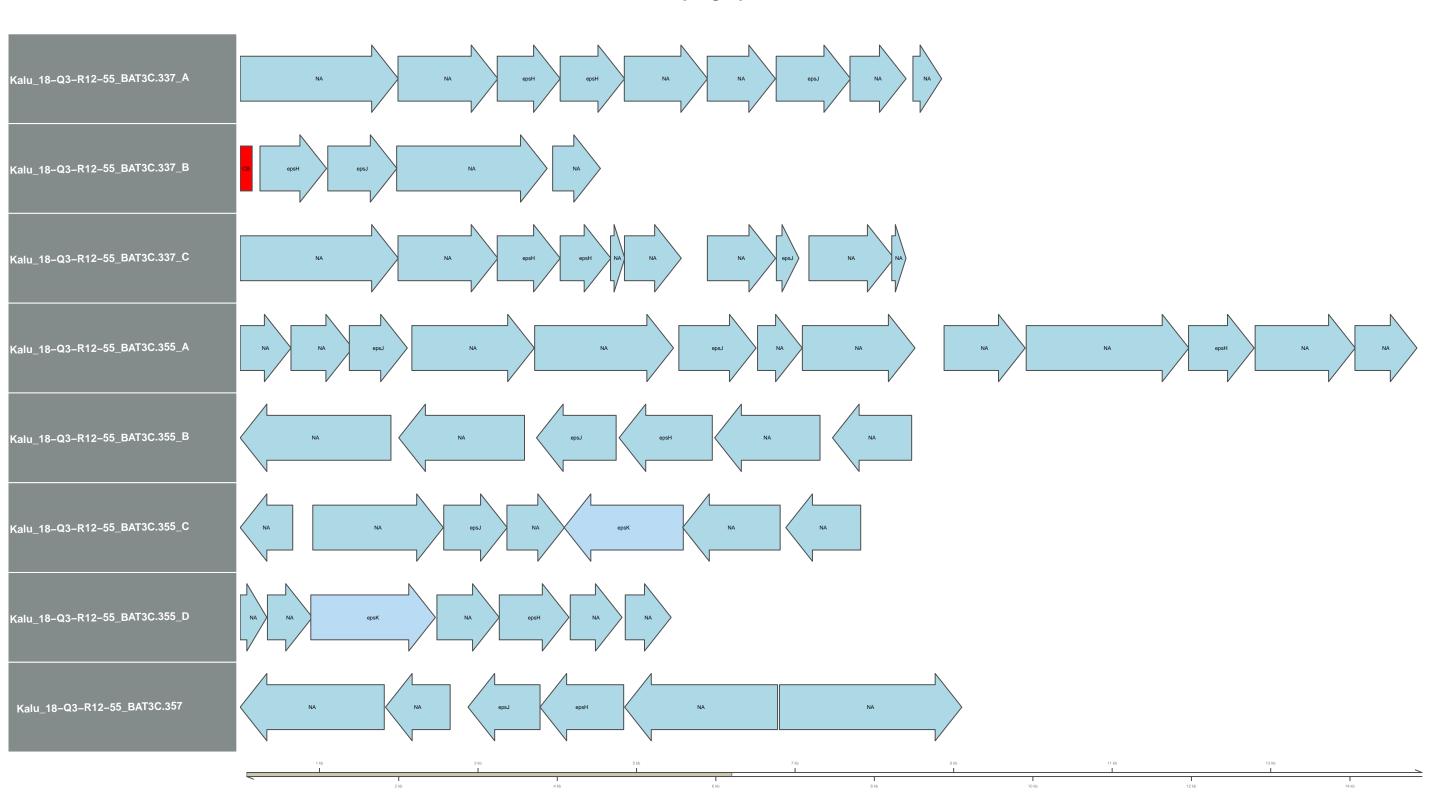


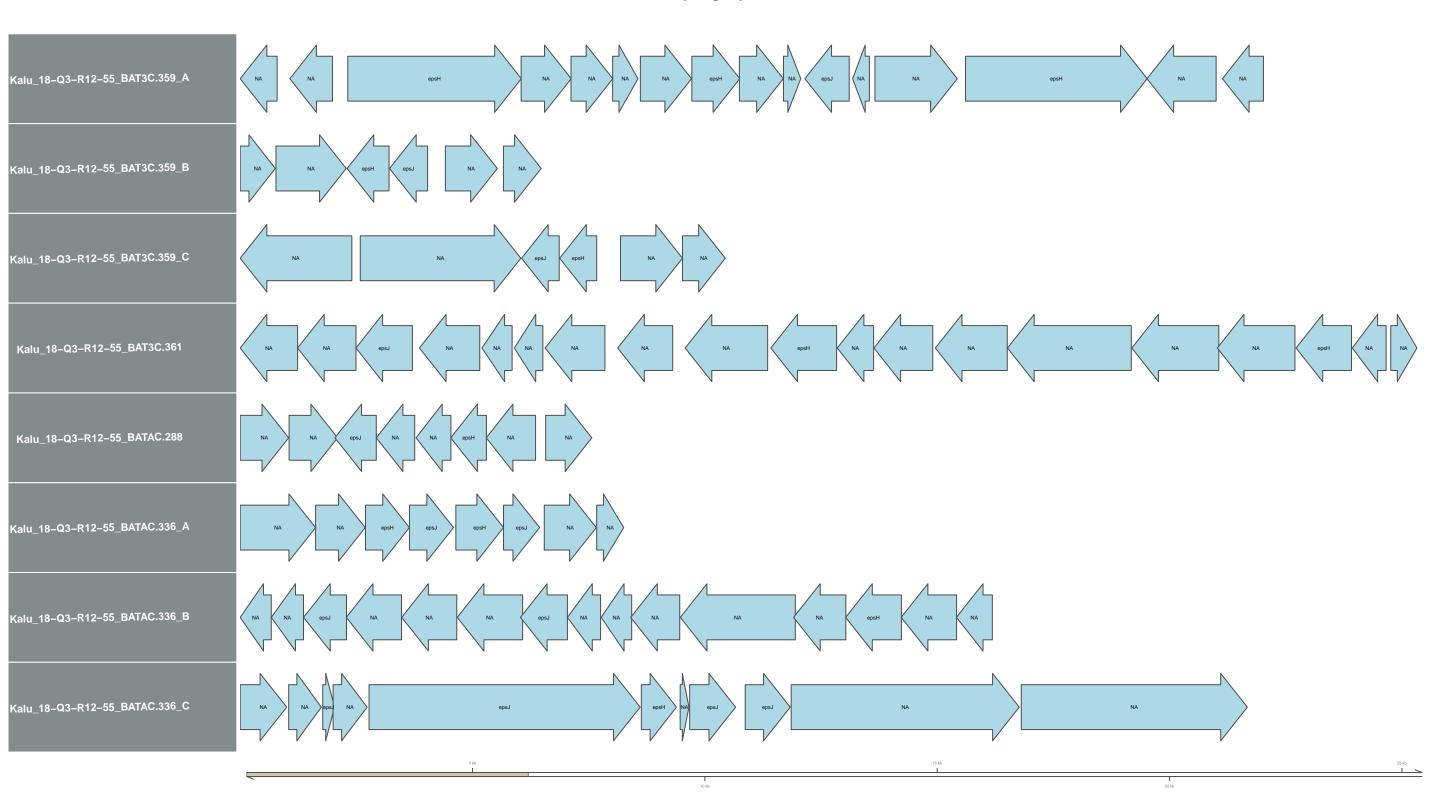


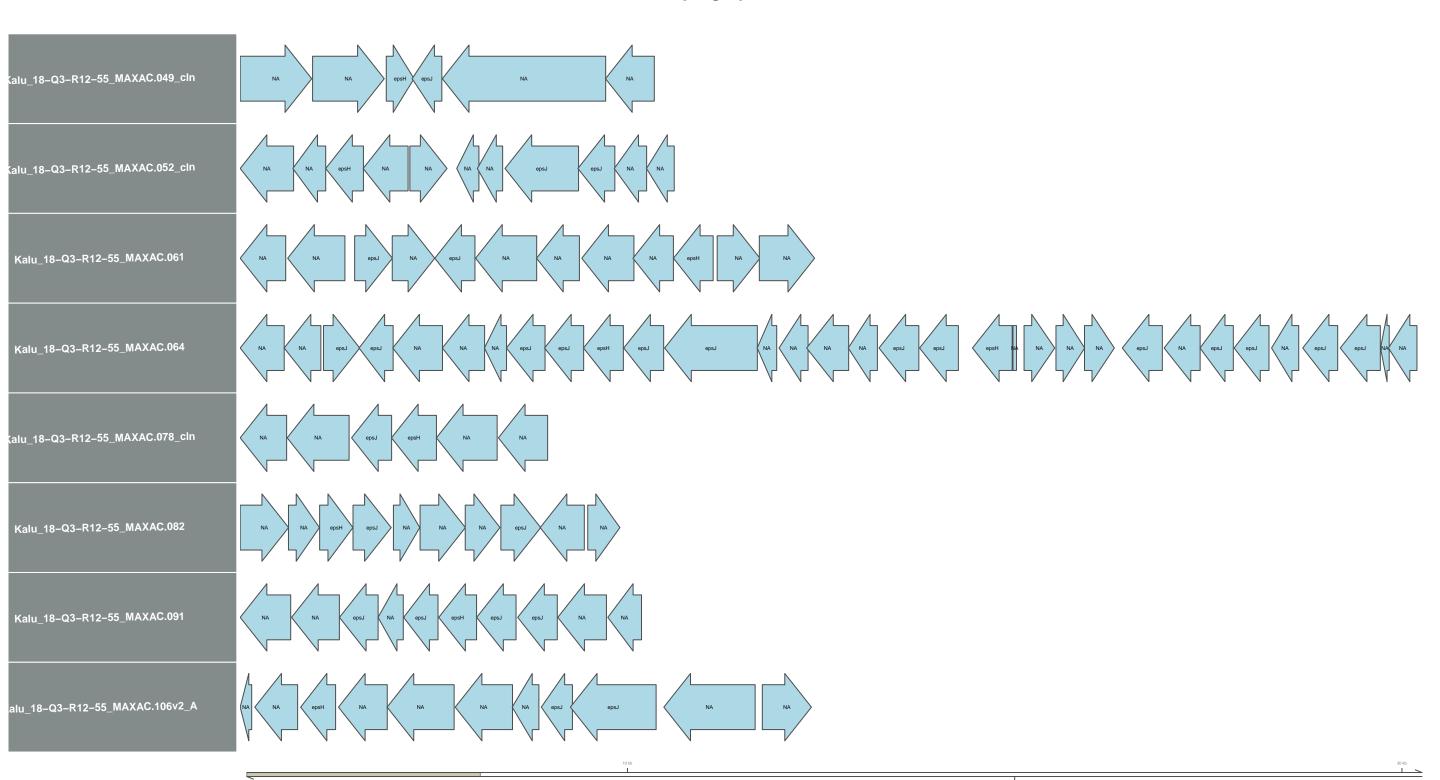


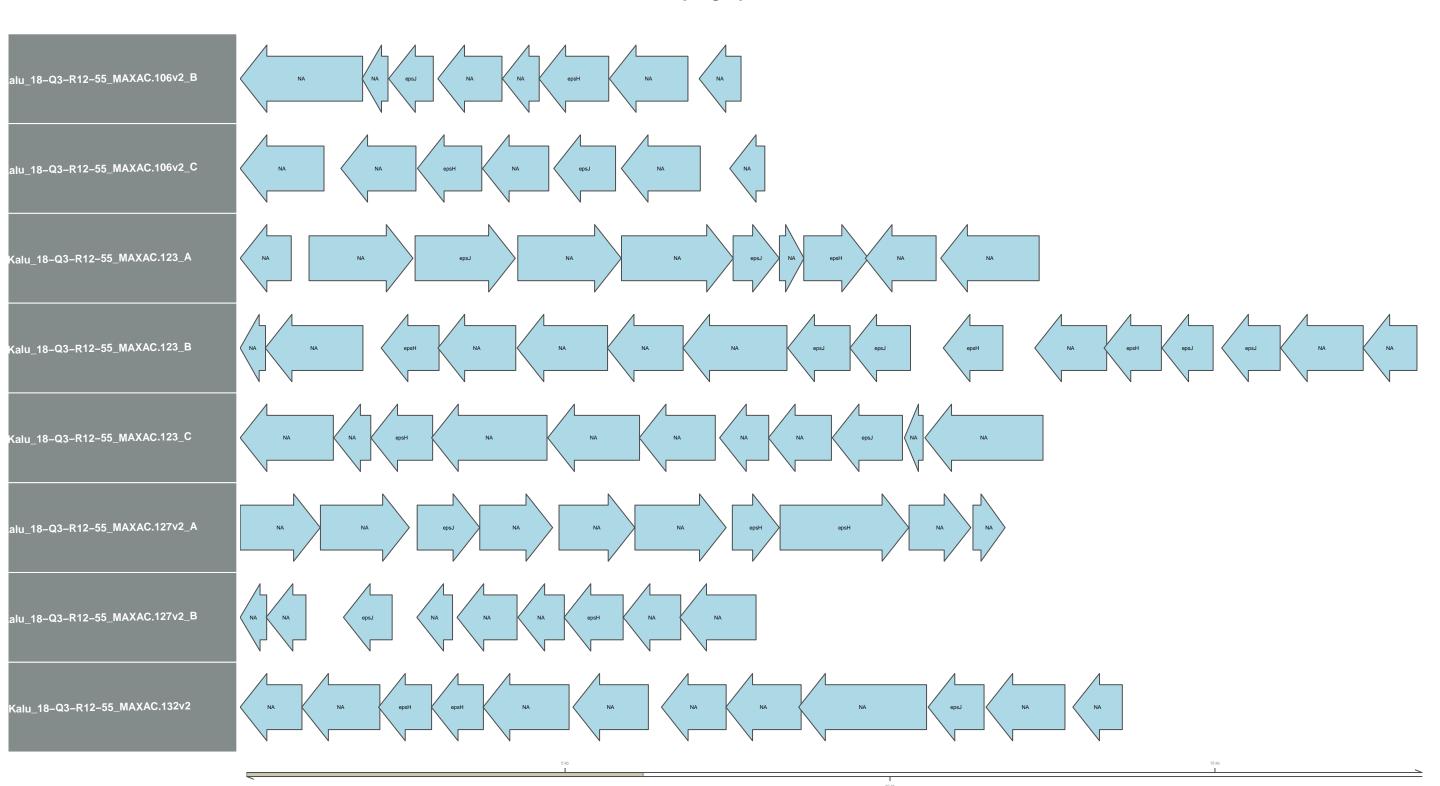


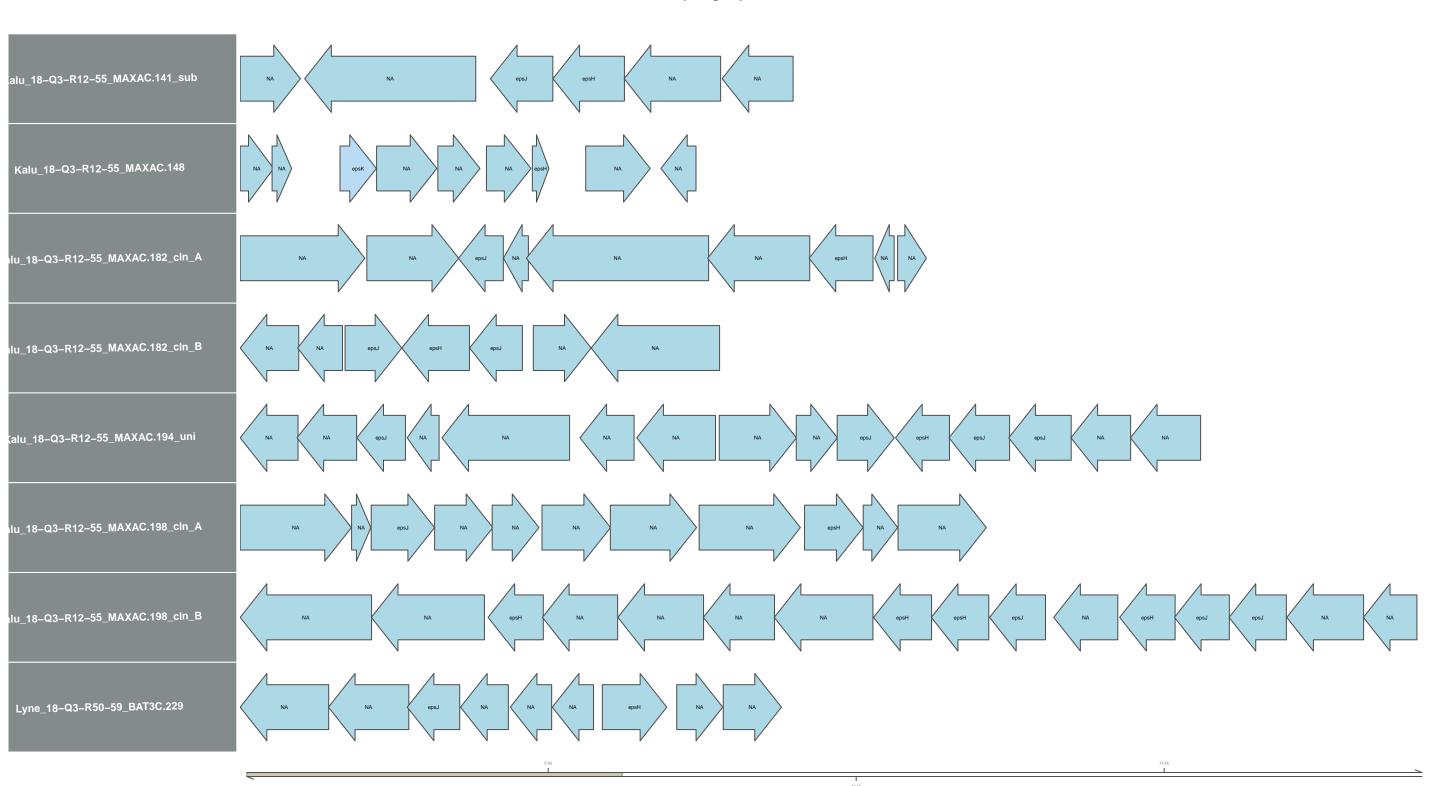


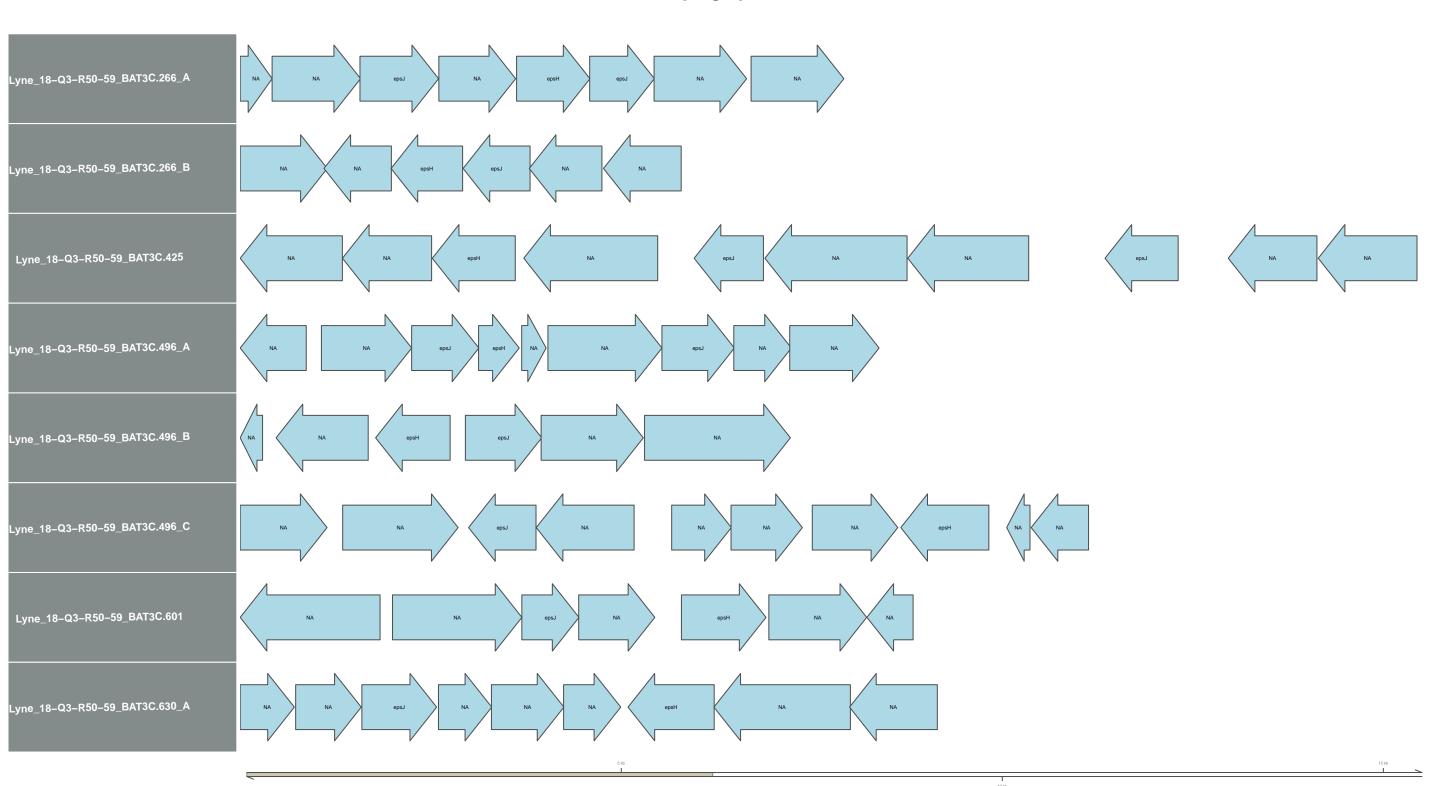


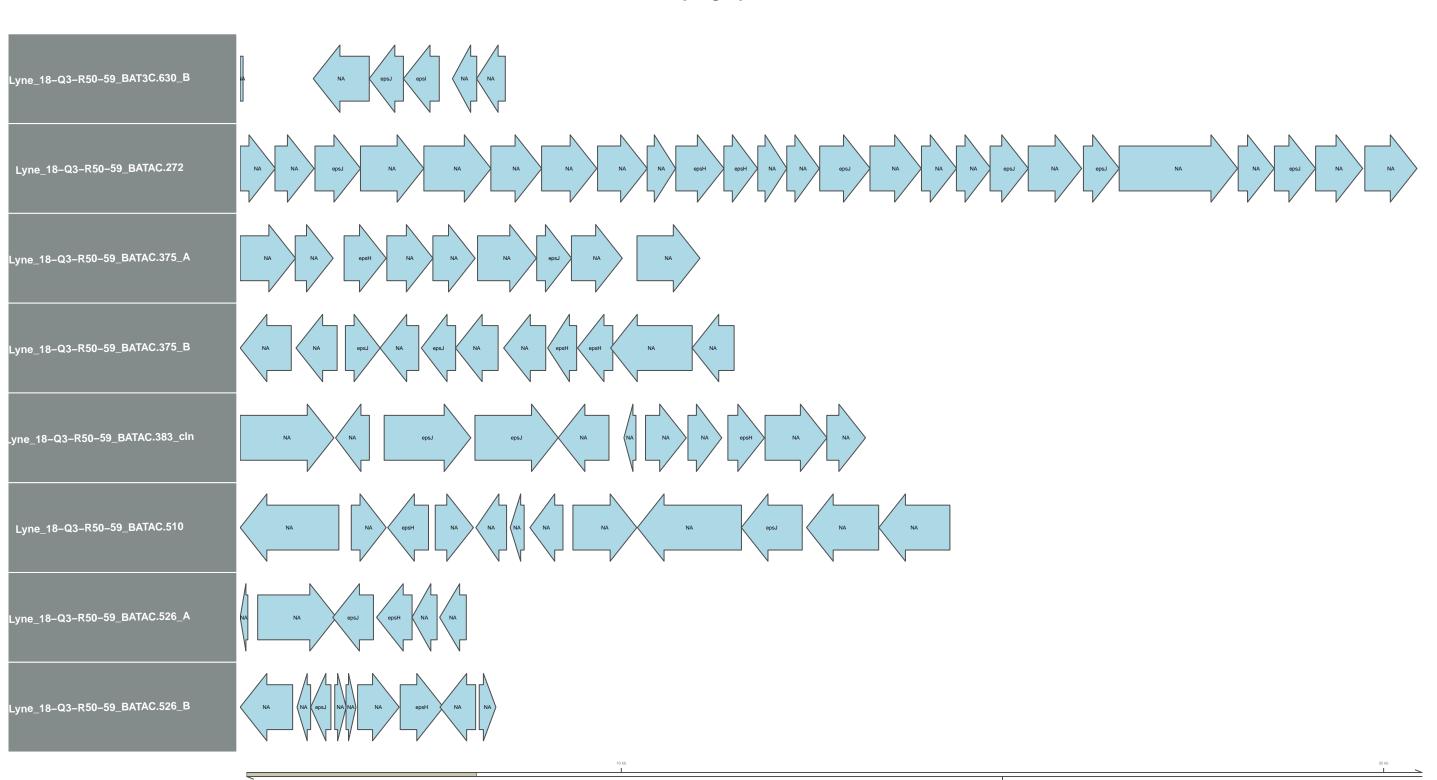


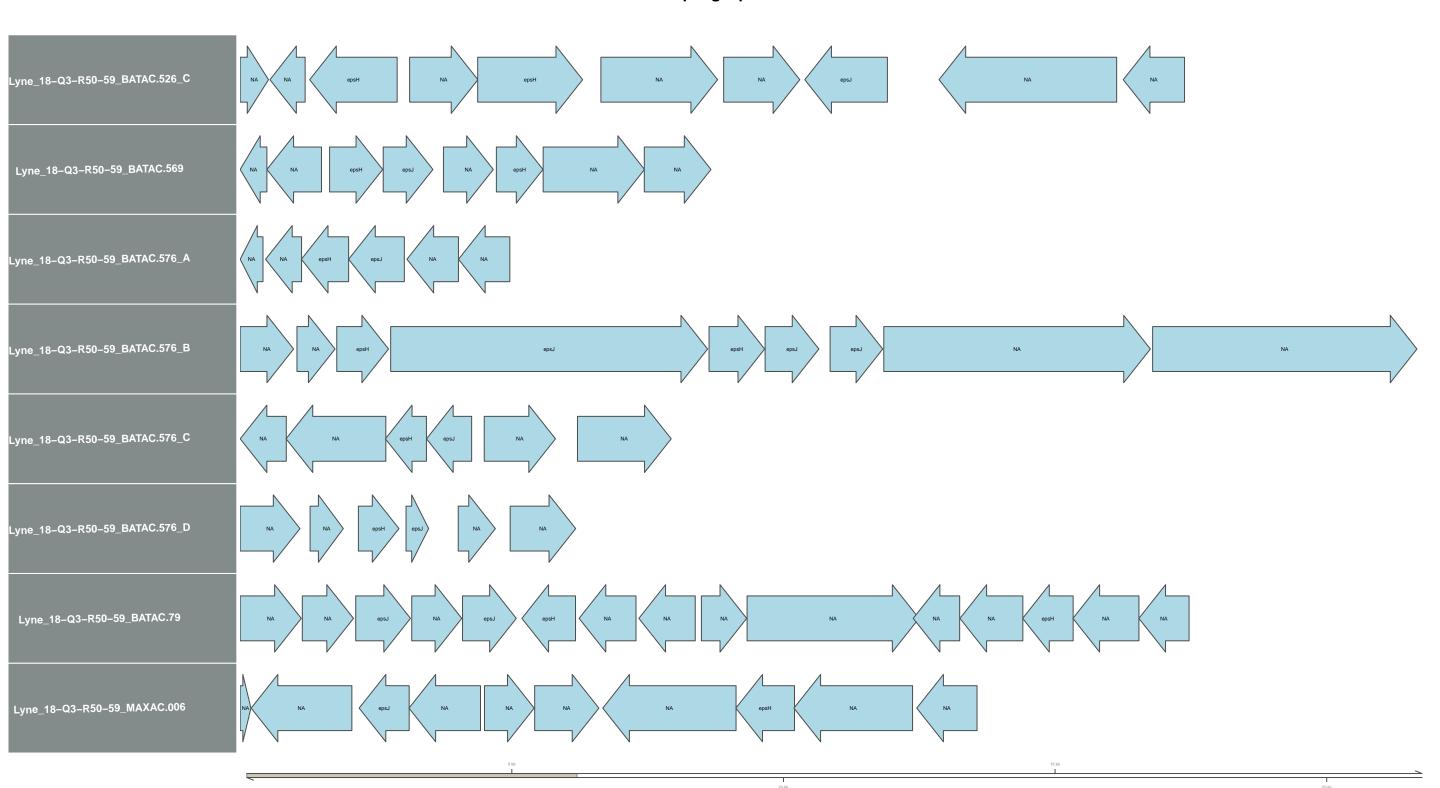


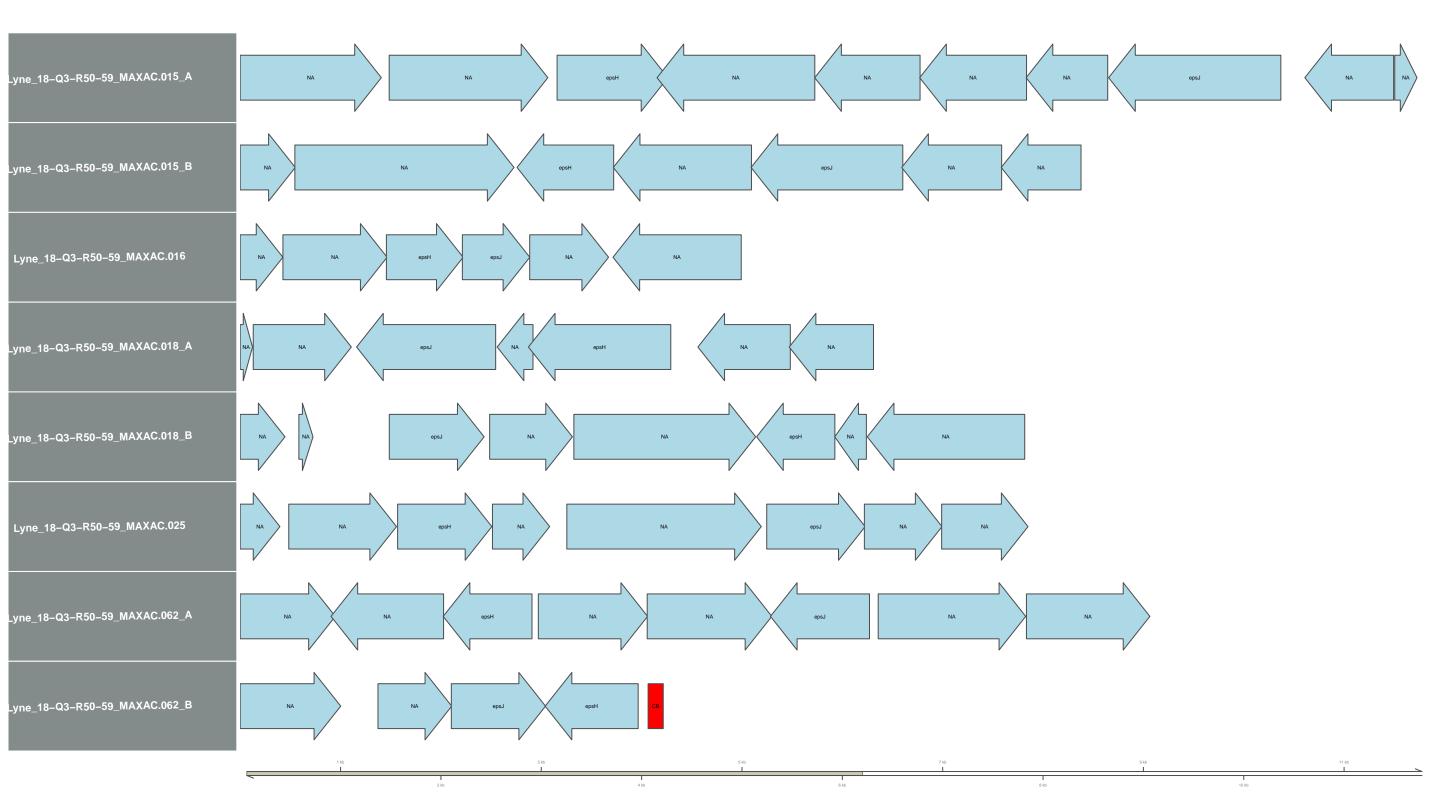


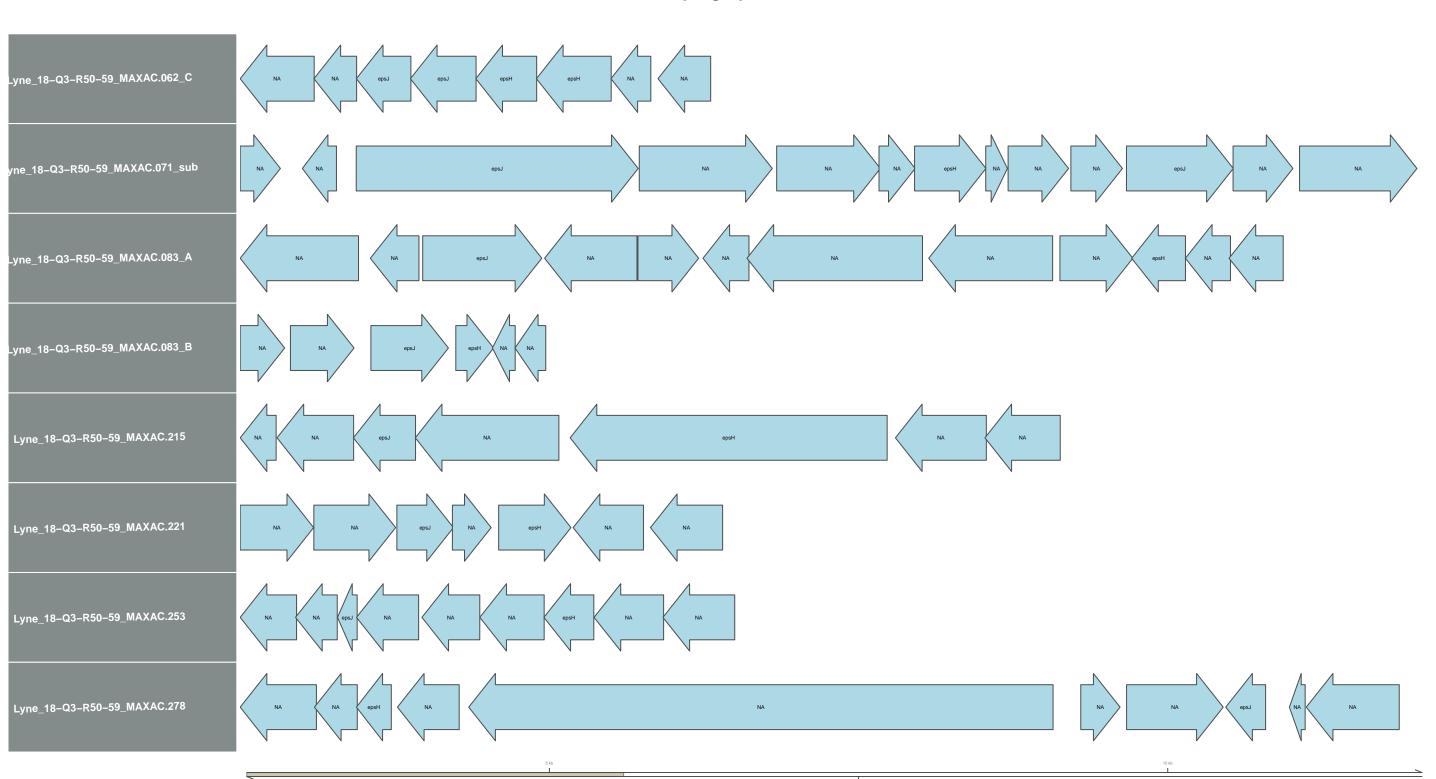


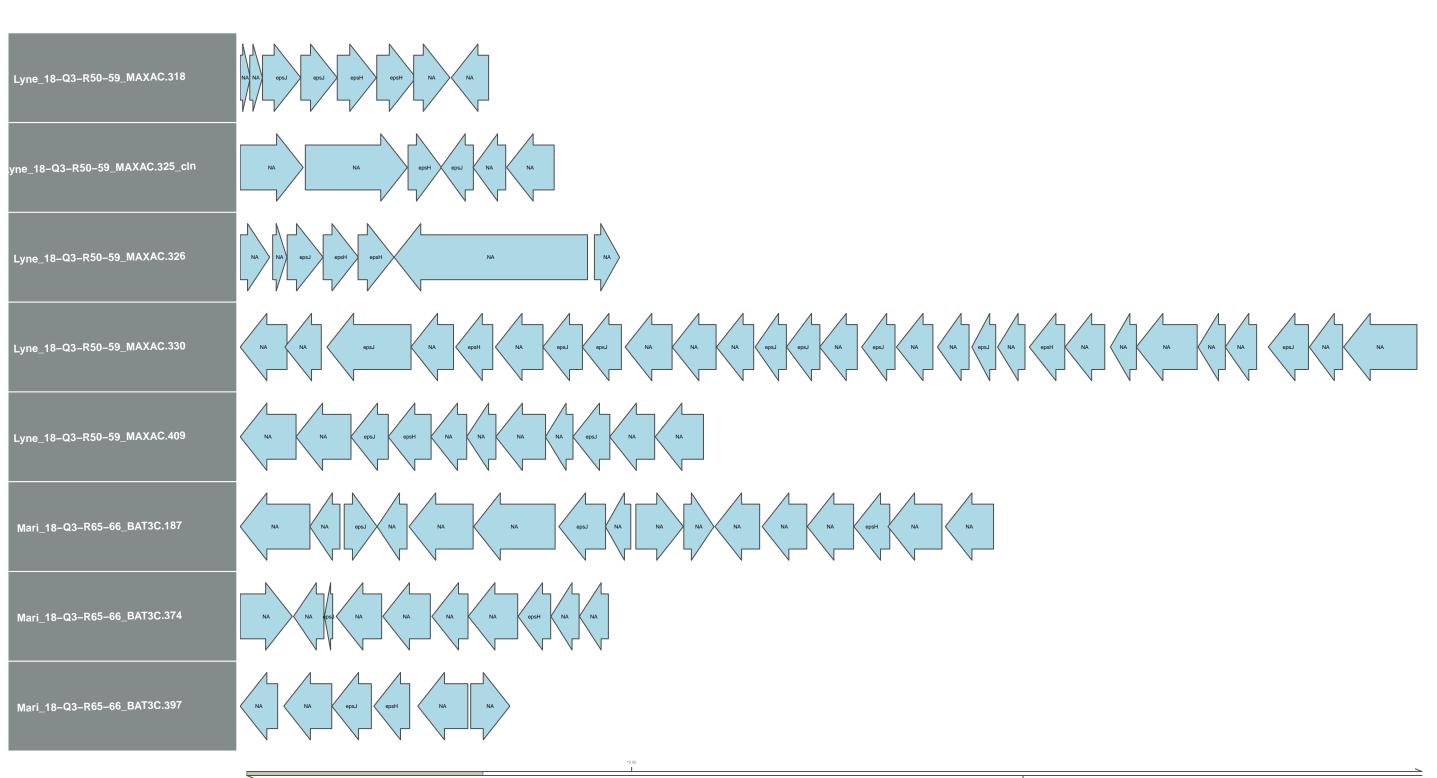




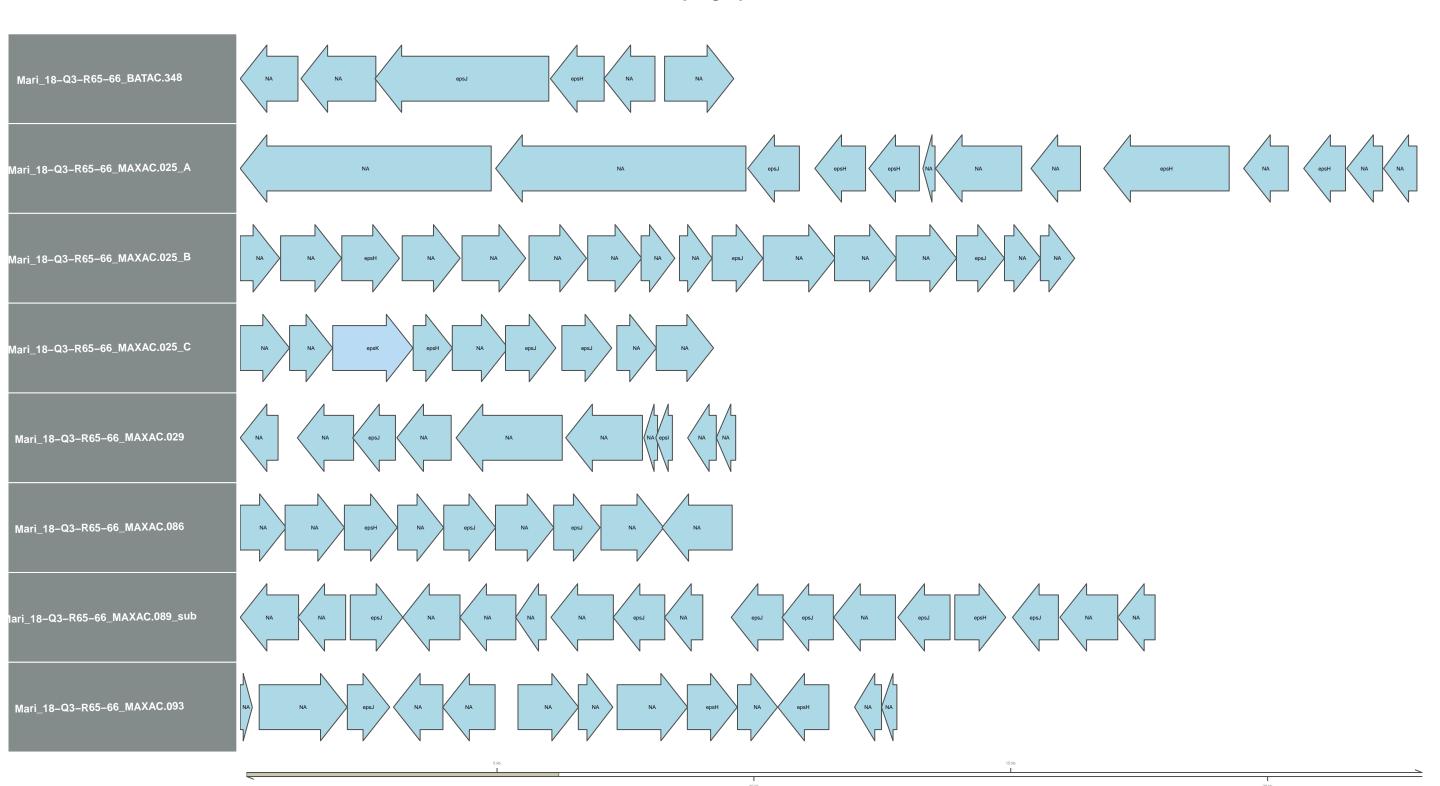


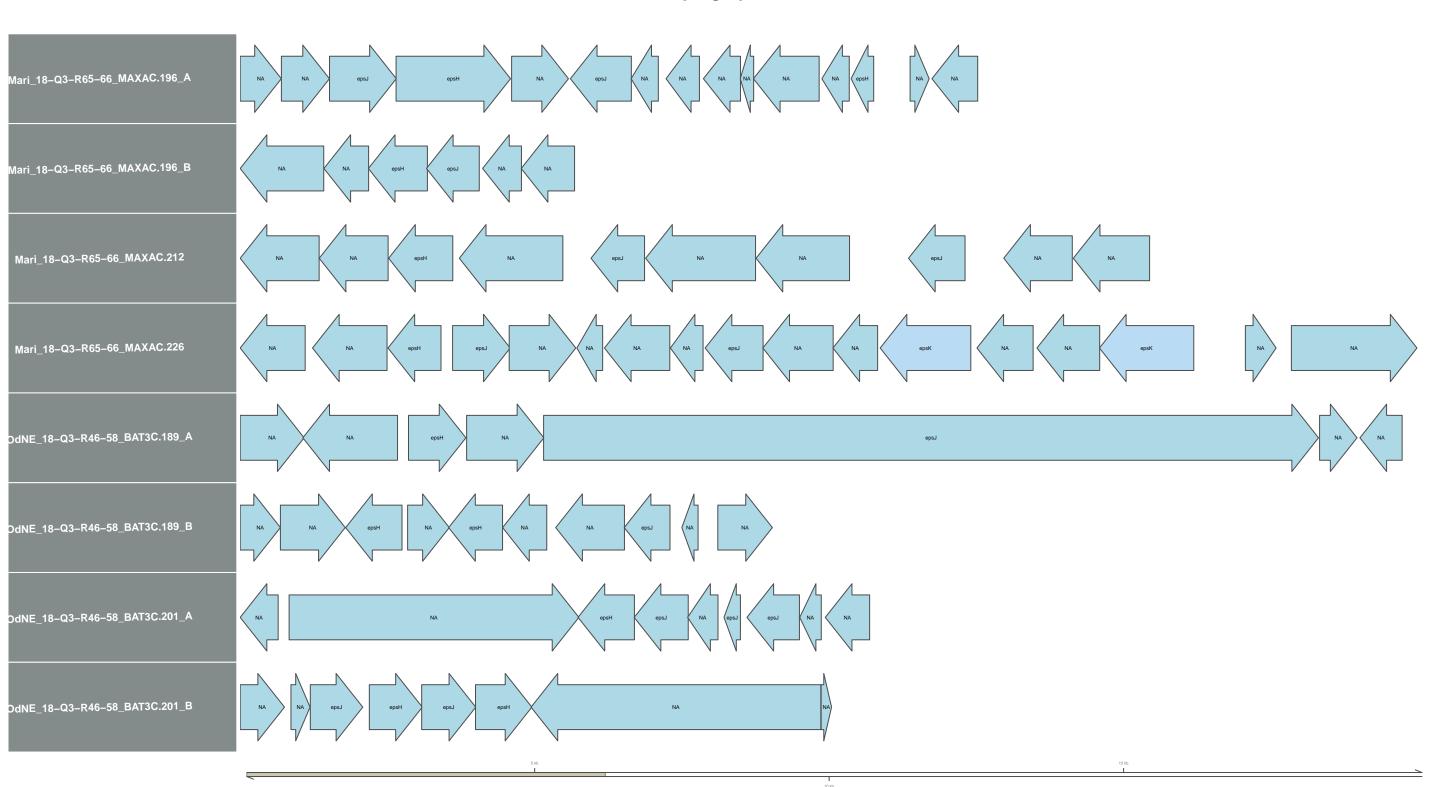


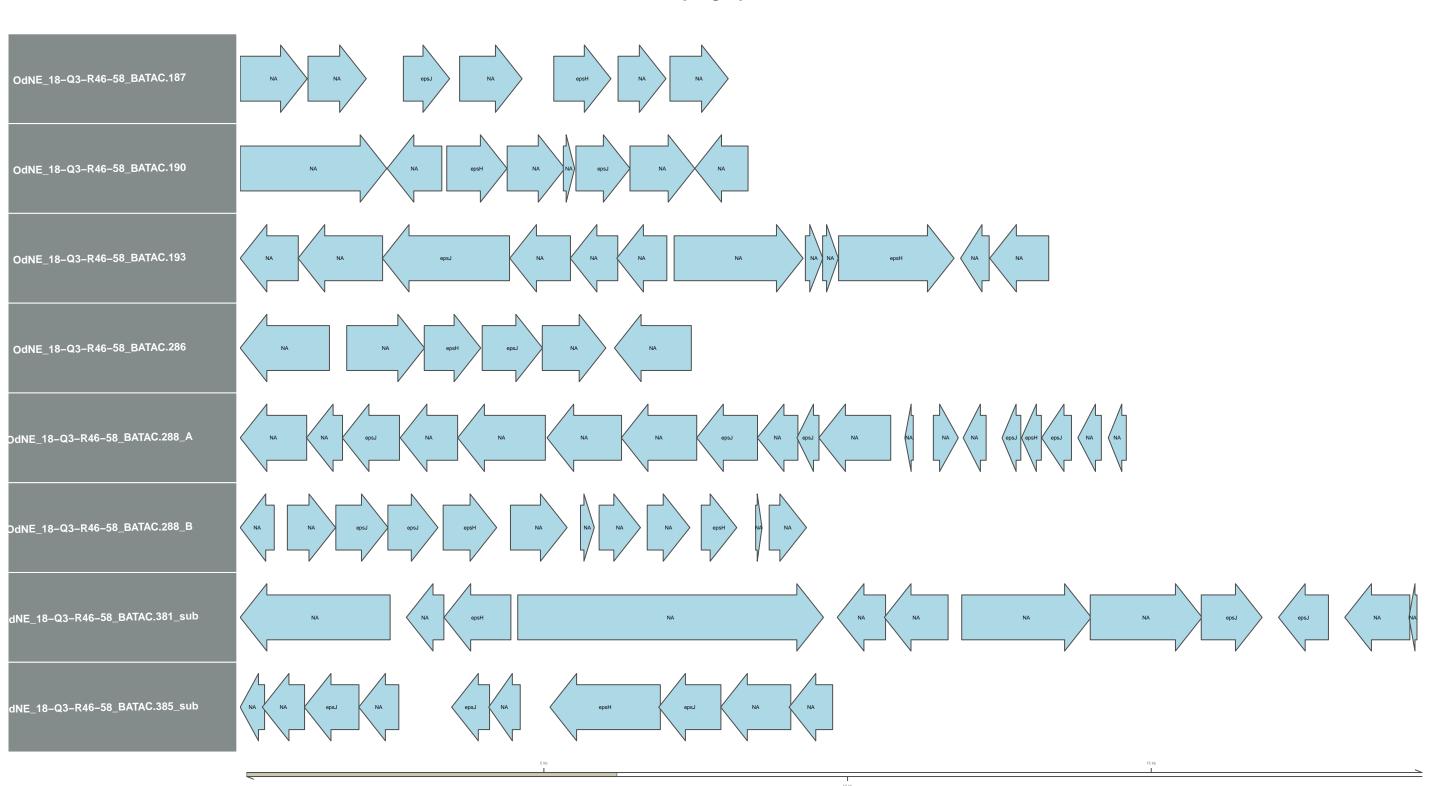


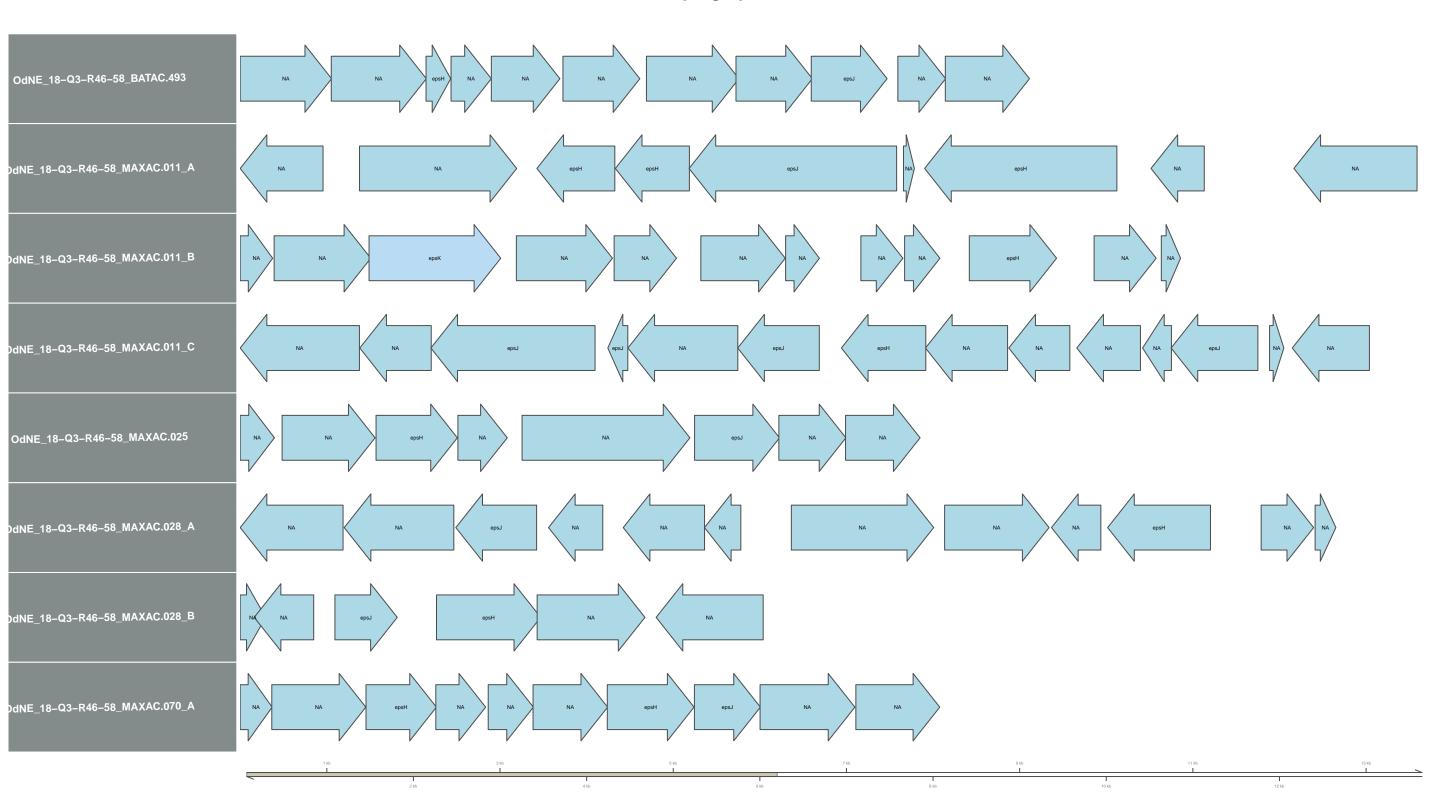


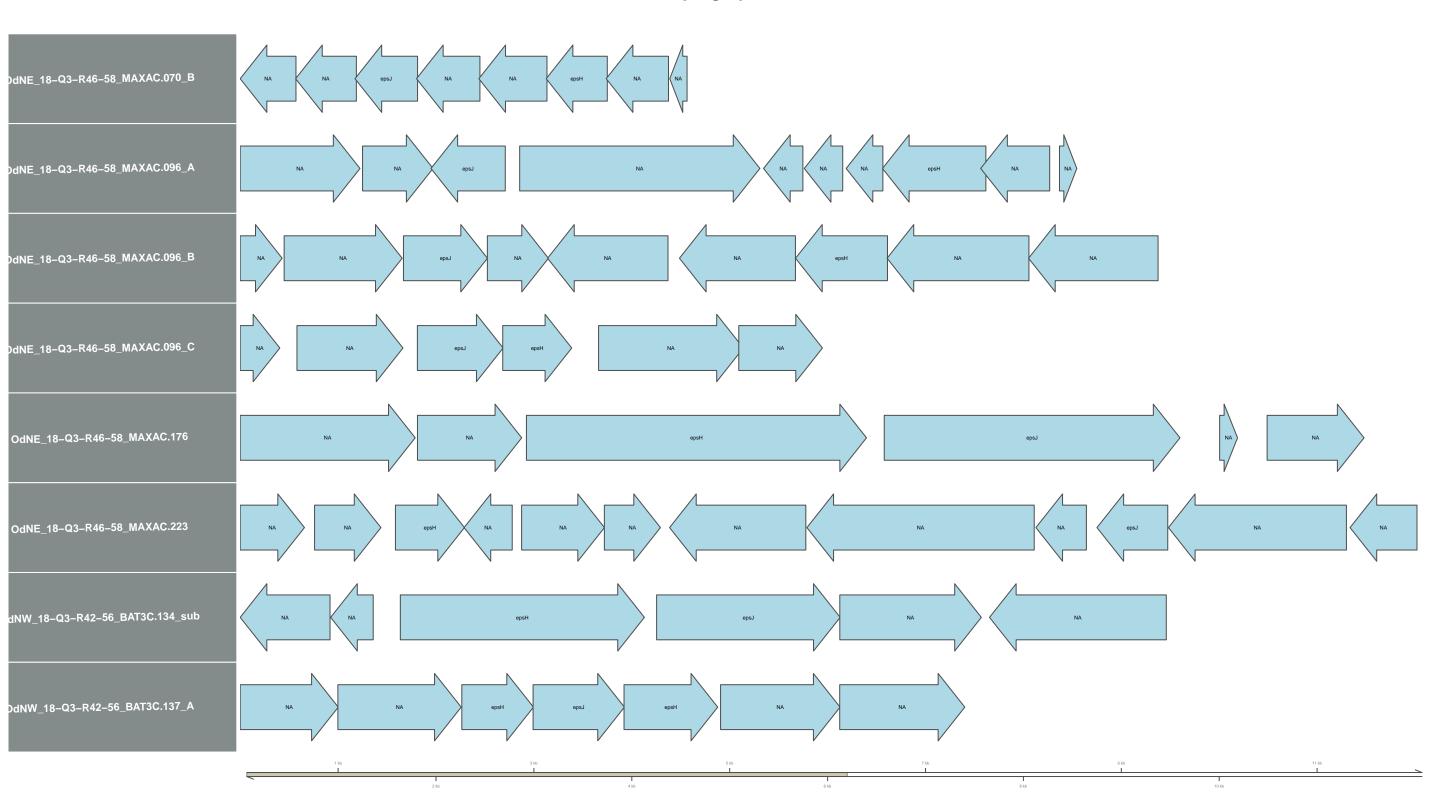
10 kb

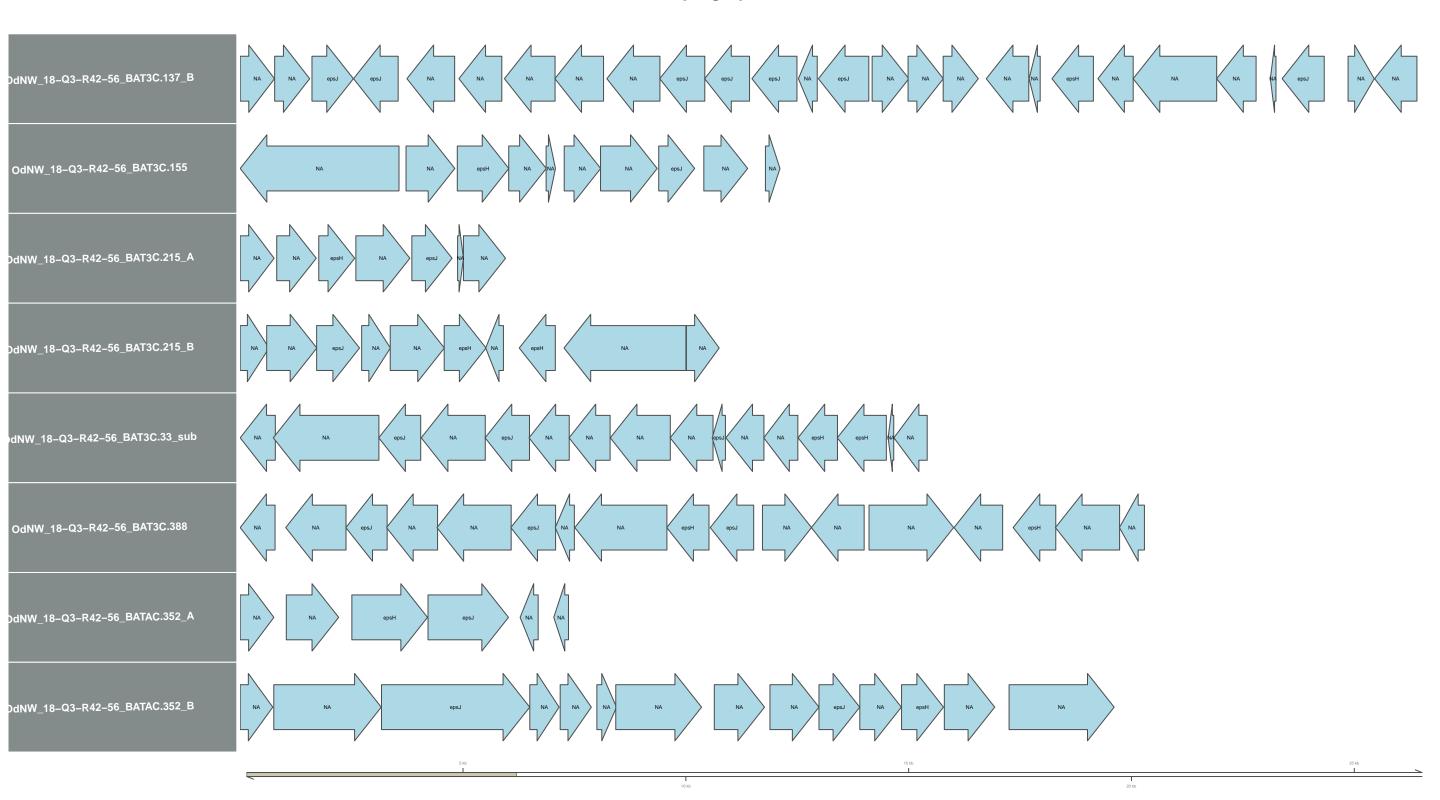


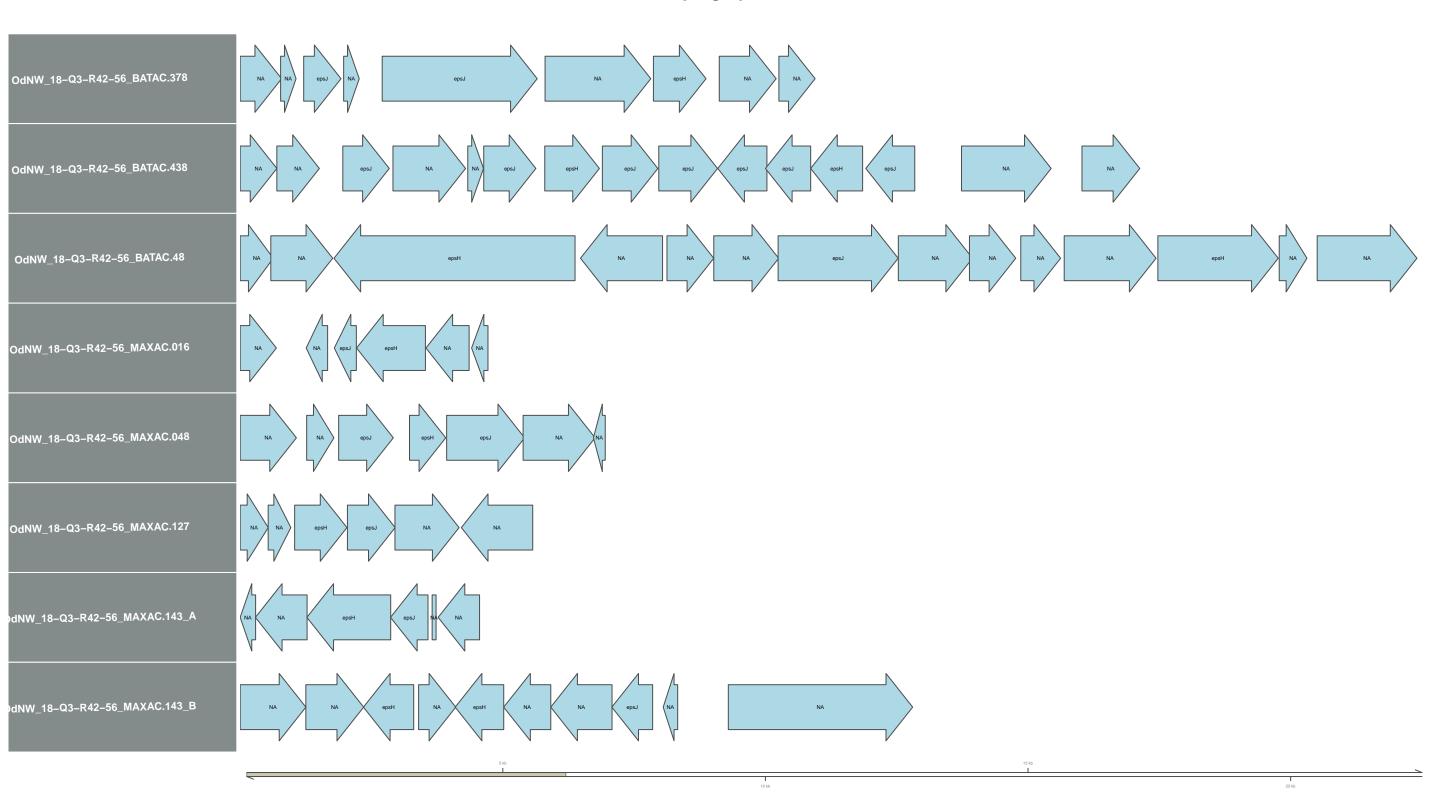


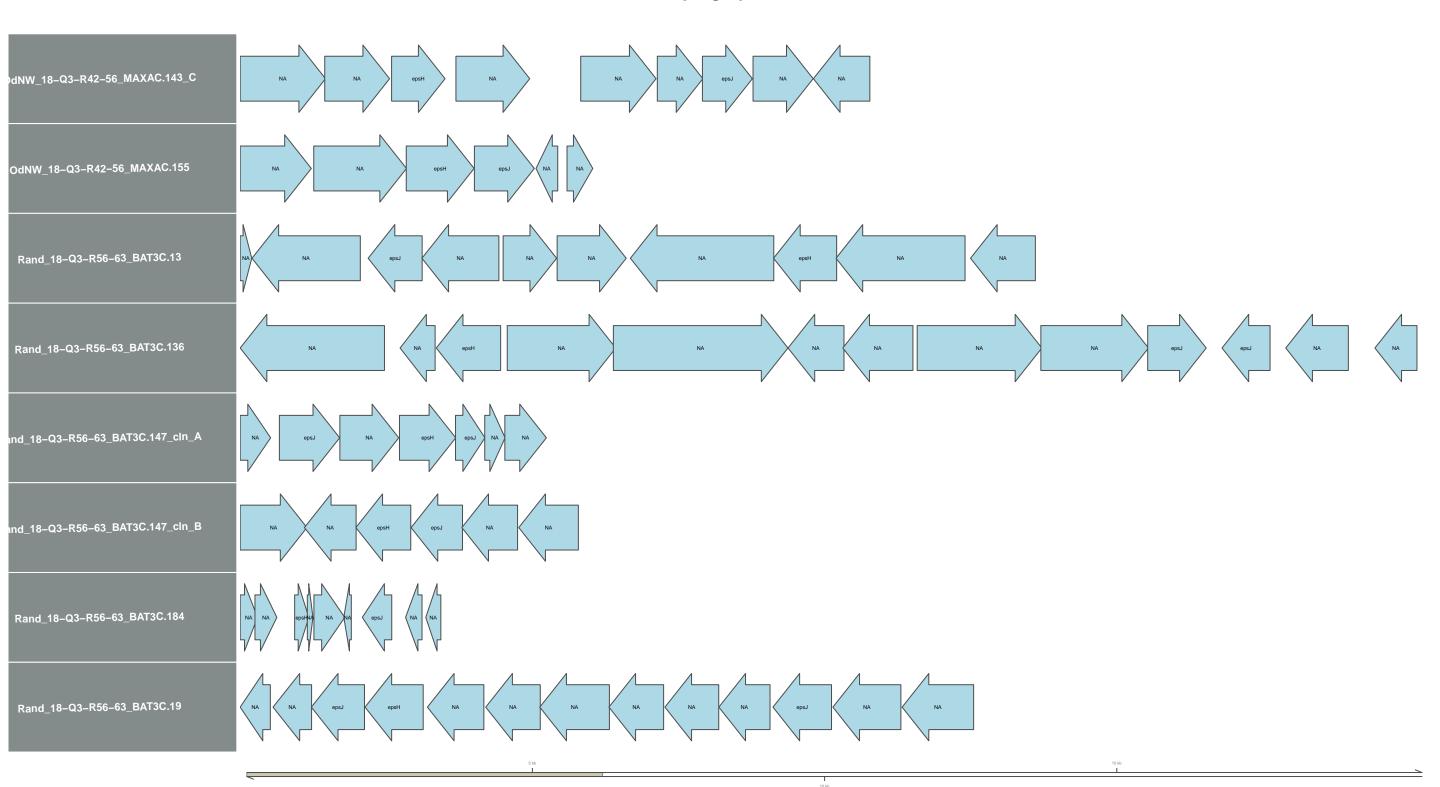


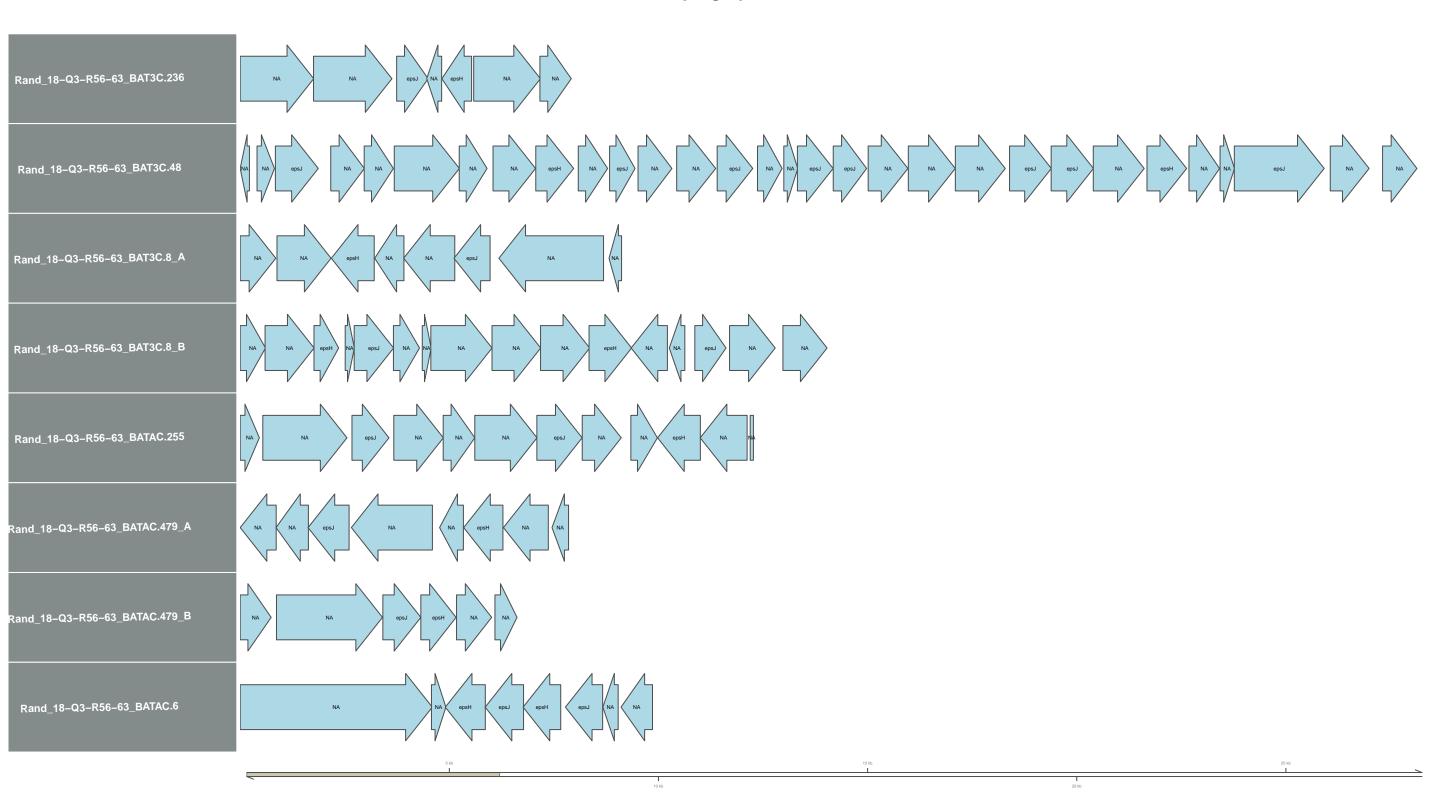


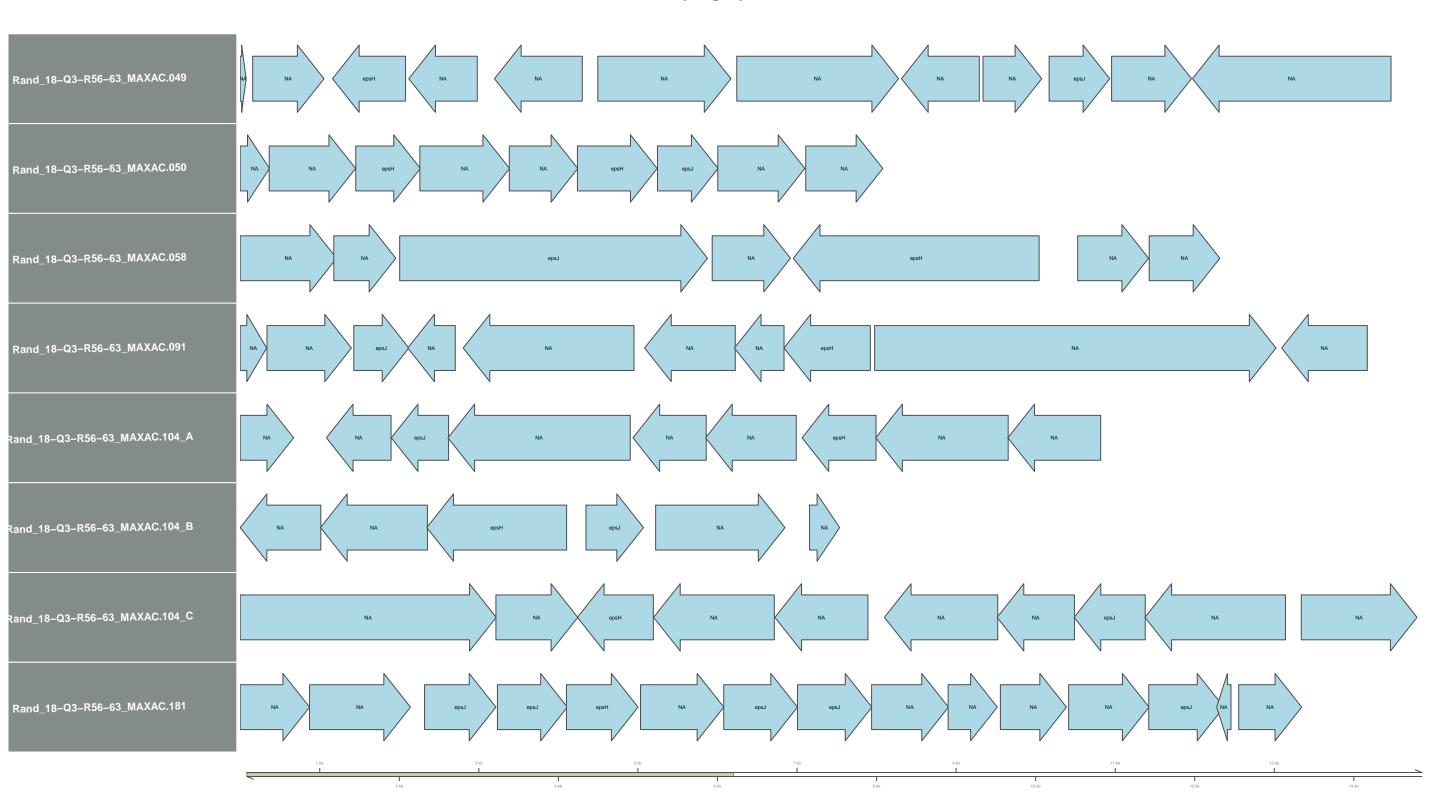


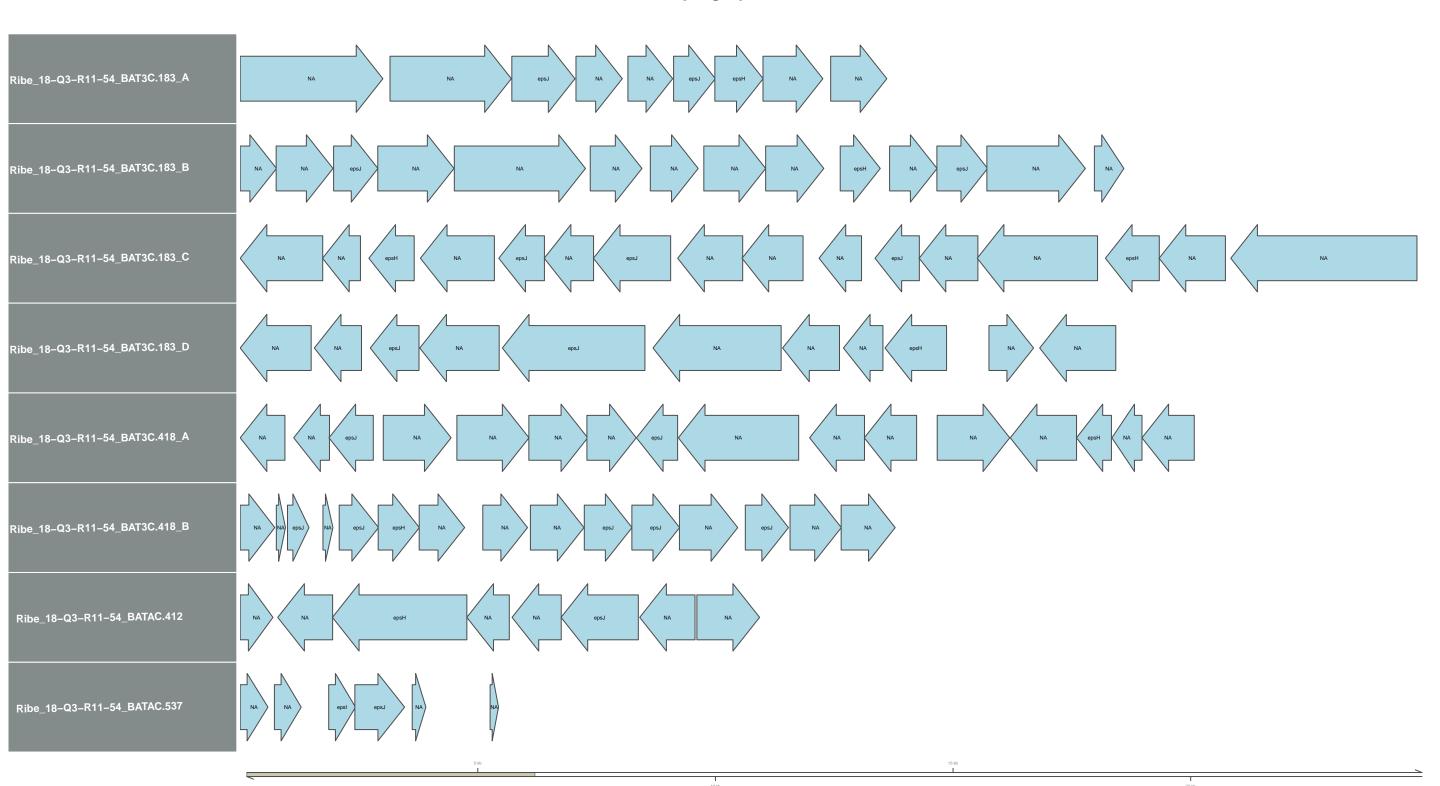


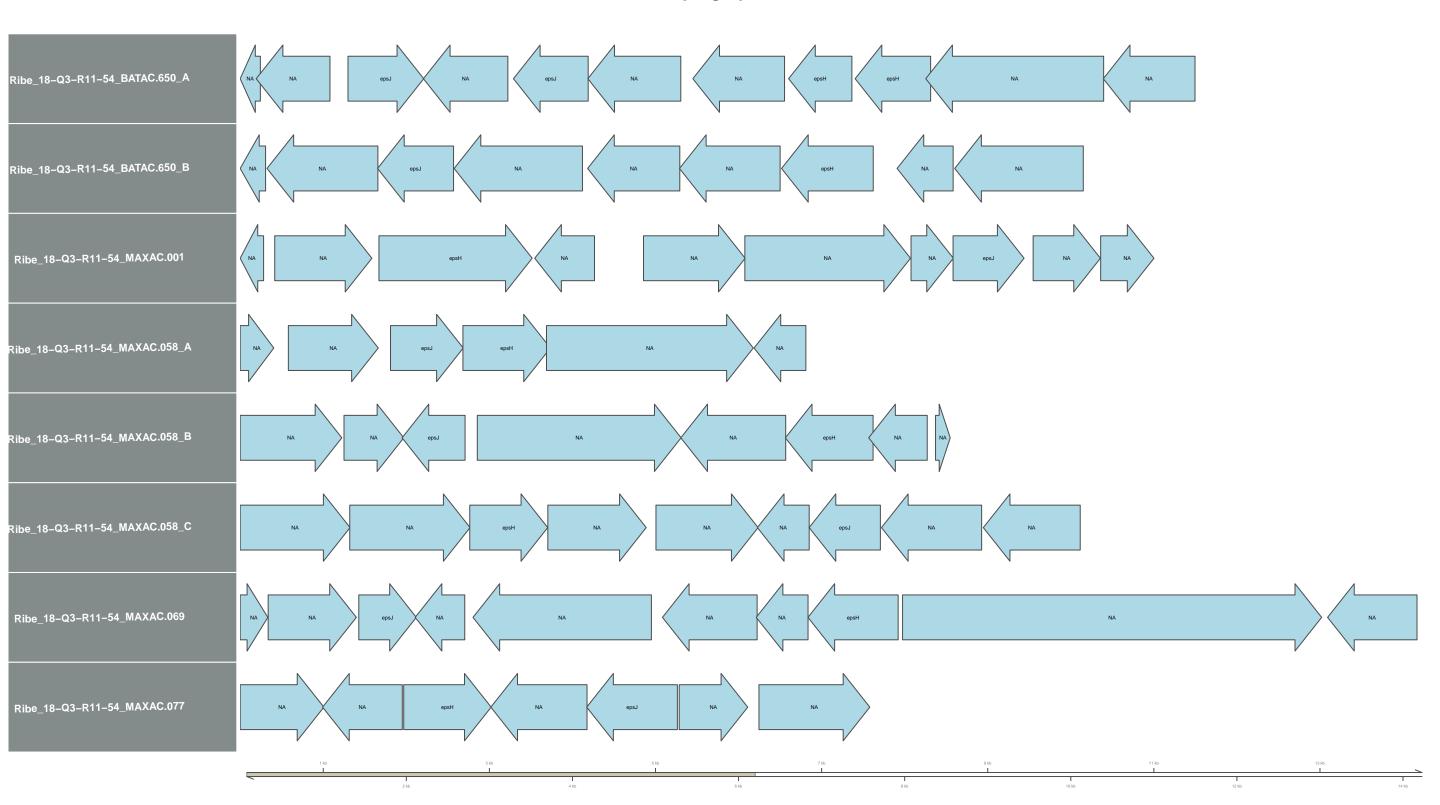


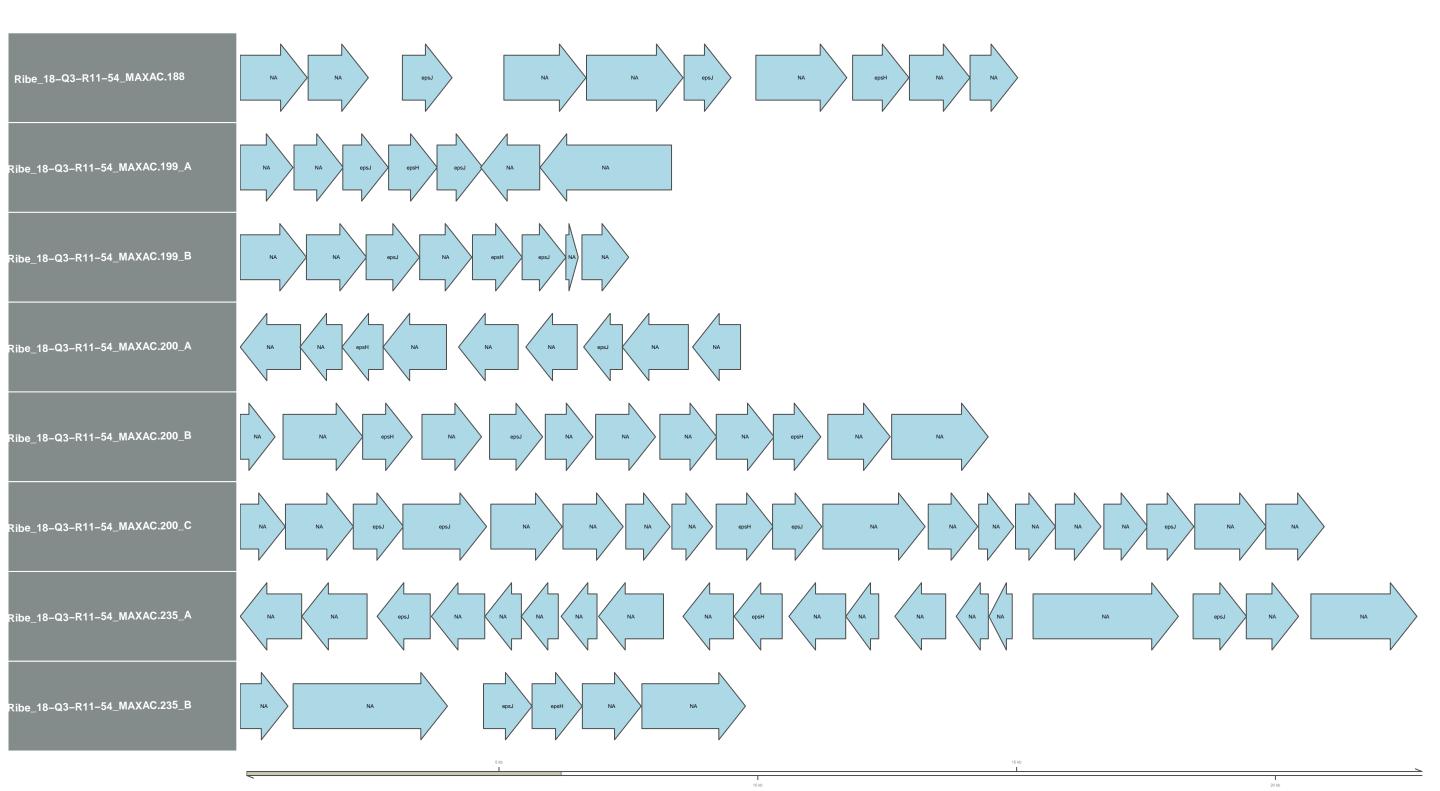


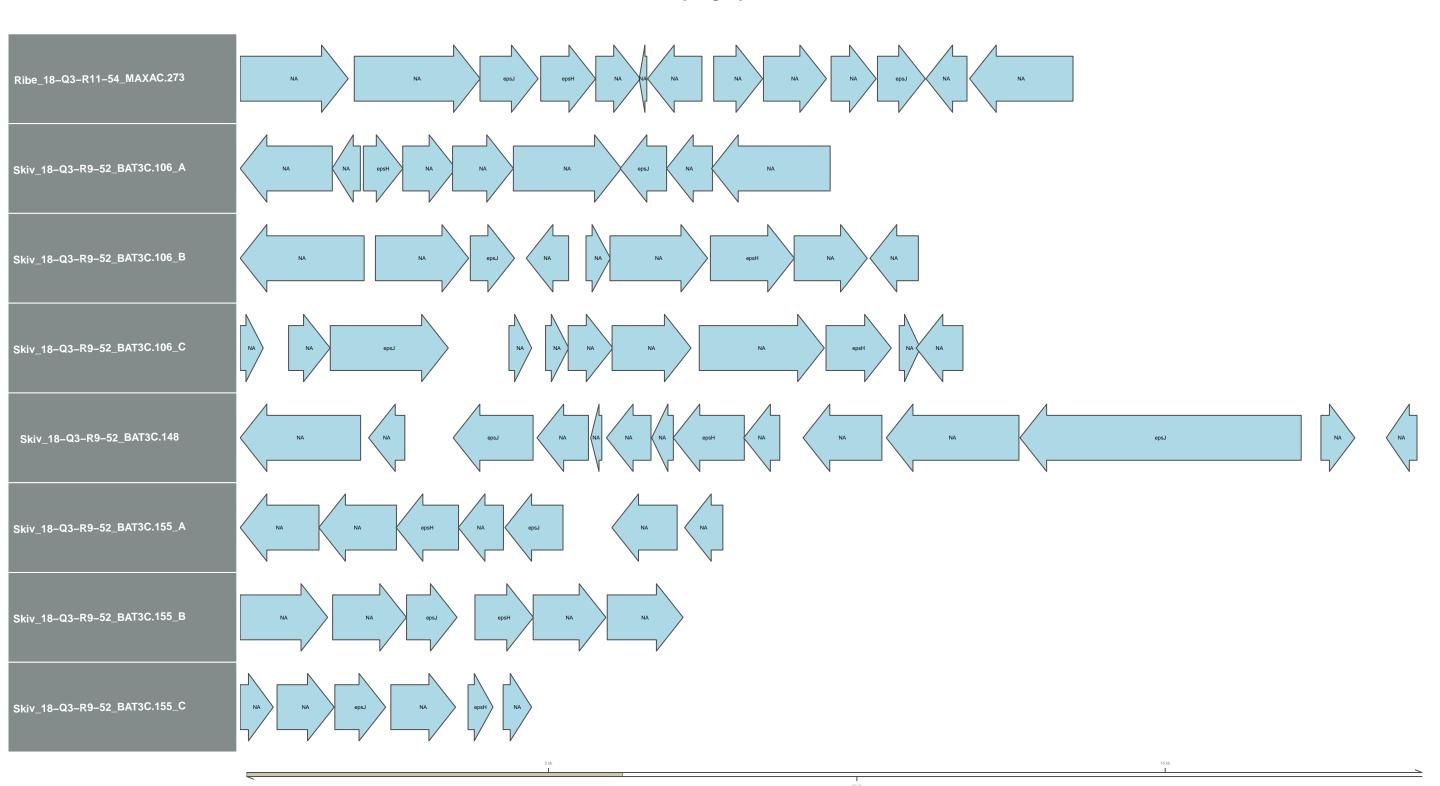


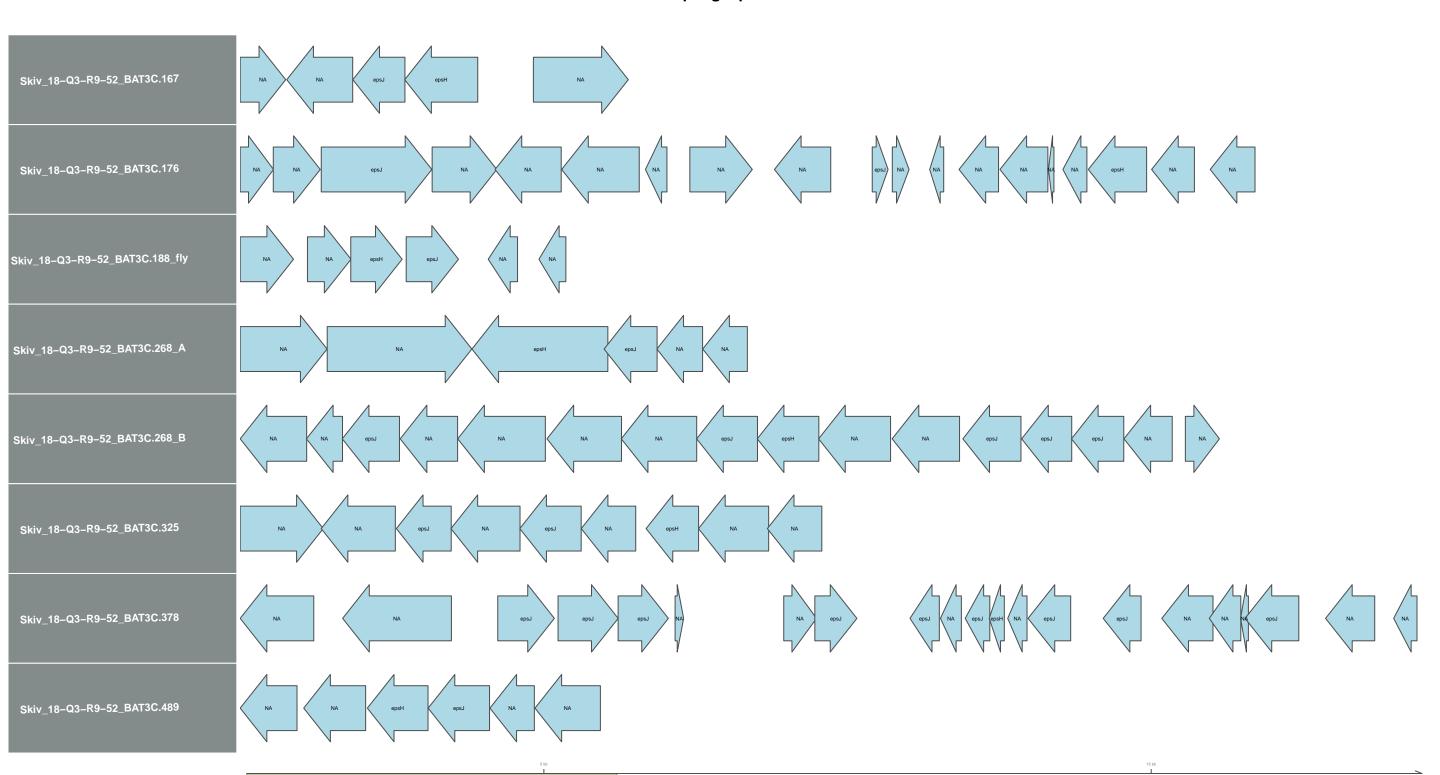




