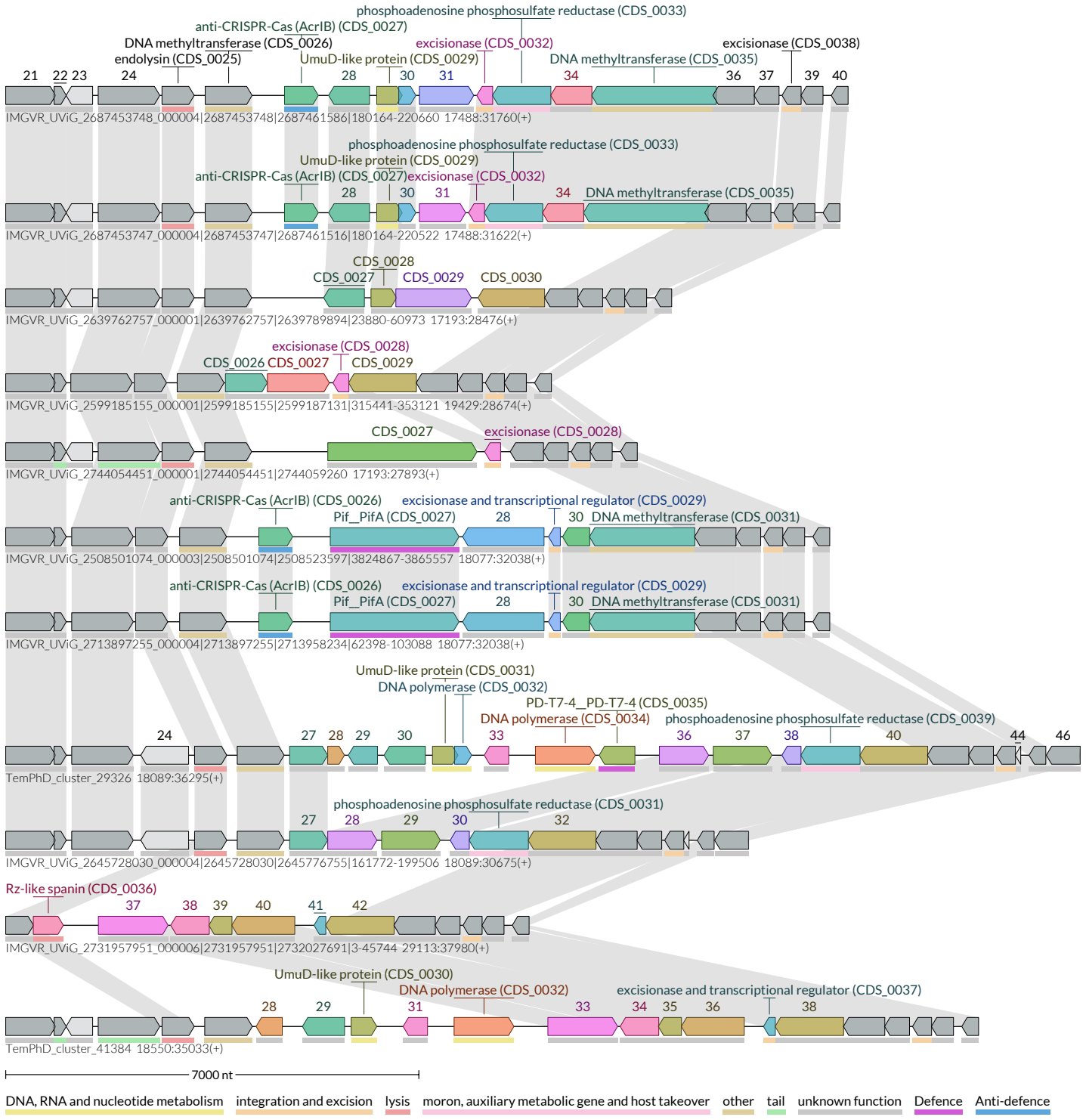
phosphoadenosine phosphosulfate reductase (CDS_0033)
anti-CRISPR-Cas (AcrIB) (CDS_0027)
DNA methyltransferase (CDS_0026)
excisionase (CDS_0032)
excisionase (CDS_0038)
endolysin (CDS_0025)
UmuD-like protein (CDS_0029)
DNA methyltransferase (CDS_0035)
21 22 23 24 28 30 31 34 36 37 39 40
IMGVR_UViG_2687453748_000004|2687453748|2687461586|180164-220660 17488:31760(+)
phosphoadenosine phosphosulfate reductase (CDS_0033)
UmuD-like protein (CDS_0029)
anti-CRISPR-Cas (AcrIB) (CDS_0027)
excisionase (CDS_0032)
28 30 31 34
DNA methyltransferase (CDS_0035)
IMGVR_UViG_2687453747_000004|2687453747|2687461516|180164-220522 17488:31622(+)
CDS_0028
CDS_0027
CDS_0029
CDS_0030
IMGVR_UViG_2639762757_000001|2639762757|2639789894|23880-60973 17193:28476(+)
excisionase (CDS_0028)
CDS_0026
CDS_0027
CDS_0029
IMGVR_UViG_2599185155_000001|2599185155|2599187131|315441-353121 19429:28674(+)
CDS_0027
excisionase (CDS_0028)
IMGVR_UViG_2744054451_000001|2744054451|2744059260 17193:27893(+)
anti-CRISPR-Cas (AcrIB) (CDS_0026)
excisionase and transcriptional regulator (CDS_0029)
Pif_PifA (CDS_0027)
28
30
DNA methyltransferase (CDS_0031)
IMGVR_UViG_2508501074_000003|2508501074|2508523597|3824867-3865557 18077:32038(+)
anti-CRISPR-Cas (AcrIB) (CDS_0026)
excisionase and transcriptional regulator (CDS_0029)
Pif_PifA (CDS_0027)
28
30
DNA methyltransferase (CDS_0031)
IMGVR_UViG_2713897255_000004|2713897255|2713958234|62398-103088 18077:32038(+)
UmuD-like protein (CDS_0031)
DNA polymerase (CDS_0032)
PD-T7-4_PD-T7-4 (CDS_0035)
DNA polymerase (CDS_0034)
phosphoadenosine phosphosulfate reductase (CDS_0039)
24 27 28 29 30 33 36 37 38 40 44 46
TemPhD_cluster_29326 18089:36295(+)
phosphoadenosine phosphosulfate reductase (CDS_0031)
27 28 29 30 32
IMGVR_UViG_2645728030_000004|2645728030|2645776755|161772-199506 18089:30675(+)
Rz-like spanin (CDS_0036)
37 38 39 40 41 42
IMGVR_UViG_2731957951_000006|2731957951|2732027691|3-45744 29113:37980(+)
UmuD-like protein (CDS_0030)
DNA polymerase (CDS_0032)
excisionase and transcriptional regulator (CDS_0037)
28 29 31 33 34 35 36 38
TemPhD_cluster_41384 18550:35033(+)
7000 nt
DNA, RNA and nucleotide metabolism
integration and excision
lysis
moron, auxiliary metabolic gene and host takeover
other
tail
unknown function
Defence
Anti-defence