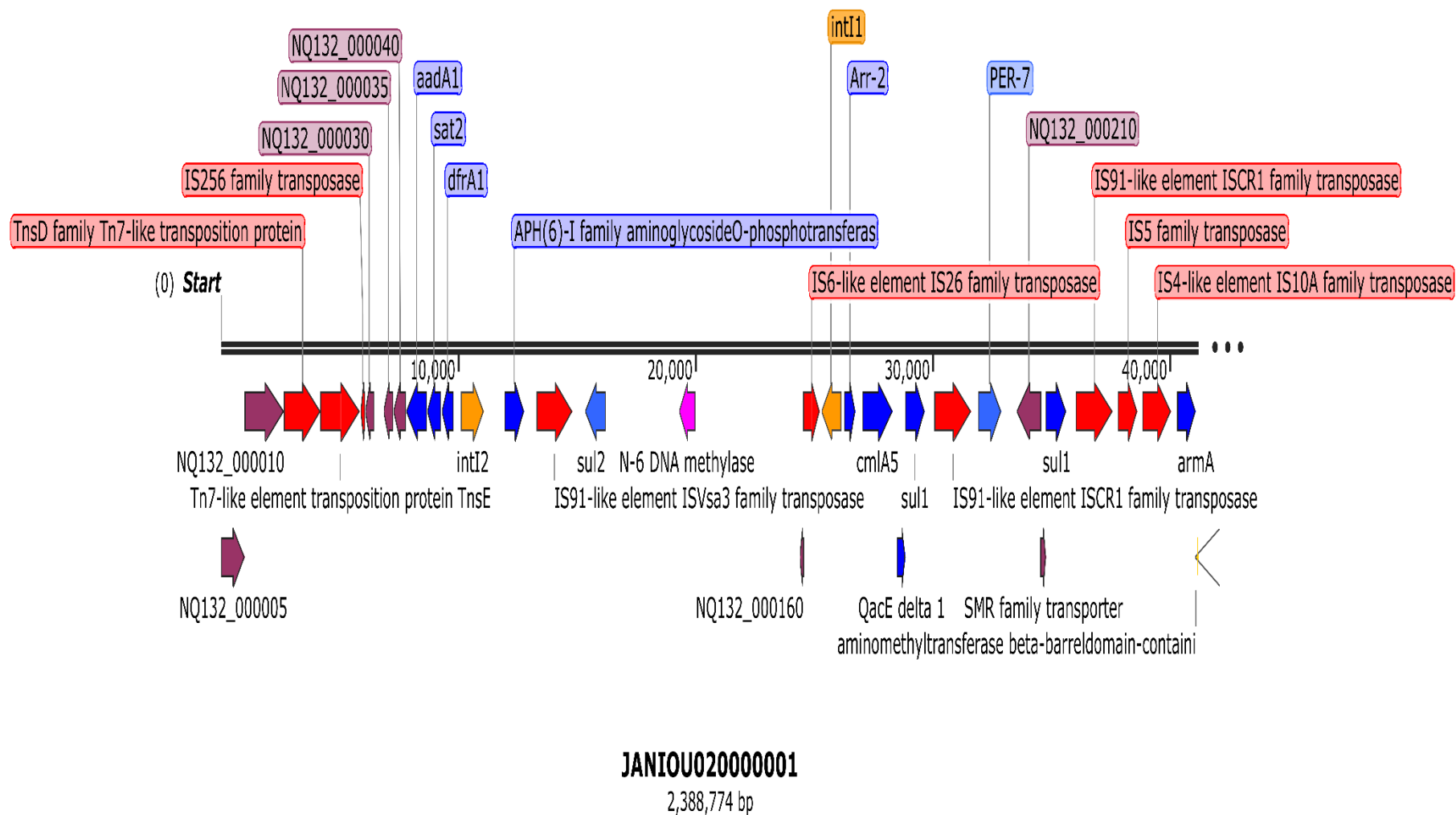
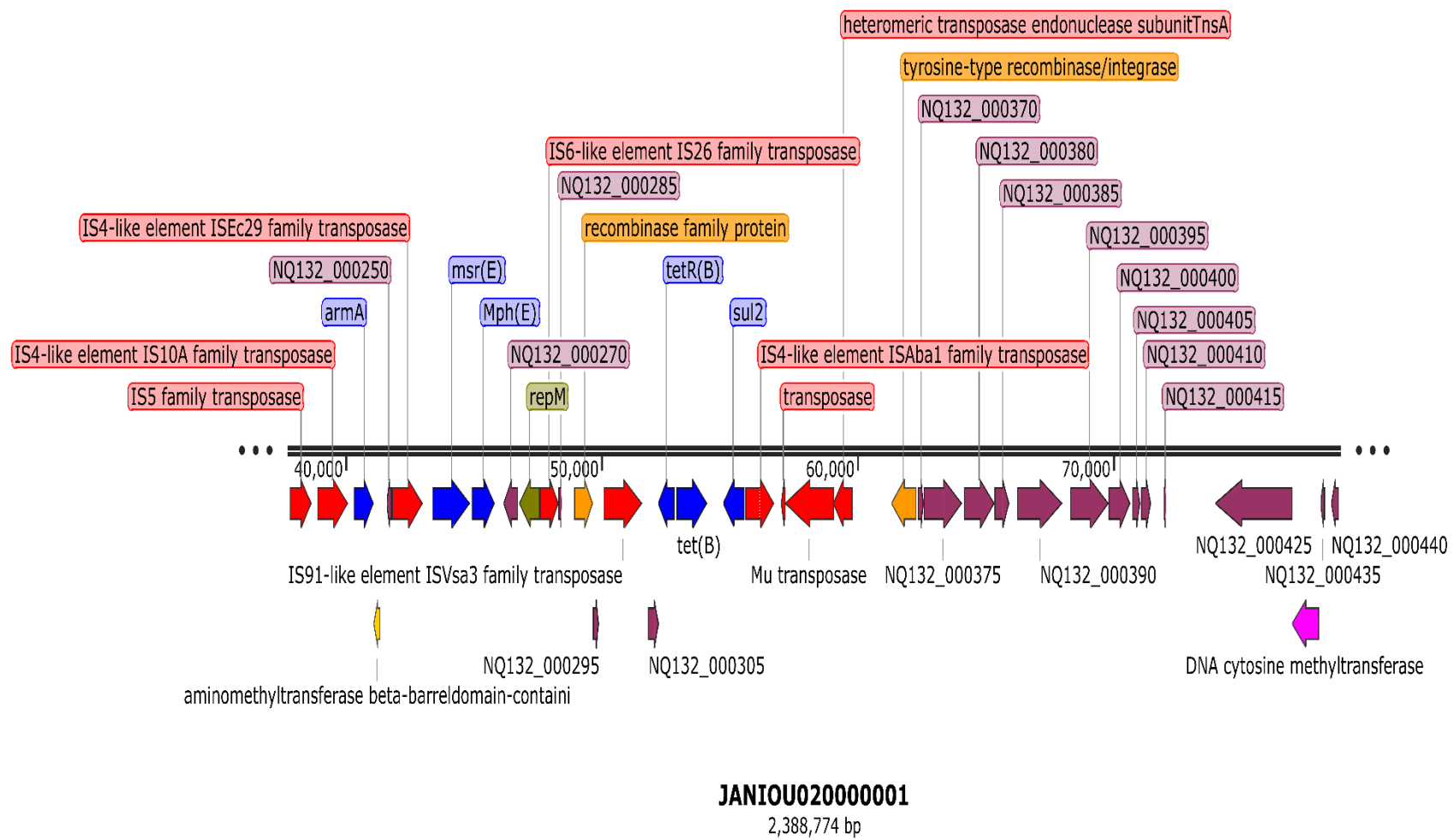