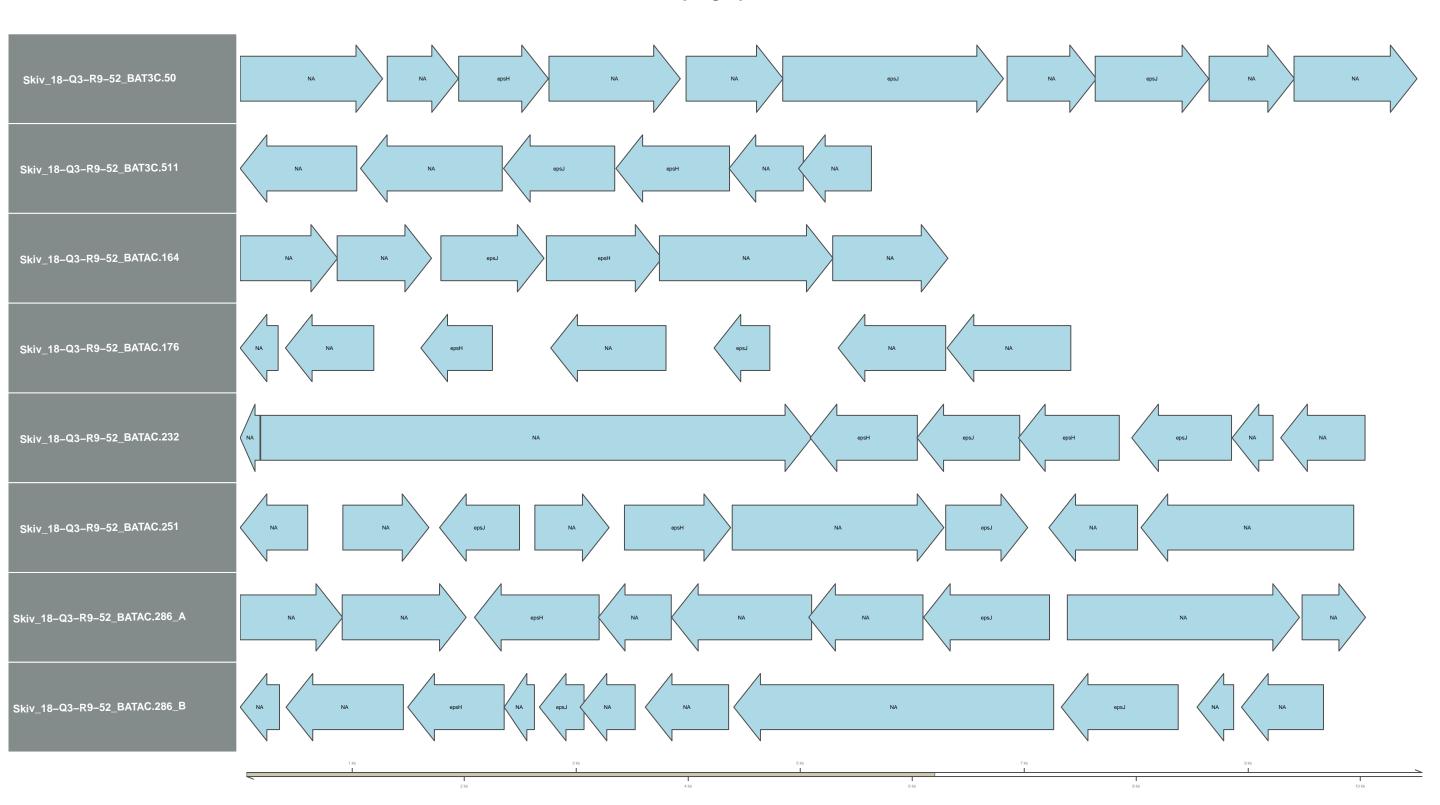


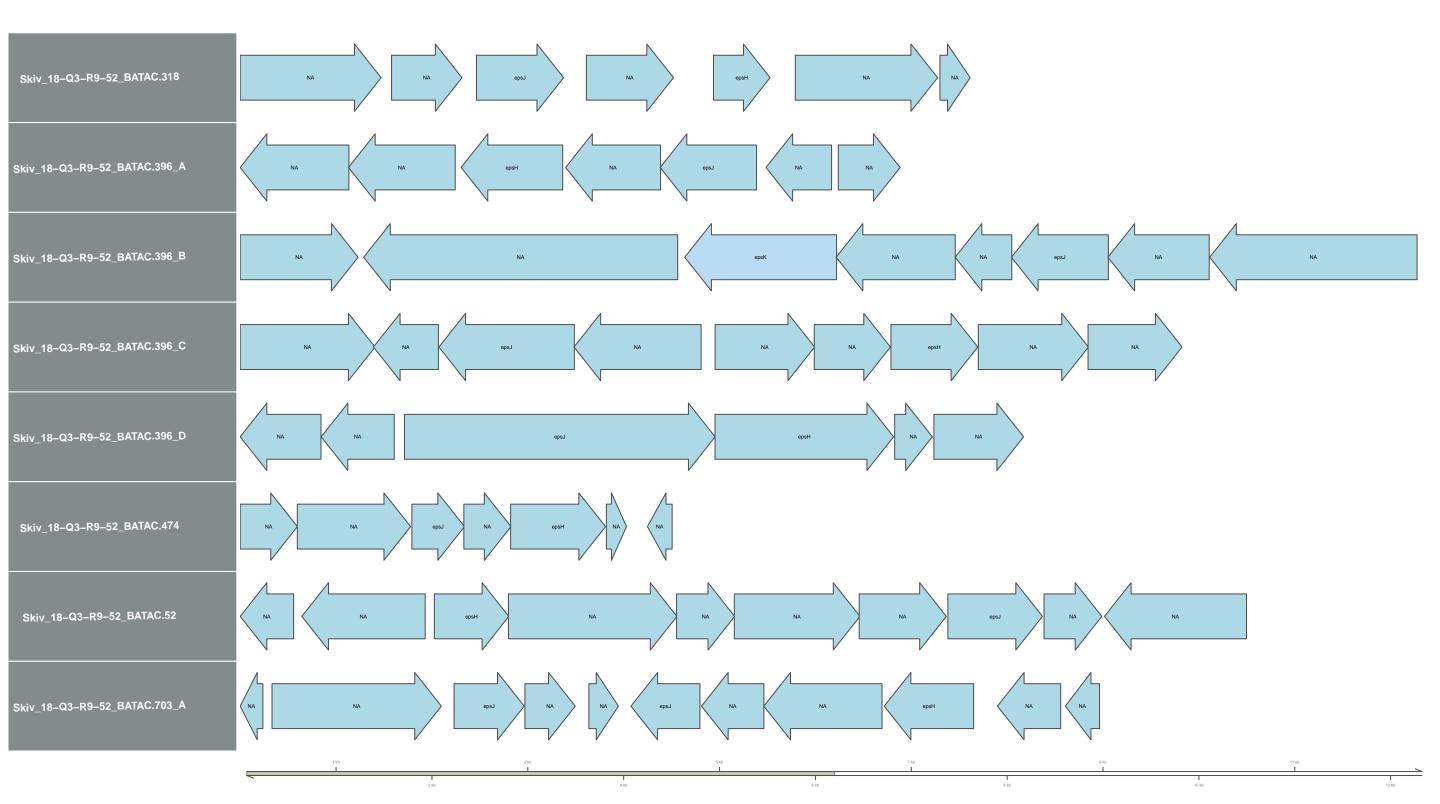


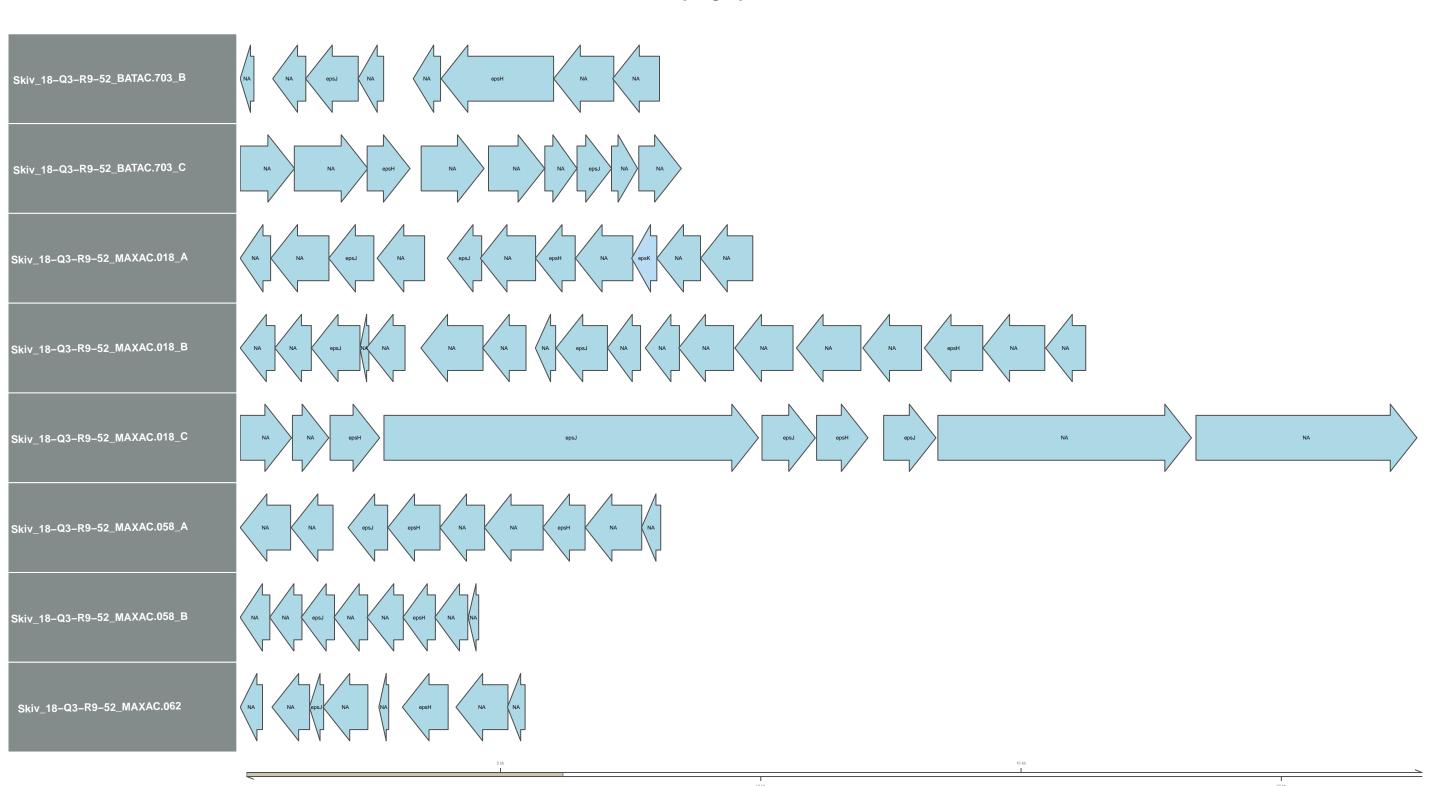


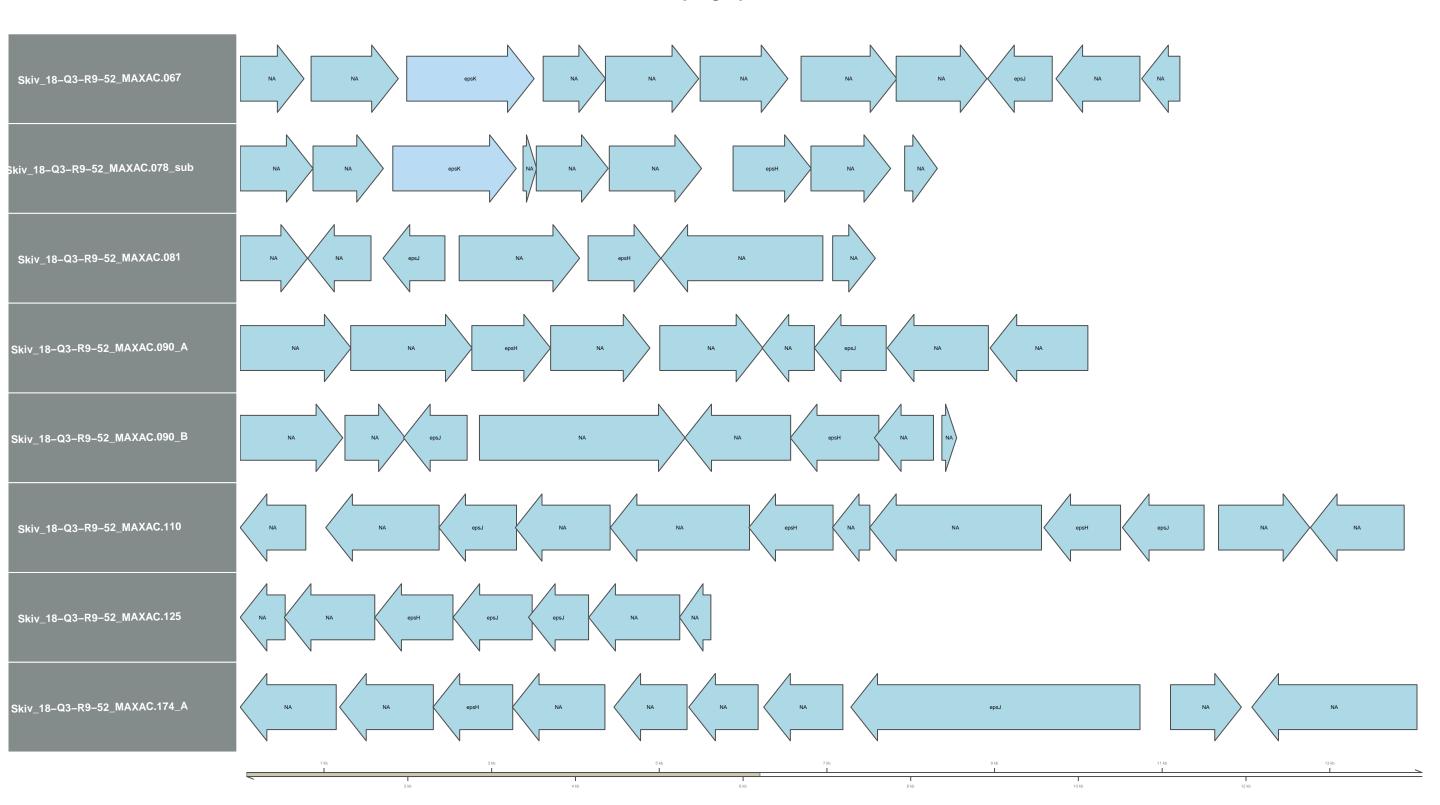


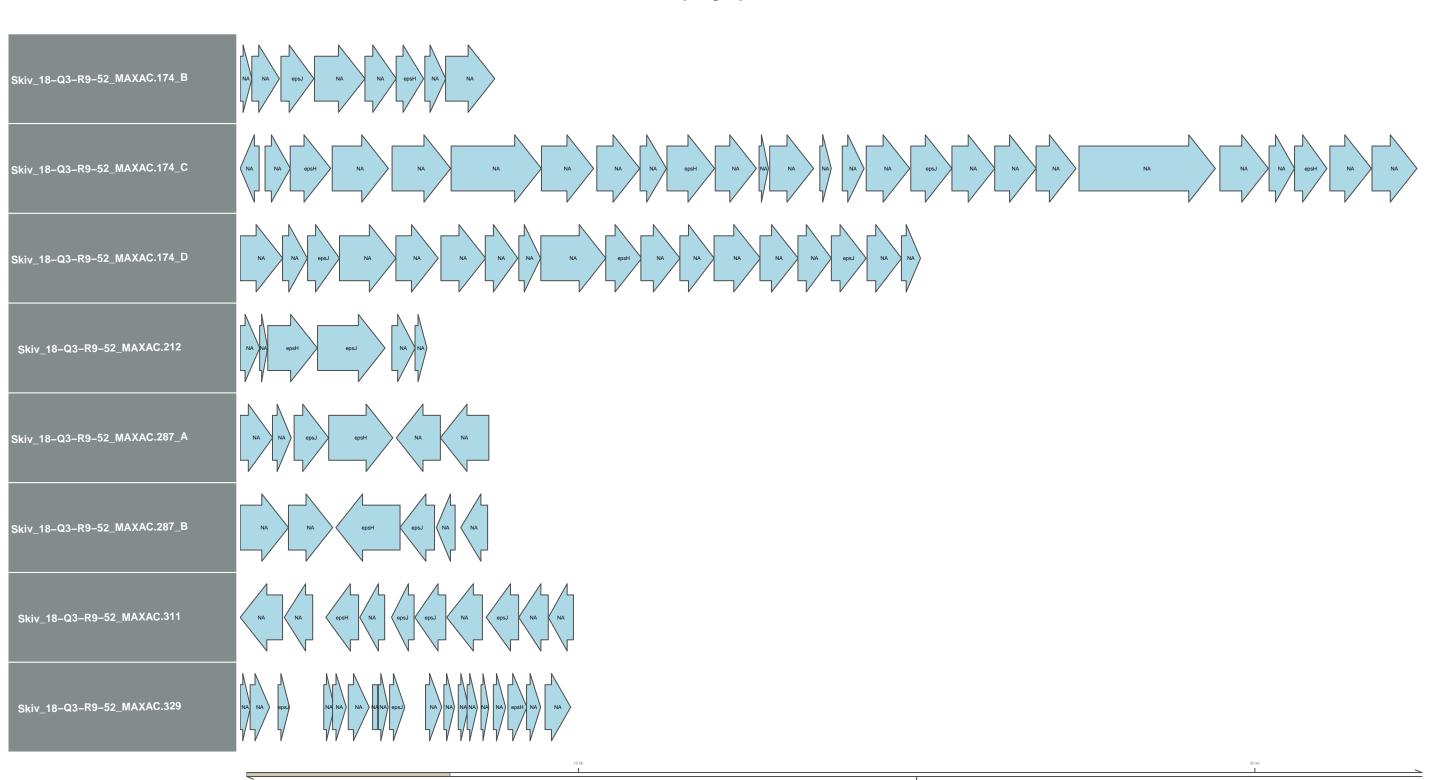
10.16

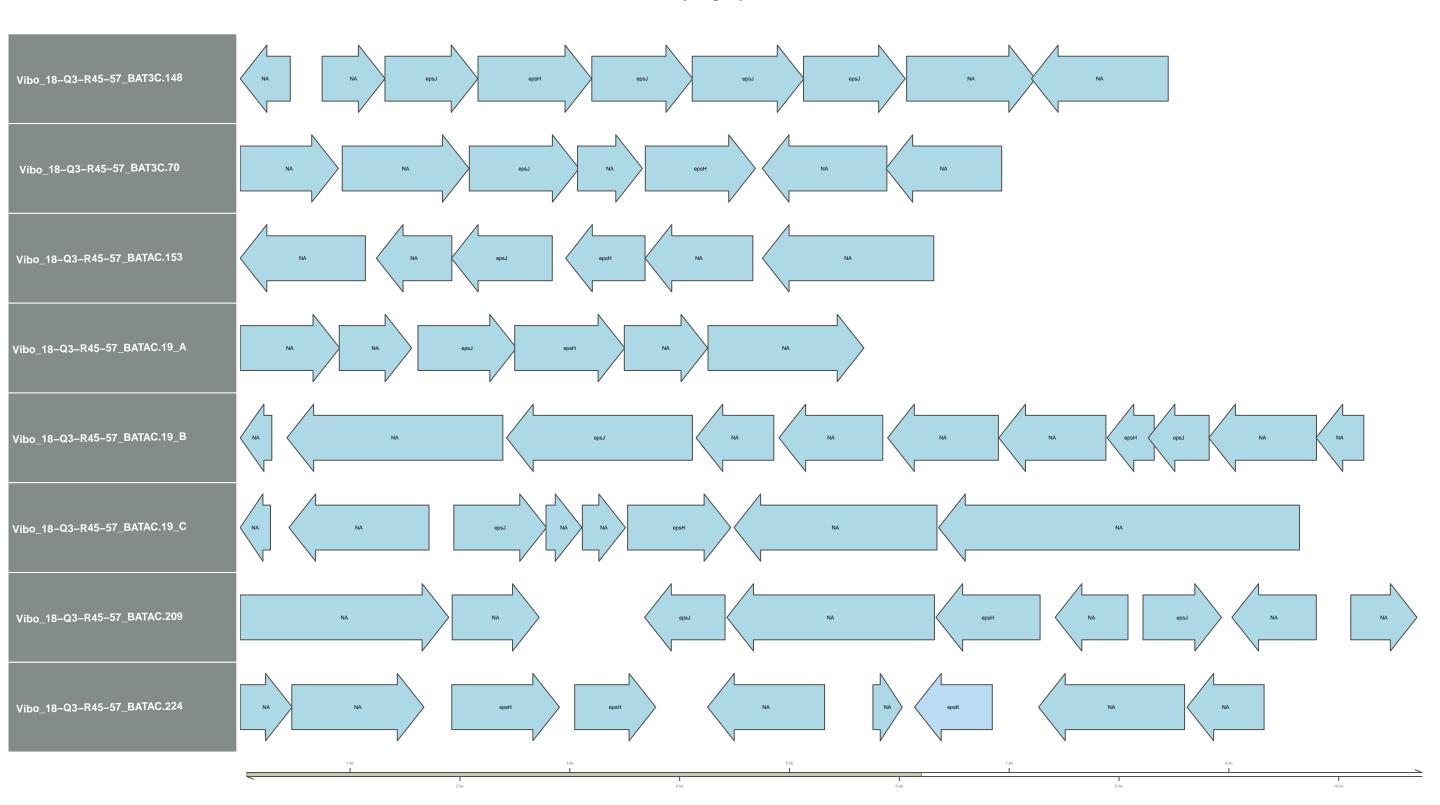


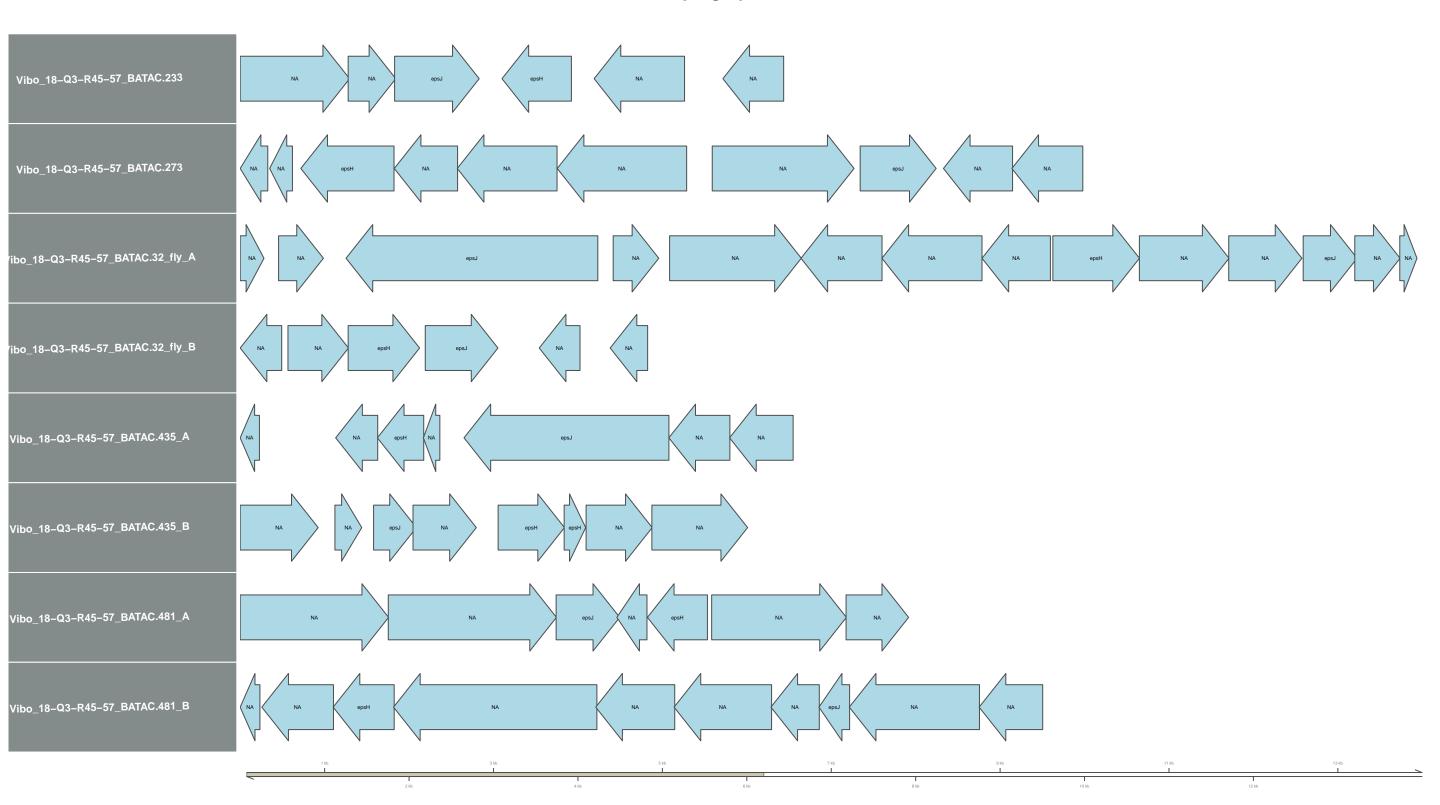


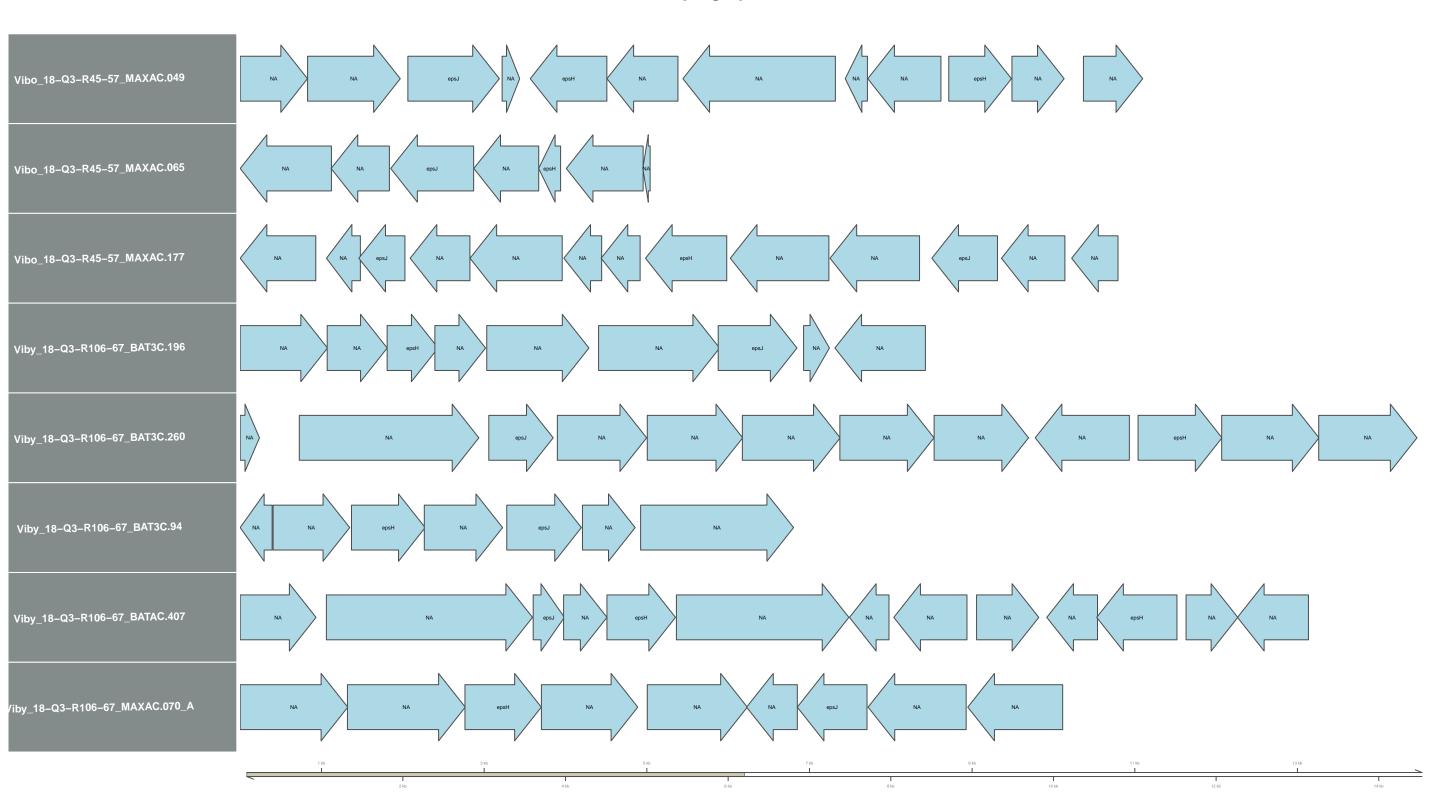


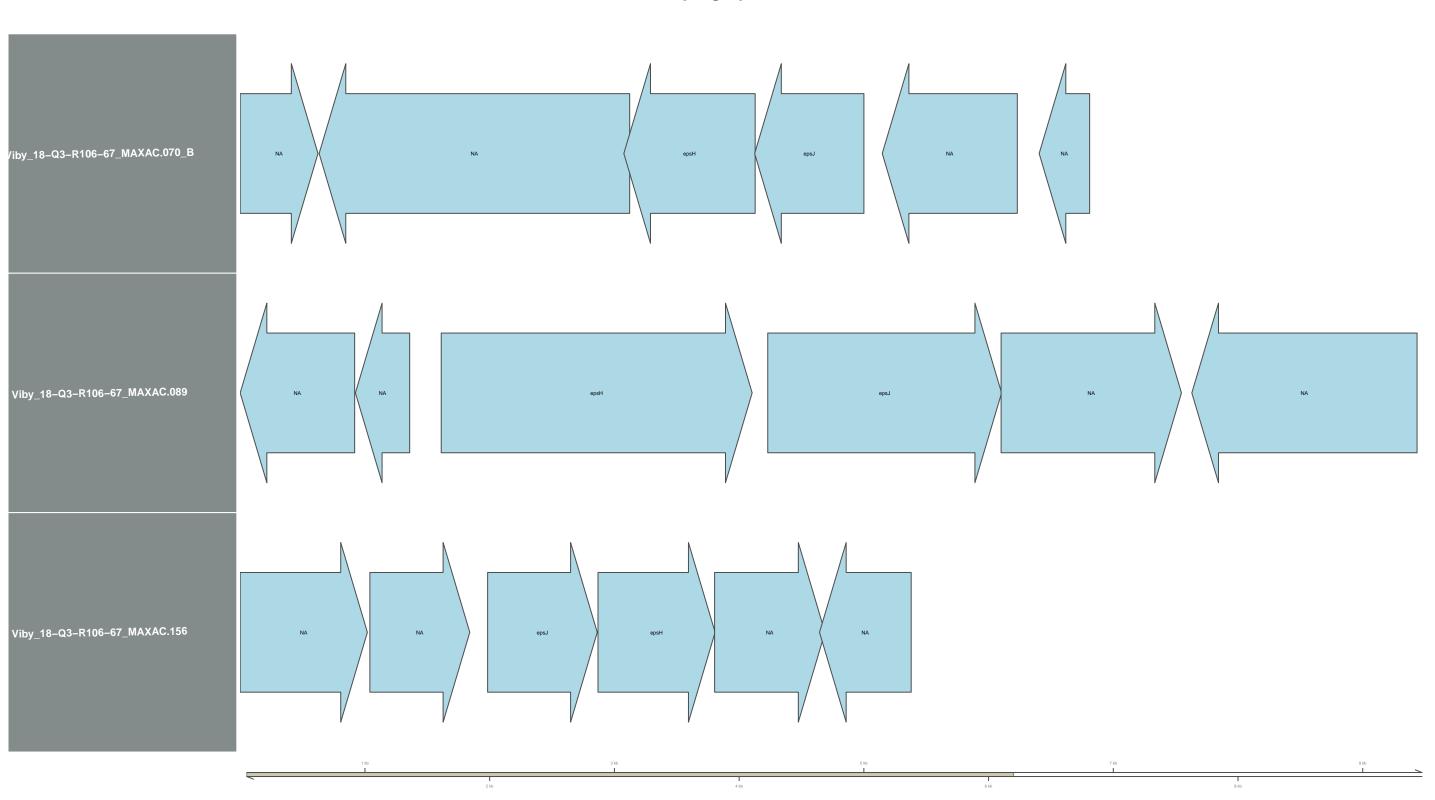












218	Fred_18-Q3-R57-64_MAXAC.148	d_Bacteria.pAABM5-125-24;c;o;t;g;s	tig01546635-10-10705100	834760	epsH	03397
219	Fred_18-Q3-R57-64_MAXAC.220	d_Bacteria.p_Firmicutes;c_Bacilli;o_Lactobacillales;f_Streptococcaceae;g_Streptococcus;s_Streptococcus infantarius	tig00001084-10-19102340	1605049	epsl	01815
220	Fred_18-Q3-R57-64_MAXAC.276	d_Bacteria;p_Myxococcota;c_Polyangia;o_Polyangiales;f_Sandaracinaceae;g_;s_	tig00000756-10-19749050	296864	epsH	00257
221	Fred_18-Q3-R57-64_MAXAC.288	d_Bacteria;p_Krumholzibacteriota;c_Krumholzibacteria;o_LZORAL124-64-63;f_LZORAL124-64-63;g_;s_	tig00000189-10-47221210	1270376	epsH	01029
222	Fred_18-Q3-R57-64_MAXAC.292	d_Bacteria:p_Proteobacteria:c_Gammaproteobacteria;o_SZUA-140;f_SZUA-140;g_;s_	tig00005391-10-5845880	381979	epsH	01770
