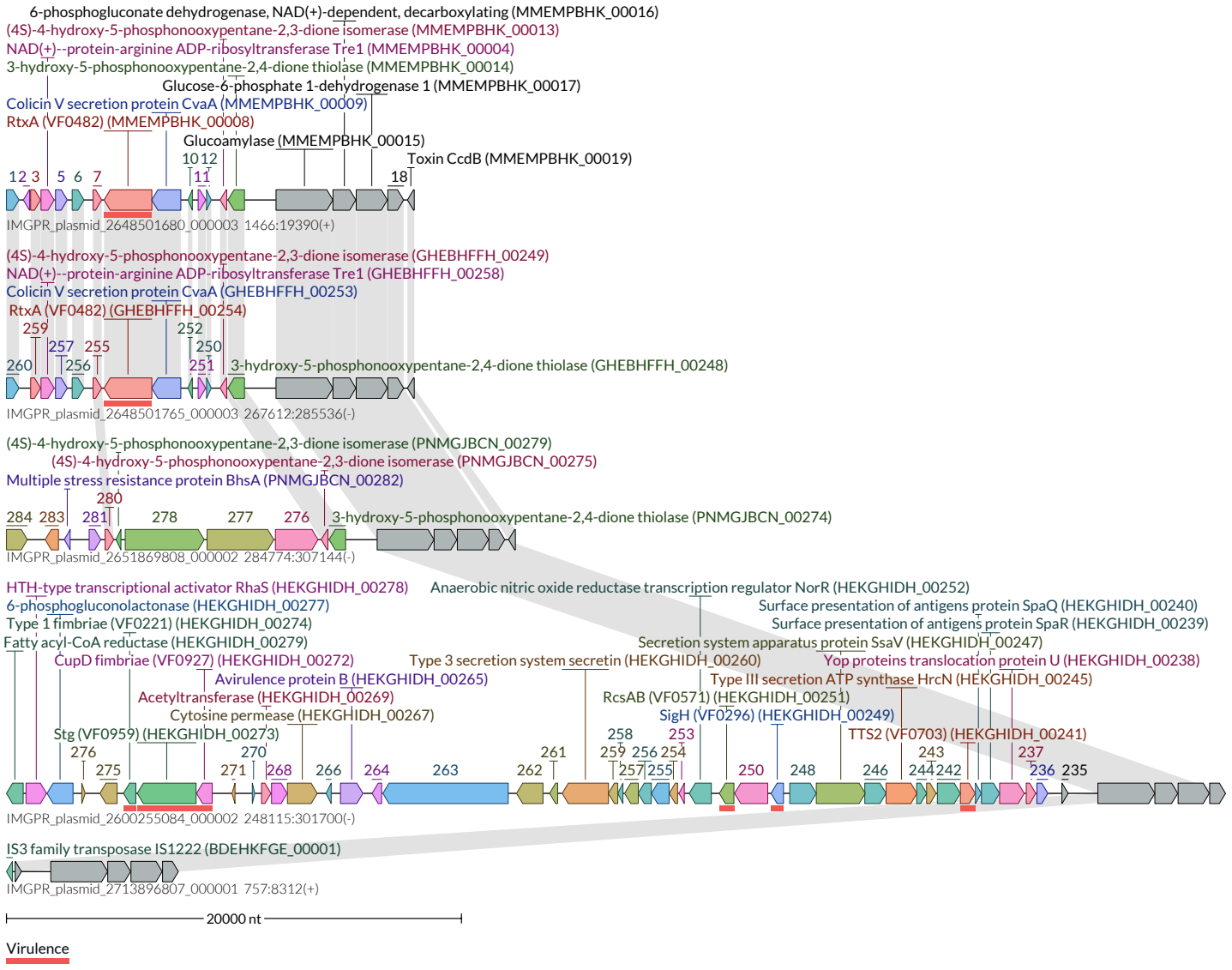
6-phosphogluconate dehydrogenase, NAD(+)-dependent, decarboxylating (MMEMPBHK_00016)
(4S)-4-hydroxy-5-phosphonooxypentane-2,3-dione isomerase (MMEMPBHK_00013)
NAD(+)--protein-arginine ADP-ribosyltransferase Tre1 (MMEMPBHK_00004)
3-hydroxy-5-phosphonooxypentane-2,4-dione thiolase (MMEMPBHK_00014)
Glucose-6-phosphate 1-dehydrogenase 1 (MMEMPBHK_00017)
Colicin V secretion protein CvaA (MMEMPBHK_00009)
RtxA (VF0482) (MMEMPBHK_00008)
Glucoamylase (MMEMPBHK_00015)
Toxin CcdB (MMEMPBHK_00019)
12 3 5 6 7 10 12 11 18
IMGPR_plasmid_2648501680_000003 1466:19390(+)
(4S)-4-hydroxy-5-phosphonooxypentane-2,3-dione isomerase (GHEBHFFH_00249)
NAD(+)--protein-arginine ADP-ribosyltransferase Tre1 (GHEBHFFH_00258)
Colicin V secretion protein CvaA (GHEBHFFH_00253)
RtxA (VF0482) (GHEBHFFH_00254)
259 257 255 252 250 260 256 251
3-hydroxy-5-phosphonooxypentane-2,4-dione thiolase (GHEBHFFH_00248)
IMGPR_plasmid_2648501765_000003 267612:285536(-)
(4S)-4-hydroxy-5-phosphonooxypentane-2,3-dione isomerase (PNMGJBCN_00279)
(4S)-4-hydroxy-5-phosphonooxypentane-2,3-dione isomerase (PNMGJBCN_00275)
Multiple stress resistance protein BhsA (PNMGJBCN_00282)
280 284 283 281 278 277 276
3-hydroxy-5-phosphonooxypentane-2,4-dione thiolase (PNMGJBCN_00274)
IMGPR_plasmid_2651869808_000002 284774:307144(-)
HTH-type transcriptional activator RhaS (HEKGHIDH_00278)
Anaerobic nitric oxide reductase transcription regulator NorR (HEKGHIDH_00252)
6-phosphogluconolactonase (HEKGHIDH_00277)
Surface presentation of antigens protein SpaQ (HEKGHIDH_00240)
Type 1 fimbriae (VF0221) (HEKGHIDH_00274)
Surface presentation of antigens protein SpaR (HEKGHIDH_00239)
Fatty acyl-CoA reductase (HEKGHIDH_00279)
Secretion system apparatus protein SsaV (HEKGHIDH_00247)
CupD fimbriae (VF0927) (HEKGHIDH_00272)
Type 3 secretion system secretin (HEKGHIDH_00260)
Yop proteins translocation protein U (HEKGHIDH_00238)
Avirulence protein B (HEKGHIDH_00265)
Type III secretion ATP synthase HrcN (HEKGHIDH_00245)
Acetyltransferase (HEKGHIDH_00269)
RcsAB (VF0571) (HEKGHIDH_00251)
Cytosine permease (HEKGHIDH_00267)
SigH (VF0296) (HEKGHIDH_00249)
Stg (VF0959) (HEKGHIDH_00273)
TTS2 (VF0703) (HEKGHIDH_00241)
276 275 271 270 268 266 264 263 262 261 258 259 256 254 253 257 255 250 248 246 244 243 242 237 236 235
IMGPR_plasmid_2600255084_000002 248115:301700(-)
IS3 family transposase IS1222 (BDEHKFGE_00001)
IMGPR_plasmid_2713896807_000001 757:8312(+)
20000 nt
Virulence