**Figure S1. Genetic environment of resistance genes found on a genomic island on a chromosome (contig 1: 0kb to 85kb).** All the resistance genes (shown in blue) were bracketed by mobile genetic elements (shown in red and orange) and clustered together on the island. The close alignment of this region with other plasmids and chromosomes show that this region was a plasmid that was integrated into the chromosome. Epigenomically, DNA methyltransferases and methylase were also found within the genomic island.

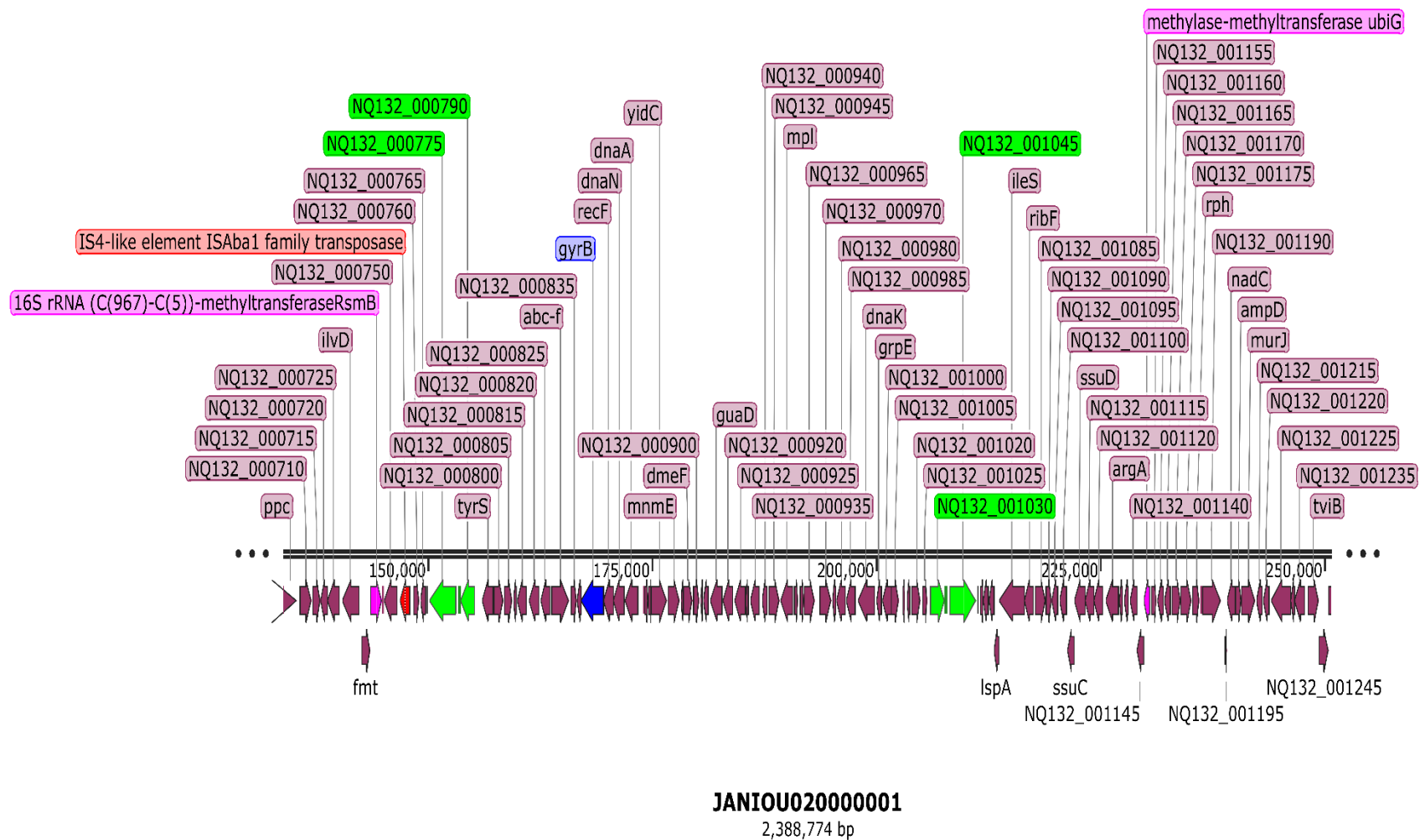