223	Fred_18-Q3-R57-64_MAXAC.307	d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhodospirillales_A;t_2-12-FULL-67-15;g_;s_	tig00002301-10-12040470	21192	epsH	02419
224	Fred_18-Q3-R57-64_MAXAC.309	d_Bacteria:p_Planctomycetota;c_UBA1135;o_UBA1135;1_GCA-002686595;g_;s_	tig01547188-10-1808890	52019	epsH	04056
225	Fred_18-Q3-R57-64_MAXAC.324	d_Bacteria;p_Bdellovibrionota;c_Bdellovibrionia;o_Bdellovibrionales;f_UBA1609;g_;s_	tig00012640-10-2223950	200824	epsH	03880
226	Fred_18-Q3-R57-64_MAXAC.344	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Flavobacteriales;t_PHOS-HE28;g_PHOS-HE28;s_	tig00000591-10-23971360	2243593	epsH	01901
227	Fred_18-Q3-R57-64_MAXAC.354	d_Bacteria;p_Eisenbacteria;c_RBG-16-71-46;of_;g_;s_	tig00006339-10-5850710	361853	epsH	03065
228	Fred_18-Q3-R57-64_MAXAC.362	${\tt d_Bacteria:p_Proteobacteria:c_Alphaproteobacteria:o_Caulobacterales:f_Hyphomonadaceae:g_Hyphomonas:s_Macteria:p_Proteoba$	tig00003539-10-6943100	197075	epsH	02801
229	Fred_18-Q3-R57-64_MAXAC.373	d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Pseudomonadales;t_Cellvibrionaceae;g_Cellvibrio;s_	tig00351552-10-601000	18221	epsH	02526
