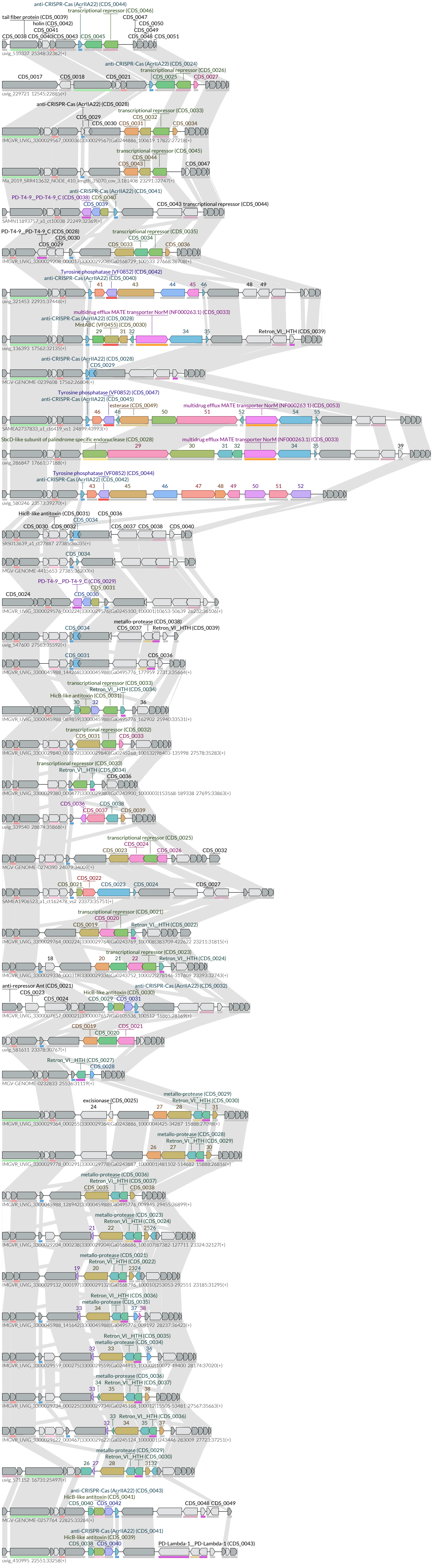
anti-CRISPR-Cas (AcrIIA22) (CDS_0044)
transcriptional repressor (CDS_0046)
tail fiber protein (CDS_0039)
holin (CDS_0042)
CDS_0041
CDS_0038 CDS_0040 CDS_0043 CDS_0045
CDS_0047
CDS_0050
CDS_0049
CDS_0048 CDS_0051
uvig_510337 25348:32382(+)
anti-CRISPR-Cas (AcrIIA22) (CDS_0024)
transcriptional repressor (CDS_0026)
CDS_0017 CDS_0018 CDS_0021 CDS_0025 CDS_0027
uvig_229721 12545:22885(+)
anti-CRISPR-Cas (AcrIIA22) (CDS_0028)
transcriptional repressor (CDS_0033)
CDS_0029
CDS_0030 CDS_0031 CDS_0032 CDS_0034
IMGVR_UViG_3300029567_000036|3300029567|Ga0244886_100619 17822:27218(+)
transcriptional repressor (CDS_0045)
CDS_0044
CDS_0043 CDS_0047
Ma_2019_SRR413632_NODE_410_length_35070_cov_3.181408 23291:32747(+)
anti-CRISPR-Cas (AcrIIA22) (CDS_0041)
PD-T4-9__PD-T4-9_C (CDS_0038) CDS_0040
CDS_0039
CDS_0043 transcriptional repressor (CDS_0044)
SAMN11893757_a1_ct10038 22249:32369(+)
PD-T4-9__PD-T4-9_C (CDS_0028)
CDS_0030
CDS_0029
transcriptional repressor (CDS_0035)
CDS_0034
CDS_0033 CDS_0036
IMGVR_UViG_3300029208_000017|3300029208|Ga0168729_100533 27668:36708(+)
Tyrosine phosphatase (VF0852) (CDS_0042)
anti-CRISPR-Cas (AcrIIA22) (CDS_0040)
41 43 44 45 46 48 49
uvig_321453 22931:37448(+)
multidrug efflux MATE transporter NorM (NF000263.1) (CDS_0033)
anti-CRISPR-Cas (AcrIIA22) (CDS_0028)
MntABC (VF0455) (CDS_0030)
29 31 32 34 35 Retron_VI__HTH (CDS_0039)
uvig_136393 17562:32135(+)
anti-CRISPR-Cas (AcrIIA22) (CDS_0028)
CDS_0029
MGV-GENOME-0239608 17562:26804(+)
Tyrosine phosphatase (VF0852) (CDS_0047)
anti-CRISPR-Cas (AcrIIA22) (CDS_0045)
esterase (CDS_0049)
multidrug efflux MATE transporter NorM (NF000263.1) (CDS_0053)
46 48 50 51 52 54 55
SAMEA2737833_a1_ct6419_vs1 24899:43993(+)
SbcD-like subunit of palindrome specific endonuclease (CDS_0028)
multidrug efflux MATE transporter NorM (NF000263.1) (CDS_0033)
29 30 31 32 34 35 39
uvig_286847 17661:37188(+)
Tyrosine phosphatase (VF0852) (CDS_0044)
anti-CRISPR-Cas (AcrIIA22) (CDS_0042)
43 45 46 47 48 49 50 51 52
uvig_580246 23573:39270(+)
HicB-like antitoxin (CDS_0031) CDS_0036
CDS_0034
CDS_0030 CDS_0032 CDS_0037 CDS_0038 CDS_0040
SRS013639_a1_ct27887 27385:36035(+)
CDS_0034
MGV-GENOME-4415653 27385:36200(+)
PD-T4-9__PD-T4-9_C (CDS_0029)
CDS_0031
CDS_0024 CDS_0030
IMGVR_UViG_3300029576_000224|3300029576|Ga0245100_100001|10653-50639 26232:36106(+)
metallo-protease (CDS_0038)
CDS_0034 CDS_0037 Retron_VI__HTH (CDS_0039)
uvig_547600 27563:35592(+)
CDS_0031 CDS_0036
IMGVR_UViG_3300045988_144268|3300045988|Ga0495776_177959 27313:35664(+)
transcriptional repressor (CDS_0033)
Retron_VI__HTH (CDS_0034)
HicB-like antitoxin (CDS_0031)
30 32 36
IMGVR_UViG_3300045988_089859|3300045988|Ga0495776_162902 25940:33531(+)
transcriptional repressor (CDS_0032)
CDS_0031 CDS_0033
IMGVR_UViG_3300029840_000292|3300029840|Ga0245268_100132|98403-135998 27578:35283(+)
transcriptional repressor (CDS_0033)
Retron_VI__HTH (CDS_0034)
CDS_0036