**Figure S2.** Genetic environment of resistance genes found on contig 1 (between 0kb to 40kb) shows mobile genetic elements bracketing the resistance genes. This image is an expansion of Figure S1 between the 0 - 40kb region above.



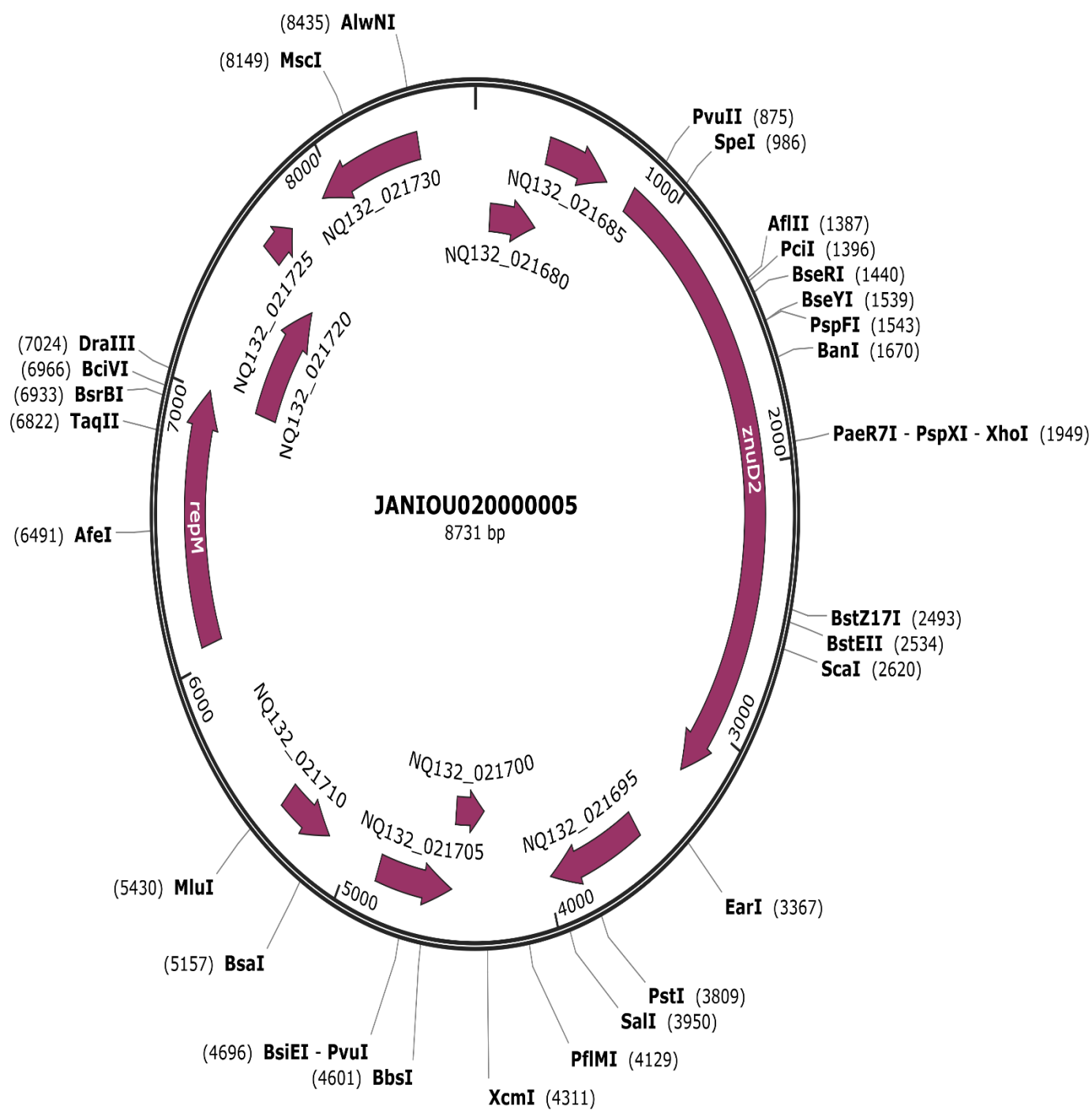
**Figure S3.** Genetic environment of resistance genes found on contig 1 (between 40kb to 80kb) shows mobile genetic elements bracketing the resistance genes. This image is an expansion of Figure S1 between the 40 - 80kb region above.