230	Fred_18-Q3-R57-64_MAXAC.378	d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Rhodospirillales_A;t_2-12-FULL-67-15;g_;s_	tig00014337-10-1933470	127415	epsH	02135
231	Fred_18-Q3-R57-64_MAXAC.418	d_Bacteria;p_Planctomycetota;c_Phycisphaerae;o_UBA1845;f_UTPLA1;g_UTPLA1;s_	tig00010737-10-2712970	148127	epsH	00720
232	Fred_18-Q3-R57-64_MAXAC.421_sub_cln	d_Bacteria;p_Patescibacteria;c_Paceibacteria_A;o_Moranbacterales;f_UBA1568;g_;s_	tig00000963-10-10881080	454557	epsH	00484
233	Fred_18-Q3-R57-64_MAXAC.423	$lem:d_bacteria:p_Genmatimonadota:c_Genmatimonadetes;o_Genmatimonadales;t_Genmatimonadaceae;g_SCN-70-22;s_denmatimonadaceae;g_SCN-70-22;s_SCN-70-22;s_SCN-70-22;s_SCN-70-22;s_SCN-70-22;s_SCN-70-22;s_SCN-70-22;s_SCN-70-22;s_SCN-70-22;s_SCN-70-22;s_$	tig00351211-10-13155530	622320	epsH	03699
234	Hade_18-Q3-R52-61_BAT3C.212	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Chitinophagales;f_Chitinophagaceae;g_JJ008;s_	tig00005557-10-2803030	11102	epsH	02059
