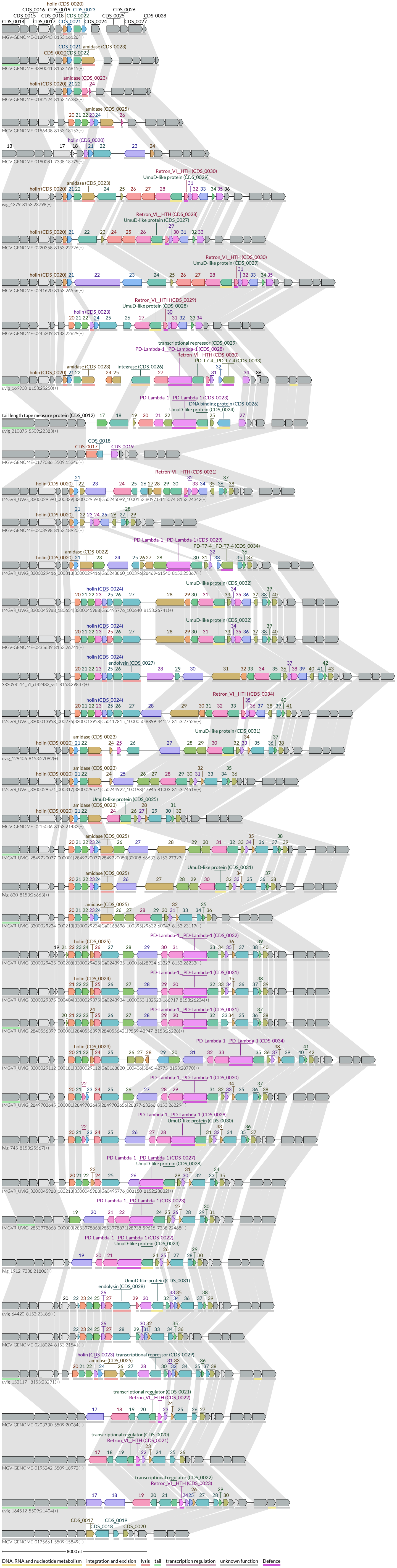
holin (CDS_0020)
CDS_0016 CDS_0019 CDS_0023 CDS_0026
CDS_0015 CDS_0018 CDS_0022 CDS_0025 CDS_0028
CDS_0014 CDS_0017 CDS_0021 CDS_0024 CDS_0027
MGV-GENOME-0180943 8153:16126(+)
CDS_0021 amidase (CDS_0023)
CDS_0020 CDS_0022
MGV-GENOME-4390041 8153:16815(+)
amidase (CDS_0023)
holin (CDS_0020) 21 22 24
MGV-GENOME-0182524 8153:16383(+)
amidase (CDS_0025)
20 21 22 23 24 26
MGV-GENOME-0196438 8153:18153(+)
holin (CDS_0020)
13 17 18 21 22 23 24
MGV-GENOME-0190081 7338:18779(+)
Retron_VI__HTH (CDS_0030)
UmuD-like protein (CDS_0029)
amidase (CDS_0023)
holin (CDS_0020) 21 22 24 25 26 27 28 31 32 33 34 35 36
ivig_4279 8153:23798(+)
Retron_VI__HTH (CDS_0028)
UmuD-like protein (CDS_0027)
29
holin (CDS_0020) 21 22 23 24 25 26 30 31 32 33
MGV-GENOME-0220358 8153:22726(+)
Retron_VI__HTH (CDS_0030)
UmuD-like protein (CDS_0029)
31
holin (CDS_0020) 21 22 23 24 25 26 27 28 32 33 34 35
MGV-GENOME-0241620 8153:26556(+)
Retron_VI__HTH (CDS_0029)
UmuD-like protein (CDS_0028)
30
holin (CDS_0023)
20 21 22 24 25 26 27 31 32 33 34
MGV-GENOME-0245309 8133:22629(+)
transcriptional repressor (CDS_0029)
PD-Lambda-1__PD-Lambda-1 (CDS_0028)
Retron_VI__HTH (CDS_0030)
PD-T7-4__PD-T7-4 (CDS_0033)
32
amidase (CDS_0023) integrase (CDS_0026)
holin (CDS_0020) 21 22 24 25 27 31 34 36
uvig_169900 8153:25250(+)
PD-Lambda-1__PD-Lambda-1 (CDS_0023)
DNA binding protein (CDS_0026)
UmuD-like protein (CDS_0024)
tail length tape measure protein (CDS_0012) 17 18 19 20 21 22 25 27
uvig_210875 5509:22383(+)
CDS_0018
CDS_0017 CDS_0019
MGV-GENOME-0177086 5509:15346(+)
Retron_VI__HTH (CDS_0031)
32 37
21
holin (CDS_0020) 22 23 24 25 26 27 28 29 30 33 34 35 36 38
IMGVR_UViG_3300029590_000329|3300029590|Ga0245099_1000153|80971-115074 8153:24342(+)
21 28
holin (CDS_0020) 22 23 24 25 26 27 29
MGV-GENOME-0203998 8153:18920(+)
PD-Lambda-1__PD-Lambda-1 (CDS_0029)
PD-T7-4__PD-T7-4 (CDS_0034)
32 36
amidase (CDS_0022)
holin (CDS_0020) 21 23 24 25 26 27 28 30 31 33 35 37