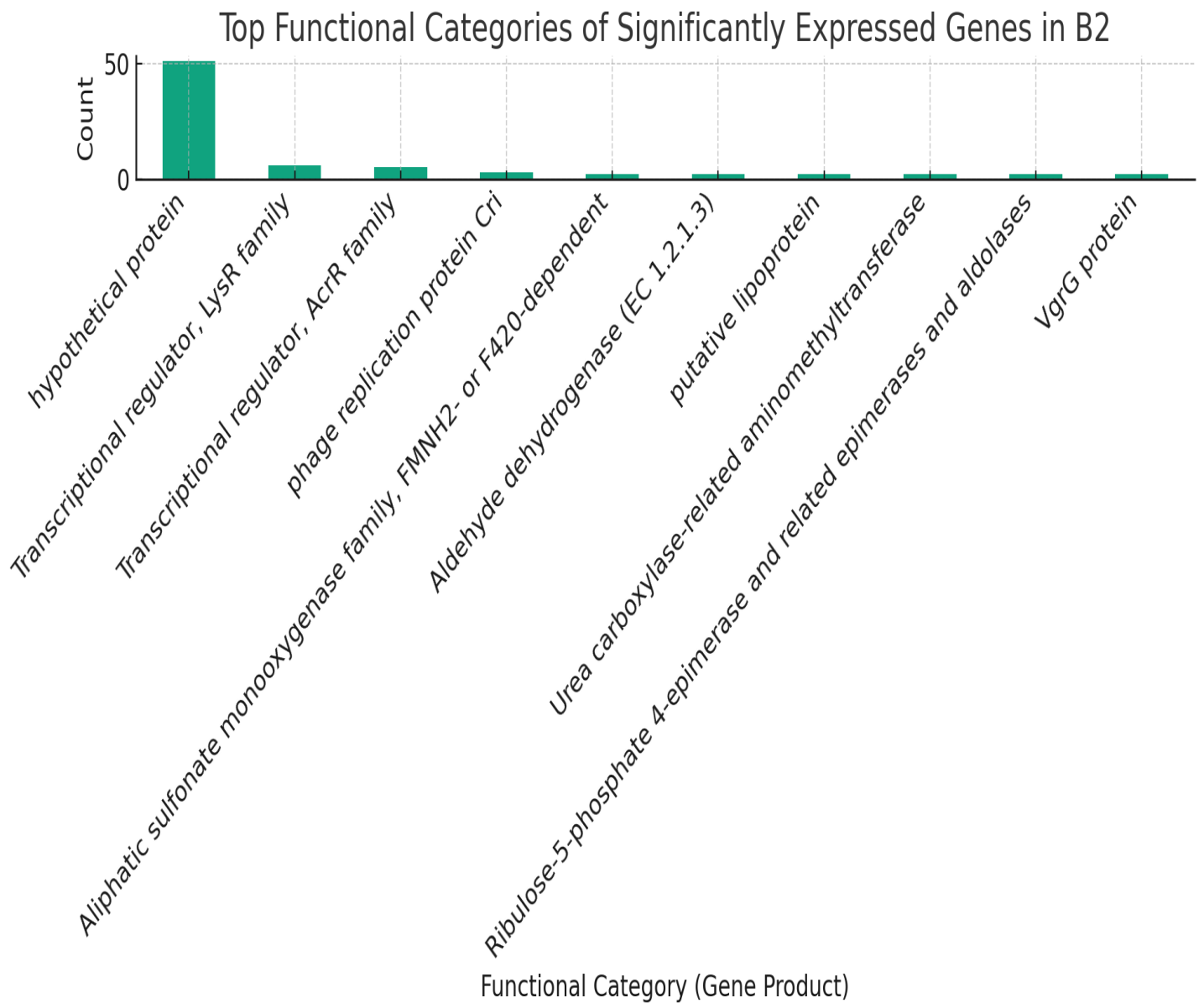


**Figure S5. Mobile genetic elements and methyltransferases on contig 1 between 120kb to 250kb region.** This region harbours methyltransferases, *gyrB*, and an ISAbal mobile genetic element.





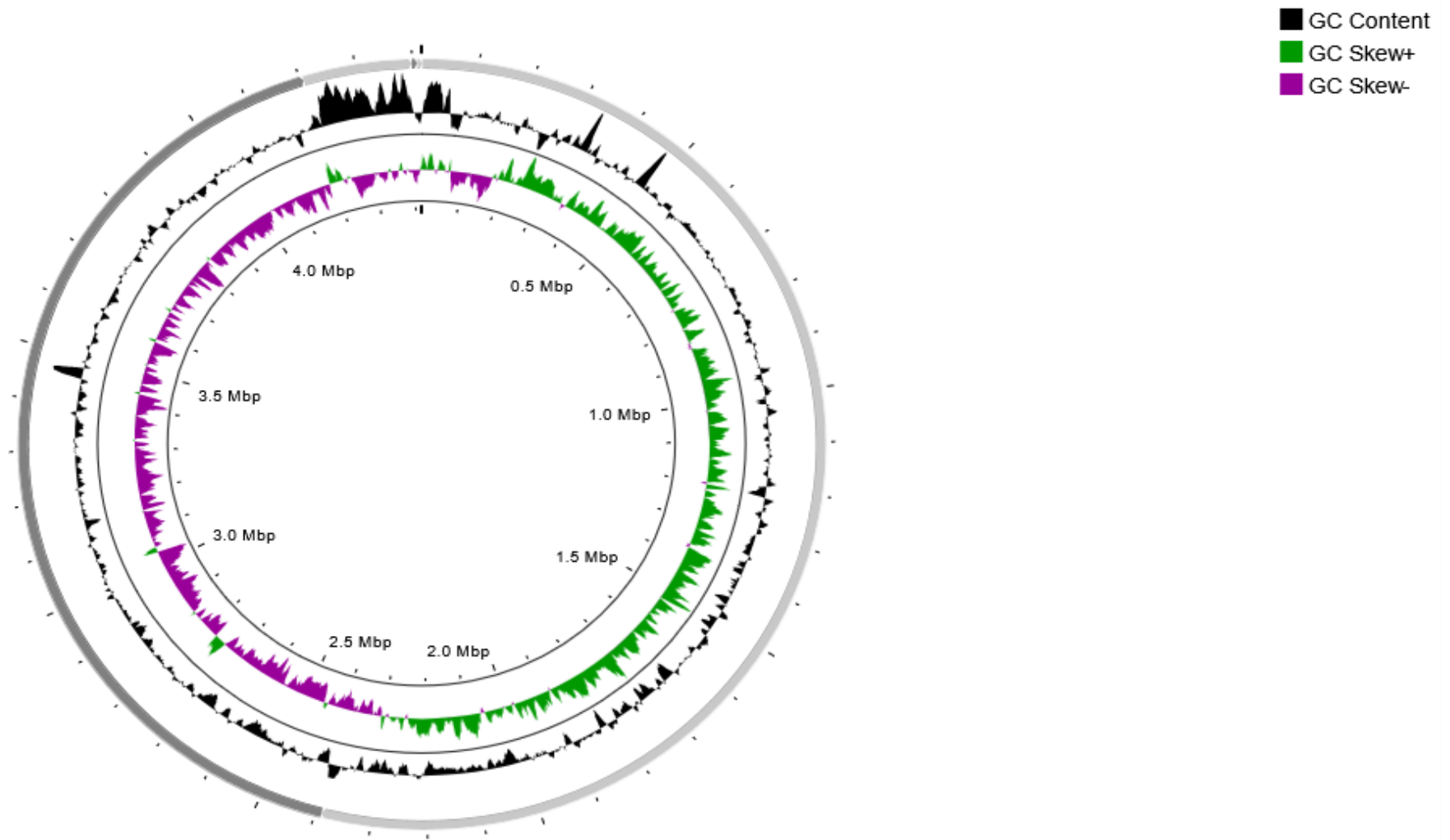
**Figure S7. Genetic map of pR-B2.MM\_C6.** A circularized map of pR-B2.MM\_C6. pR-B2.MM\_C6 has no resistance gene.