235	Hade_18-Q3-R52-61_BAT3C.250	$ d_Bacteria; p_Nitrospirota; c_Nitrospiria; o_Nitrospirales; f_Nitrospiraceae; g_Nitrospira; s_Nitrospira sp 002254365 $	tig00001106-10-11150850	989600	epsH	02086
236	Hade_18-Q3-R52-61_BAT3C.352	d_Bacteria;p_Actinobacteriota;c_Thermoleophilla;o_Solirubrobacterales;f_70-9;g_67-14;s_	tig00000830-10-14143930	782280	epsH	00769
237	Hade_18-Q3-R52-61_BATAC.14	d_Bacteria,p_Proteobacteria;c_Gammaproteobacteria;o_Pseudomonadales;f_UBA7239;g_UBA7239;s_UBA7239 sp002333095	tig00025864-10-903170	42824	epsH	02174
238	Hade_18-Q3-R52-61_BATAC.282	d_Bacteria,p_Proteobacteria;c_Gammaproteobacteria;o_Pseudomonadales;f_UBA5518;g_UBA5518;s_UBA5518 sp002396625	tig01674535-10-3636420	310265	epsH	04141
239	Hade_18-Q3-R52-61_BATAC.287	d_Bacteria;p_Acidobacteriota;c_Blastocatellia;o_Pyrinomonadales;f_;g_;s_	tig00002106-10-7009290	449387	epsH	00369
240	Hade_18-Q3-R52-61_BATAC.34	d_Bacteria.p_Bacteroidota;c_Bacteroidia,o_Chitinophagales;f_Chitinophagaceae;g_JJ008;s_	tig00007532-10-2521520	49267	epsH	03085
241	Hade_18-Q3-R52-61_BATAC.364	${\tt d_Bacteria;p_Proteobacteria;c_Gamma proteobacteria;o_Burkholderiales;f_Rhodocyclaceae;g_Dechloromonas;s_D$	tig00010736-10-2134480	82003	epsH	01239