IMGVR_UViG_3300029416_000318|3300029416|Ga0243860_100396|28469-61540 8153:25367(+)
UmuD-like protein (CDS_0032)
34 39
holin (CDS_0024)
20 21 22 23 25 26 27 28 29 30 31 33 35 36 37 38 40
IMGVR_UViG_3300045988_180654|3300045988|Ga0495776_100640 8153:26741(+)
UmuD-like protein (CDS_0032)
34 39
holin (CDS_0024)
20 21 22 23 25 26 27 28 29 30 31 33 35 36 37 38 40
MGV-GENOME-0235639 8153:26741(+)
holin (CDS_0024)
endolysin (CDS_0027)
37 42
20 21 22 23 25 26 28 29 30 31 32 33 34 35 36 38 39 40 41 43
SRS098514_a1_ct42483_vs1 8153:29837(+)
Retron_VI__HTH (CDS_0034)
35 40
holin (CDS_0024)
20 21 22 23 25 26 27 28 29 30 31 32 33 36 37 38 39 41
IMGVR_UViG_3300013958_000276|3300013958|Ga0117815_1000050|8899-44127 8153:27526(+)
UmuD-like protein (CDS_0031)
34 37
amidase (CDS_0023)
holin (CDS_0020) 21 22 24 25 26 27 28 29 30 32 33 35 36 38
uvig_129406 8153:27092(+)
amidase (CDS_0023)
32 35
holin (CDS_0020) 21 22 24 25 26 27 28 29 30 31 33 34 36
IMGVR_UViG_3300029571_000317|3300029571|Ga0244922_100198|47945-81003 8153:24516(+)
UmuD-like protein (CDS_0025)
28 31
amidase (CDS_0023)
holin (CDS_0020) 21 22 24 26 27 29 30 32
MGV-GENOME-0215036 8153:21432(+)
amidase (CDS_0025)
35 38
20 21 22 23 24 26 27 28 29 30 31 32 33 34 36 37 39
IMGVR_UViG_2849720077_000001|2849720077|2849720080|32008-66633 8153:27327(+)
UmuD-like protein (CDS_0031)
34 37
amidase (CDS_0025)
20 21 22 23 24 26 27 28 29 30 32 33 35 36 38
ivig_830 8153:26663(+)
amidase (CDS_0025)
32 35
20 21 22 23 24 26 27 28 29 30 31 33 34 36
IMGVR_UViG_3300029234_000213|3300029234|Ga0168698_100395|29632-60047 8153:23117(+)
PD-Lambda-1__PD-Lambda-1 (CDS_0032)
holin (CDS_0025)
36 39
19 21 22 23 24 26 27 28 29 30 31 33 34 35 37 38 40
IMGVR_UViG_3300029425_000208|3300029425|Ga0243935_100016|28934-63327 8153:26233(+)
PD-Lambda-1__PD-Lambda-1 (CDS_0031)
35 38
holin (CDS_0024)
21 22 23 25 26 27 28 29 30 32 33 34 36 37 39
IMGVR_UViG_3300029375_000404|3300029375|Ga0243934_1000053|132523-166917 8153:26234(+)
24 37
PD-Lambda-1__PD-Lambda-1 (CDS_0031)