**Figure S8. Top functional categories of significantly and differentially expressed genes (DEGs) in isolate R-B2.** Most of the DEGs belonged to hypothetical proteins with no known function, transcriptional regulators, and mobile genetic elements.



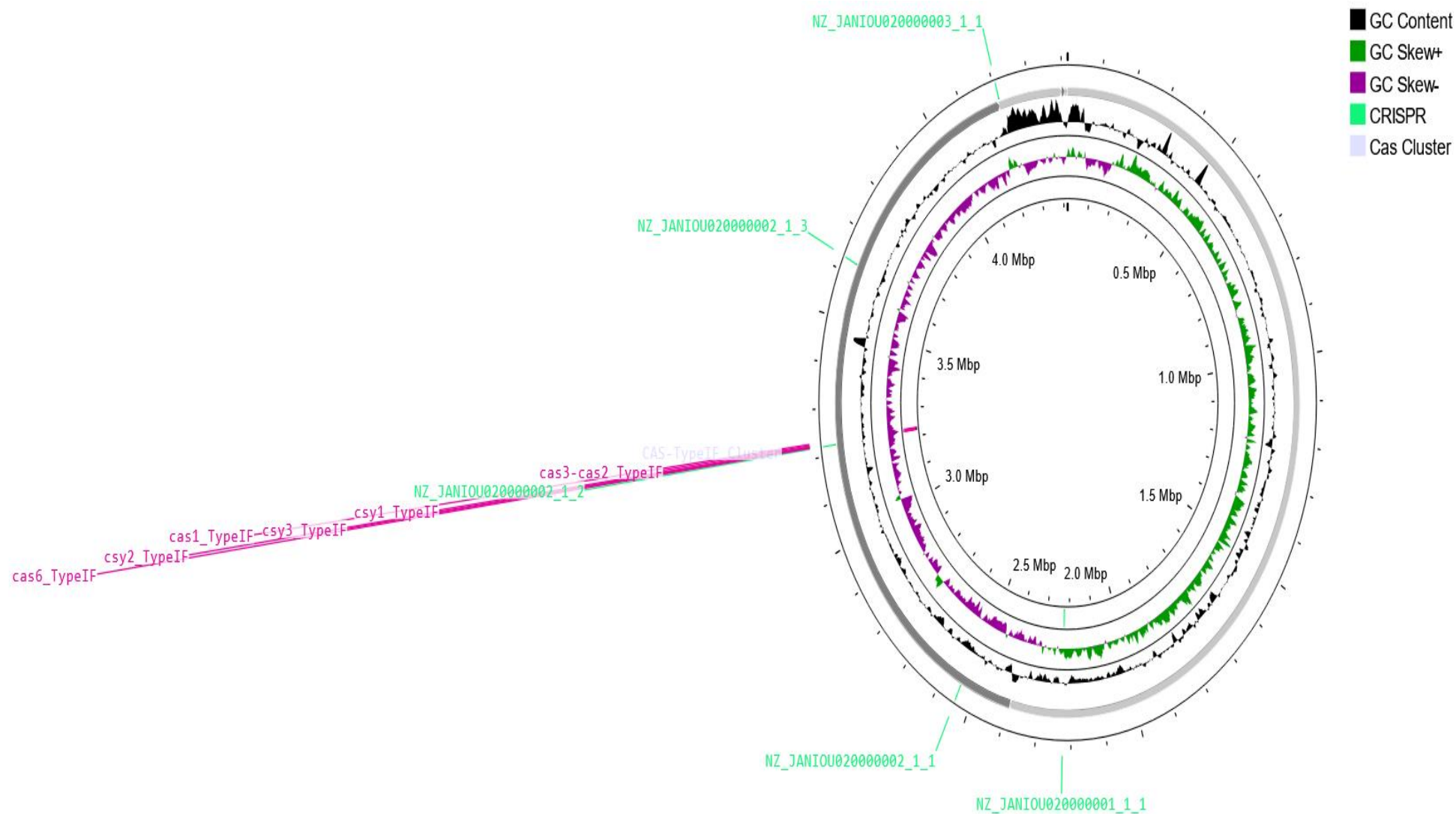




*Acinetobacter baumannii* strain R\_B2.MM, whole genome shotgun sequence

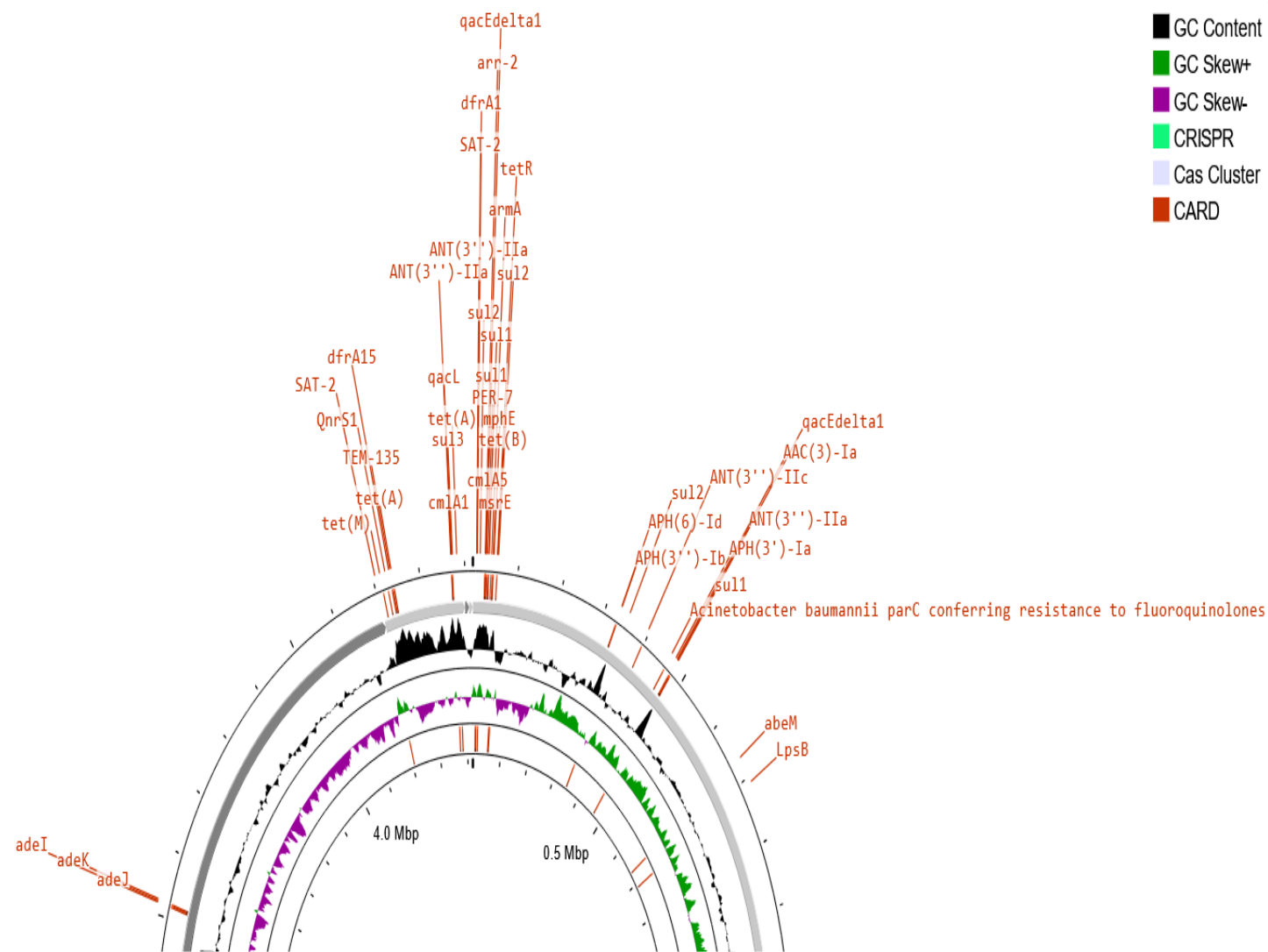
Figure S10. Genome map of R\_B2.MM strain with GC content annotation