242	Hade_18-Q3-R52-61_BATAC.47	d_Bacteria;p_Actinobacteriota;c_Acidimicrobiia;o_Microtrichales;f_llumatobacteraceae;g_UBA668;s_UBA668 sp002299395	tig00008890-10-2749280	195421	epsH	03424
243	Hade_18-Q3-R52-61_BATAC.713	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_AKYH767;f_b-1780;g_UBA4416;s_	tig00019583-10-1272090	86092	epsH	02941
244	Hade_18-Q3-R52-61_MAXAC.023	d_Bacteria.p_Nitrospirota;c_Nitrospiria;o_Nitrospirales;f_Nitrospiraceae;g_Nitrospira_A;s_Nitrospira_A sp900170025	tig00005739-10-4096140	141515	epsH	01191
245	Hade_18-Q3-R52-61_MAXAC.028	d_Bacteria;p_Bacteroidota;c_Ignavibacteria;o_SJA-28;f_B-1AR;g_UBA2330;s_	tig00012776-10-1965300	115945	epsH	02213
246	Hade_18-Q3-R52-61_MAXAC.042	d_Bacteria:p_Chloroflexota;c_Anaerolineae;o_Anaerolineales;f_envOPS12.g_OLB14;s_	tig00014098-10-1344850	123387	epsH	01174
247	Hade_18-Q3-R52-61_MAXAC.056	d_Bacteria;p_Proteobacteria;c_Alphaproteobacteria;o_Sphingomonadales;f_Sphingomonadaceae;g_Ga0077559;s_	tig00008994-10-92450	1927	epsH	02501
248	Hade_18-Q3-R52-61_MAXAC.079	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Chitinophagales;f_;g_;s_	tig00006216-10-3745710	363060	epsH	01101