20 21 22 23 25 26 27 28 29 30 32 33 34 35 36 38
IMGVR_UViG_2840556399_000001|2840556399|2840556421|9559-43947 8153:26228(+)
PD-Lambda-1__PD-Lambda-1 (CDS_0034)
38 41
holin (CDS_0023)
20 21 22 24 25 26 27 28 29 30 31 32 33 35 36 37 39 40 42
IMGVR_UViG_3300029112_000181|3300029112|Ga0168820_100406|5845-42775 8153:28770(+)
PD-Lambda-1__PD-Lambda-1 (CDS_0030)
22 34 37
20 21 23 24 25 26 27 28 29 31 32 33 35 36 38
IMGVR_UViG_2849702645_000001|2849702645|2849702656|28877-63266 8153:26229(+)
PD-Lambda-1__PD-Lambda-1 (CDS_0029)
UmuD-like protein (CDS_0030)
22 33 36
20 21 23 24 25 26 27 28 31 32 34 35 37
ivig_745 8153:25567(+)
PD-Lambda-1__PD-Lambda-1 (CDS_0027)
UmuD-like protein (CDS_0028)
23 31 34
20 21 22 24 25 26 29 30 32 33 35
IMGVR_UViG_3300045988_183218|3300045988|Ga0495776_008150 8152:23832(+)
PD-Lambda-1__PD-Lambda-1 (CDS_0023)
27 30
19 20 21 22 24 25 26 28 29 31
IMGVR_UViG_2853978868_000003|2853978868|2853978871|28938-59615 7338:22468(+)
PD-Lambda-1__PD-Lambda-1 (CDS_0022)
UmuD-like protein (CDS_0023)
26 29
19 20 21 24 25 27 28 30
ivig_1912 7338:21806(+)
UmuD-like protein (CDS_0031)
endolysin (CDS_0028)
26 33 35 38
20 22 23 24 25 27 29 30 32 34 36 37 39
uvig_64420 8153:23186(+)
26 30 32 35
22 23 24 25 27 28 29 31 33 34 36
MGV-GENOME-0218024 8153:21541(+)
holin (CDS_0023) transcriptional repressor (CDS_0029)
amidase (CDS_0025)
31 33 36
20 21 22 24 26 27 28 30 32 34 35 37 38
uvig_152117_ 8153:23291(+)
transcriptional regulator (CDS_0021)
Retron_VI__HTH (CDS_0022)
24
17 18 19 20 23 25 26 27
MGV-GENOME-0203730 5509:20084(+)
transcriptional regulator (CDS_0020)
Retron_VI__HTH (CDS_0021)
23
17 18 19 22 24 25 26
MGV-GENOME-0195242 5509:18972(+)
transcriptional regulator (CDS_0022)
Retron_VI__HTH (CDS_0023)
26 29
17 18 19 20 21 2425 27 28 30
uvig_164512 5509:21404(+)
CDS_0017 CDS_0019
CDS_0018 CDS_0020
MGV-GENOME-0175661 5509:15849(+)
8000 nt
DNA, RNA and nucleotide metabolism
integration and excision
lysis
tail
transcription regulation
unknown function
Defence