IMGVR_UViG_3300029380_000477|3300029380|Ga0243900_1000003|153168-189338 27695:33863(+)
CDS_0036 CDS_0038
CDS_0037 CDS_0039
uvig_339540 28874:35868(+)
transcriptional repressor (CDS_0025)
CDS_0024
CDS_0023 CDS_0026 CDS_0032
MGV-GENOME-0274390 24079:34009(+)
CDS_0022
CDS_0021 CDS_0023 CDS_0024 CDS_0027
SAMEA1906523_a1_ct162478_vs2 23373:35751(+)
transcriptional repressor (CDS_0021)
CDS_0020
CDS_0019 Retron_VI__HTH (CDS_0022)
IMGVR_UViG_3300029764_000224|3300029764|Ga0243769_100008|383709-422622 23211:31815(+)
transcriptional repressor (CDS_0023)
18 20 21 22 Retron_VI__HTH (CDS_0024)
IMGVR_UViG_3300029336_000318|3300029336|Ga0243752_100022|278146-317609 23393:32743(+)
anti-repressor Ant (CDS_0021)
anti-CRISPR-Cas (AcrIIA22) (CDS_0032)
CDS_0023
HicB-like antitoxin (CDS_0030)
CDS_0024 CDS_0029 CDS_0031
IMGVR_UViG_3300007657_000021|3300007657|Ga0105536_100512 16885:28169(+)
CDS_0019 CDS_0021
CDS_0020
uvig_581611 23378:30767(+)
Retron_VI__HTH (CDS_0027)
CDS_0028
MGV-GENOME-0232833 25536:31119(+)
metallo-protease (CDS_0029)
excisionase (CDS_0025)
Retron_VI__HTH (CDS_0030)
24 27 28 31
IMGVR_UViG_3300029364_000255|3300029364|Ga0243886_1000004|425-34287 15888:27098(+)
metallo-protease (CDS_0028)
Retron_VI__HTH (CDS_0029)
26 27 30
IMGVR_UViG_3300029778_000291|3300029778|Ga0243887_1000001|481102-514682 15888:26816(+)
metallo-protease (CDS_0036)
Retron_VI__HTH (CDS_0037)
CDS_0035 CDS_0038
IMGVR_UViG_3300045988_128942|3300045988|Ga0495776_009945 29455:36899(+)
metallo-protease (CDS_0023)
Retron_VI__HTH (CDS_0024)
21 22 25 26
IMGVR_UViG_3300029204_000238|3300029204|Ga0168686_100107|87382-127711 23324:32127(+)
metallo-protease (CDS_0021)
Retron_VI__HTH (CDS_0022)
19 20 23 24
IMGVR_UViG_3300029132_000197|3300029132|Ga0168796_100010|253053-292551 23185:31295(+)
Retron_VI__HTH (CDS_0036)
metallo-protease (CDS_0035)
33 34 37 38
IMGVR_UViG_3300045988_141642|3300045988|Ga0495776_009192 28237:36423(+)
Retron_VI__HTH (CDS_0035)
metallo-protease (CDS_0034)
32 33 36
IMGVR_UViG_3300029559_000275|3300029559|Ga0244915_100002|10072-49400 28174:37020(+)
metallo-protease (CDS_0036)
34 Retron_VI__HTH (CDS_0037)
33 35 38
IMGVR_UViG_3300029734_000225|3300029734|Ga0245168_100012|15505-53481 27567:35663(+)
33 Retron_VI__HTH (CDS_0036)
32 34 35 37
IMGVR_UViG_3300029622_000467|3300029622|Ga0245124_1000001|243446-283009 27723:37251(+)
metallo-protease (CDS_0029)
Retron_VI__HTH (CDS_0030)
26 27 28 31 32
uvig_571152 16731:25497(+)
anti-CRISPR-Cas (AcrIIA22) (CDS_0043)
HicB-like antitoxin (CDS_0041)
CDS_0040 CDS_0042
CDS_0048 CDS_0049
MGV-GENOME-0257764 22825:33284(+)
anti-CRISPR-Cas (AcrIIA22) (CDS_0041)
HicB-like antitoxin (CDS_0039)
CDS_0038 CDS_0040
PD-Lambda-1__PD-Lambda-1 (CDS_0043)
uvig_410995 22551:33258(+)
7000 nt
DNA, RNA and nucleotide metabolism
integration and excision
lysis
moron, auxiliary metabolic gene and host takeover
other
tail
transcription regulation
unknown function
Defence
Virulence
Anti-defence
AMR