249	Hade_18-Q3-R52-61_MAXAC.102	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_AKYH767-A;f_2013-40CM-41-45;g_;s_	tig00001256-10-8309610	81173	epsH	00072
250	Hade_18-Q3-R52-61_MAXAC.236_sub	d_Bacteria:pChloroflexota:cAnaerolineae;oPromineofilales;f;g;s	tig00011437-10-2015380	178595	epsH	00963
251	Hade_18-Q3-R52-61_MAXAC.304	d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Rhodocyclaceae;g_Propionivibrio;s_	tig01674317-10-6687790	599969	epsH	02472
252	Hade_18-Q3-R52-61_MAXAC.360	d_Bacteria;p_Acidobacteriota;c_Blastocatellia;o_Pyrinomonadales;f_Pyrinomonadaceae;g_OLB17;s_	tig00000009-10-41445700	796448	epsH	00667
253	Hirt_18-Q3-R61-65_BAT3C.134	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Chitinophagales;f_;g_;s_	tig00001380-10-1883210	96225	epsH	01066
254	Hirt_18-Q3-R61-65_BAT3C.362_fly	d_Bacteria;p_Patescibacteria;c_Saccharimonadia;o_Saccharimonadales;f_Saccharimonadaceae;g_;s_	contig_circular	244062	epsH	00270
255	Hirt_18-Q3-R61-65_BAT3C.386	d_Bacteria;p_Actinobacteriota;c_Actinobacteria;o_Actinomycetales;t_Dermatophilaceae;g_GCA-2748155;s_	tig00316375-10-10025590	41086	epsH	00854