## Acinetobacter baumannii strain R\_B2.MM, whole genome shotgun sequence

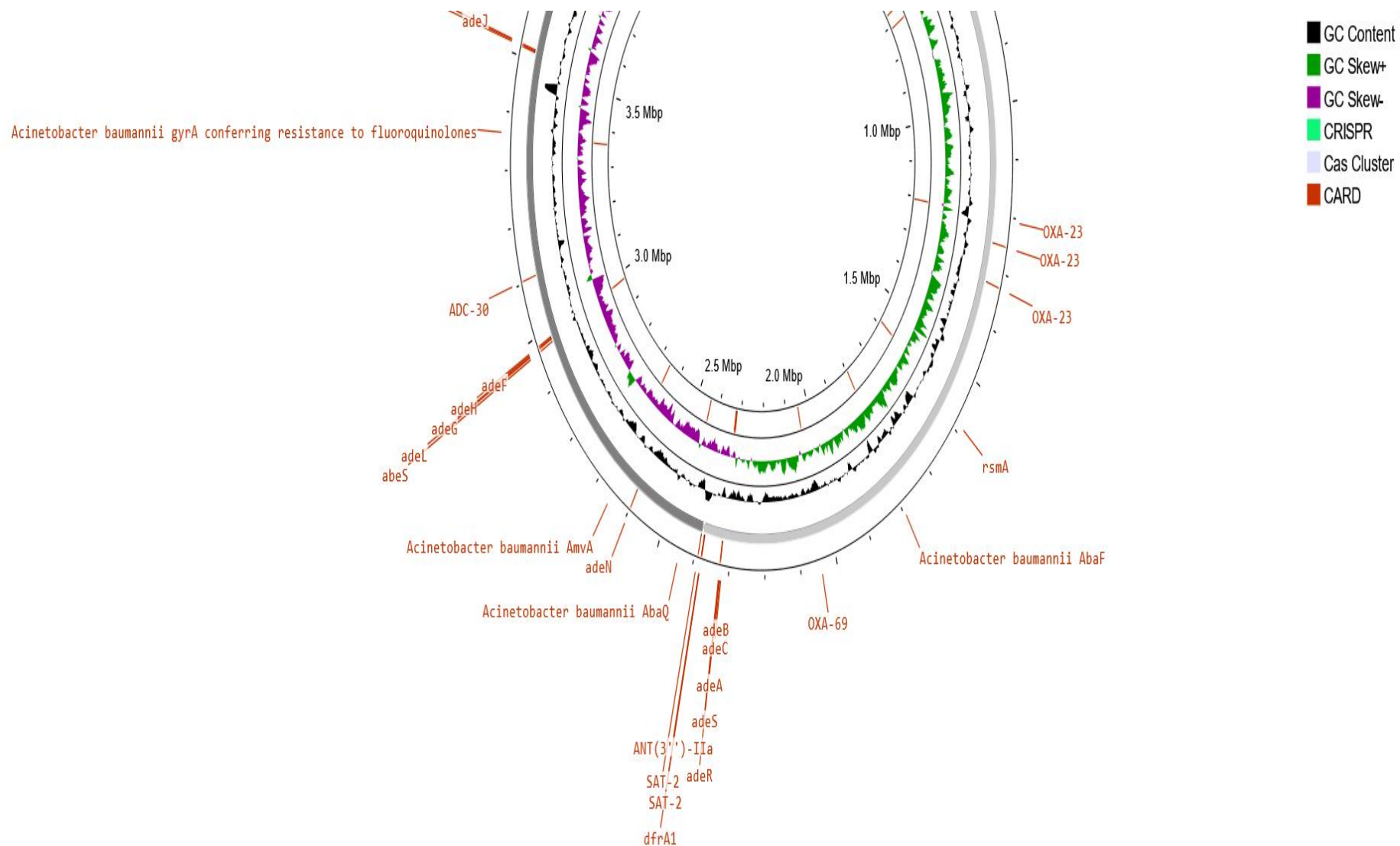
Figure S12. CRISPR systems and Cas proteins found in the genome of *A. baumannii* R\_B2.MM



Acinetobacter baumannii gyrA conferring resis Acinetobacter baumannii strain R\_B2.MM, whole genome shotgun sequence