256	Hirt_18-Q3-R61-65_BAT3C.449	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Chitinophagales;t_Saprospiraceae;g_;s_	tig00006428-10-4565030	274703	epsH	05226
257	Hirt_18-Q3-R61-65_BAT3C.578	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Chitinophagales;t_Saprospiraceae;g_;s_	tig00001500-10-9248040	481340	epsH	01271
258	Hirt_18-Q3-R61-65_BATAC.102	d_Bacteria;p_Bacteroidota;c_Bacteroidia;o_Flavobacteriales;f_PHOS-HE28;g_PHOS-HE28;s_	tig00006217-10-3582160	232954	epsH	00222
259	Hirt_18-Q3-R61-65_BATAC.172	d_Bacteria;p_Bacteroidota;c_Ignavibacteria;o_SJA-28;f_B-1AR;g_UBA2330;s_	tig00015214-10-1556130	48483	epsH	01417
260	Hirt_18-Q3-R61-65_BATAC.395	d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Burkholderiales;f_Rhodocyclaceae;g_;s_	tig00006138-10-3422470	61254	epsH	00446
261	Hirt_18-Q3-R61-65_BATAC.422	d_Bacteria;p_Proteobacteria;c_Gammaproteobacteria;o_Competibacterales;f_Competibacteraceae;g_Contendobacter;s_Contendobacter odensis	tig00017542-10-504860	9705	epsH	02906
262	Hirt_18-Q3-R61-65_BATAC.427	d_Bacteria;p_Chloroflexota;c_Anaerolineae;o_;f_;g_;s_	tig00011845-10-2706940	184986	epsH	02246