**Figure S13a. CARD-annotated resistance genes found in the genome of *A. baumannii* R\_B2.MM strain.**

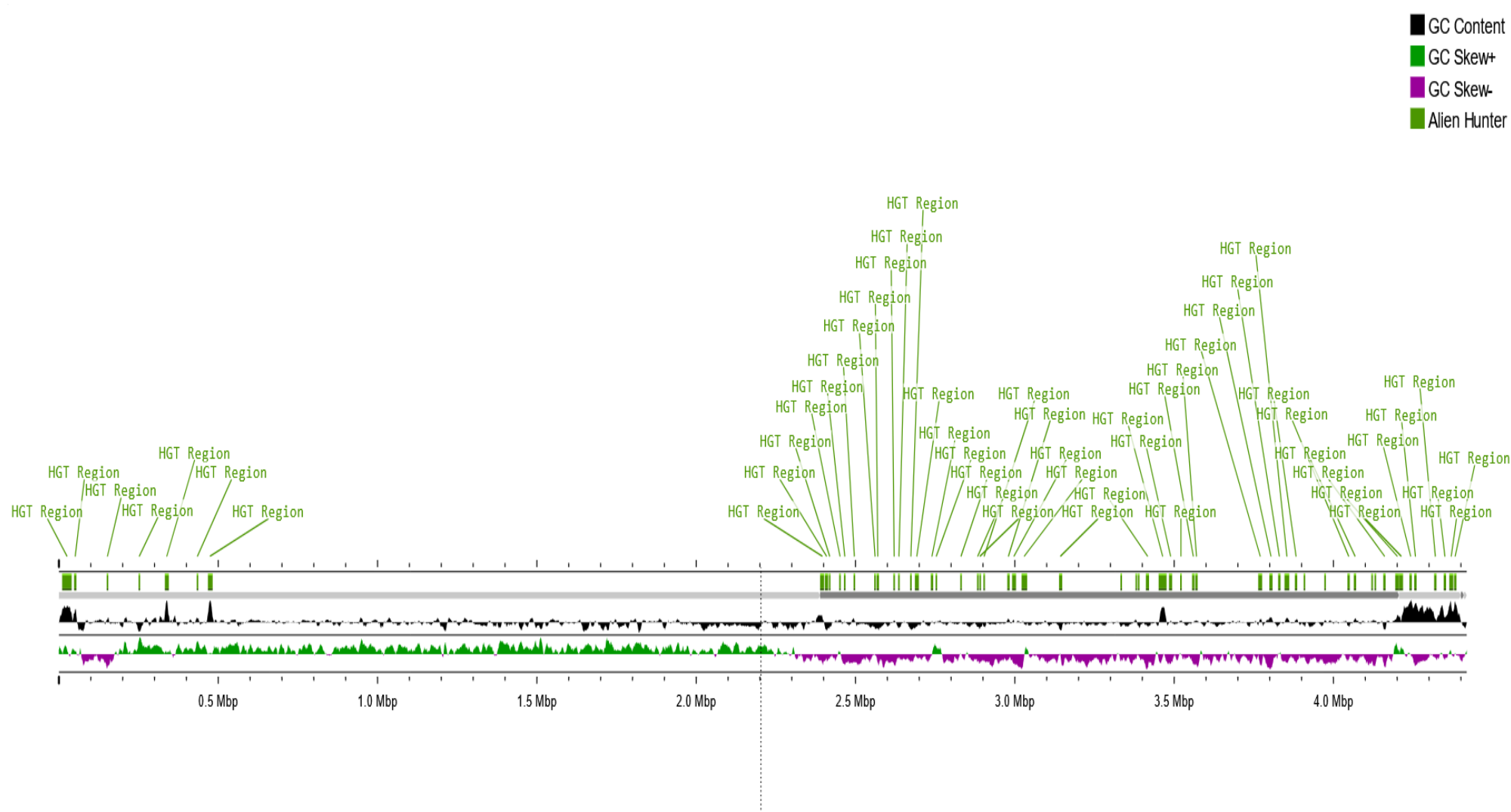




## Acinetobacter baumannii strain R\_B2.MM, whole genome shotgun sequence

Figure S13b. CARD-annotated resistance genes found in the genome of *A. baumannii* R\_B2.MM strain.

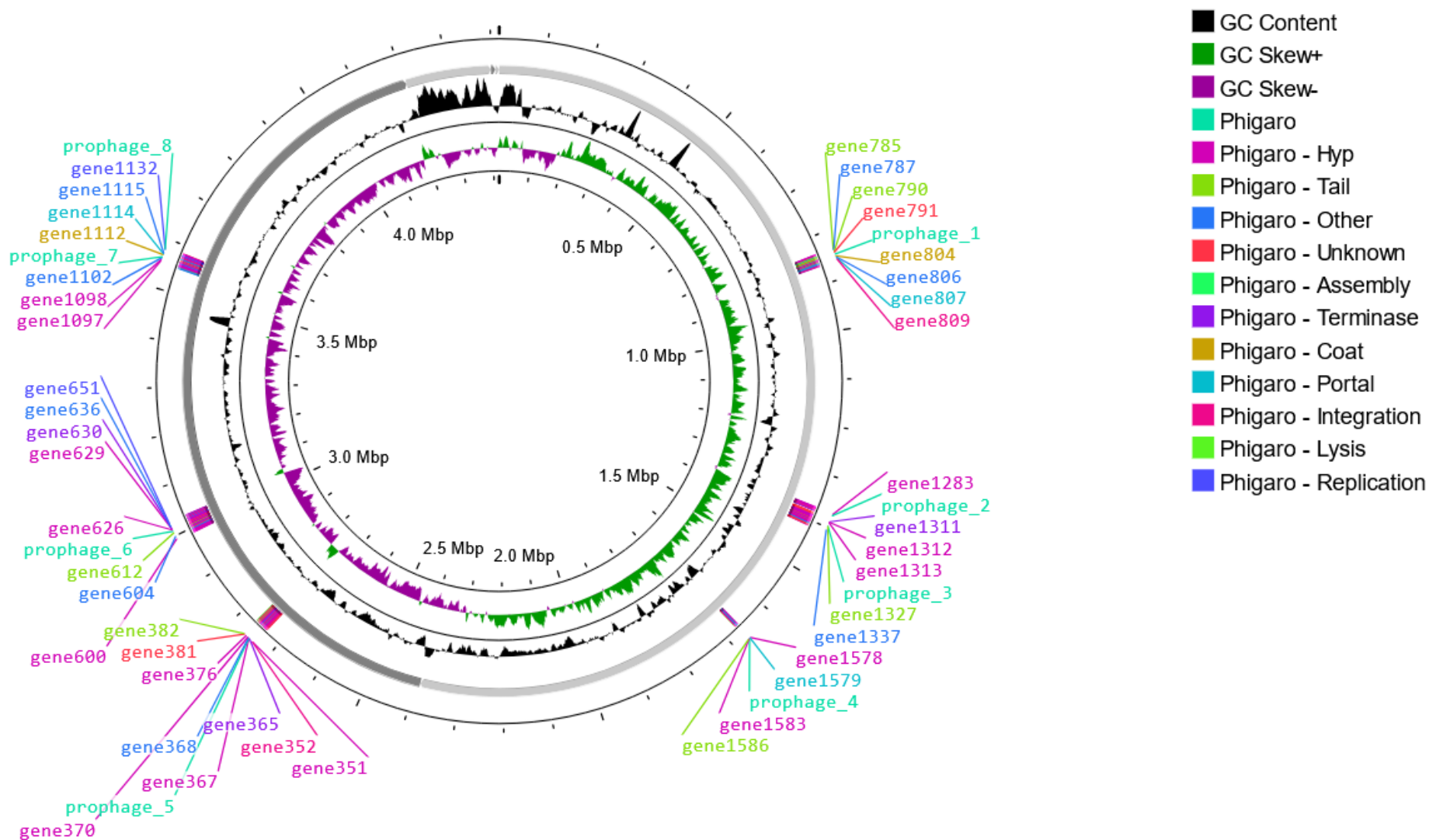




### Acinetobacter baumannii strain R\_B2.MM, whole genome shotgun sequence

**Figure S15.** Regions of the *A. baumannii* R\_B2.MM genome with active horizontal gene expression (HGT) events are annotated on the genome map





## Acinetobacter baumannii strain R\_B2.MM, whole genome shotgun sequence

Figure S16. Types and distribution of prophages found in the *A. baumannii* R\_B2.MM genome