deoxyribonucleoside 5' monophosphate phosphatase (CDS_0035)
excisionase (CDS_0030)
CDS_0033
DNA polymerase (CDS_0026)
CDS_0031
Retron_VI__HTH (CDS_0039)
CDS_0028
CDS_0032
CDS_0037
CDS_0027
CDS_0029
CDS_0034
CDS_0036
CDS_0038
CDS_0040
TemPhD_cluster_27417 20562:30713(+)
CDS_0033
CDS_0032
CDS_0031
CDS_0034
CDS_0037
TemPhD_cluster_41737 20544:30115(+)
CDS_0031
CDS_0030
CDS_0037
CDS_0029
CDS_0032
CDS_0036
transcriptional regulator (CDS_0039)
TemPhD_cluster_60701 21041:32261(+)
CDS_0034
CDS_0032
CDS_0035
CDS_0033
CDS_0042 primosomal protein (CDS_0043)
TemPhD_cluster_22487_ 20366:31614(+)
CDS_0034
CDS_0032
CDS_0035
CDS_0033
TemPhD_cluster_49594 20366:30292(+)
integrase (CDS_0030)
CDS_0034
CDS_0032
CDS_0035
UmuD-like protein (CDS_0026)
CDS_0033
TemPhD_cluster_32400 19902:30292(+)
CDS_0034
CDS_0040
CDS_0033
CDS_0035
CDS_0039
TemPhD_cluster_48980_ 20708:30928(+)
CDS_0030
CDS_0029
Dnd__DndB (CDS_0031)
CDS_0035
TemPhD_cluster_15641 19866:29964(+)
queuine tRNA-ribosyltransferase (CDS_0031)
CDS_0029
CDS_0030
CDS_0032
TemPhD_cluster_32056 19848:29594(+)
queuine tRNA-ribosyltransferase (CDS_0034)
CDS_0032
CDS_0033
CDS_0035
TemPhD_cluster_59018 26437:34923(+)
DNA methyltransferase (CDS_0030)
CDS_0029
CDS_0031
TemPhD_cluster_32417 20186:29865(+)
DNA methyltransferase (CDS_0033)
CDS_0032
CDS_0034
TemPhD_cluster_40100 26436:34984(+)
DNA methyltransferase (CDS_0034)
CDS_0033
CDS_0032
CDS_0035
TemPhD_cluster_13106 20877:30557(+)
DNA methyltransferase (CDS_0033)
CDS_0032
CDS_0034
TemPhD_cluster_24416 20347:27766(+)
DNA methyltransferase (CDS_0033)
CDS_0032
CDS_0034
TemPhD_cluster_24415 20347:27766(+)
DNA methyltransferase (CDS_0030)
CDS_0031
CDS_0037
CDS_0029
CDS_0032
CDS_0036
TemPhD_cluster_41797 20186:30197(+)
tail fiber protein (CDS_0022)
tail fiber protein (CDS_0021)
CDS_0029 deoxyribonucleoside 5' monophosphate phosphatase (CDS_0030)
TemPhD_cluster_29215 19030:32731(+)
CDS_0034
CDS_0032
CDS_0035
CDS_0027
CDS_0033
CDS_0038 CDS_0039
TemPhD_cluster_16529 18556:29763(+)
CDS_0034
CDS_0032
CDS_0035
CDS_0033
TemPhD_cluster_36565_ 18556:29763(+)
tail assembly chaperone (CDS_0022)
CDS_0020
CDS_0030
CDS_0028
CDS_0031
CDS_0036
tail fiber protein (CDS_0021)
Rck (VF0108) (CDS_0023)
CDS_0029
CDS_0035
TemPhD_cluster_35051 18734:33131(+)
DNA binding protein (CDS_0023)
CDS_0032
TTSS-2 secreted effectors (VF0947) (CDS_0025)
CDS_0030
CDS_0033
CDS_0024
CDS_0028
CDS_0031
TemPhD_cluster_59478 18787:33892(+)
CDS_0030
TemPhD_cluster_47170 26459:33182(+)
CDS_0023
CDS_0030
CDS_0024
CDS_0029
Dnd__DndB (CDS_0031)
TemPhD_cluster_40188 19030:33422(+)
DNA invertase (CDS_0035)
34
29
30 31 32 33
36
37
TemPhD_cluster_31802 20650:32283(+)
tail collar fiber protein (CDS_0033)
DNA invertase (CDS_0034)
29
30 31 32
35
36
TemPhD_cluster_31801 20650:32283(+)
DNA methyltransferase (CDS_0040)
Rck (VF0108) (CDS_0036)
30
31
32
33 34
35
39
41
IMGVR_UViG_2939107036_000003|2939107036|2939107036|2105715-2156136 20404:36597(+)
30
31
32
33 34
35
Rck (VF0108) (CDS_0036)
IMGVR_UViG_2627854268_000003|2627854268|2627929530|2645389-2695184 20422:35971(+)
tail fiber protein (CDS_0022)
27
28
29 30
31
Rck (VF0108) (CDS_0032)
IMGVR_UViG_2757320579_000001|2757320579|2757368151|959238-1009421 18236:34055(+)
Rck (VF0108) (CDS_0036)
transposase (CDS_0038)
30
31
32
33 34
35
37
39
IMGVR_UViG_2687453242_000006|2687453242|2687453711|2736699-2787551 20413:38376(+)
short tail fiber protein (CDS_0021)
transposase (CDS_0031)
2223O-acetyltransferase (CDS_0024)
29
30
32
33 34
35
Rck (VF0108) (CDS_0036)
IMGVR_UViG_2860993014_000003|2860993014|2860993014|1998889-2047840 16580:35571(+)
membrane protein (CDS_0022)
Rck (VF0108) (CDS_0032)
23
28
29 30
31
integrase (CDS_0033)
IMGVR_UViG_2875658422_000005|2875658422|2875658422|2724133-2773829 18773:35796(+)
central tail fiber J (CDS_0020)
DarTG__DarG (CDS_0023)
28
29
30
31
32
33
Rck (VF0108) (CDS_0034)
IMGVR_UViG_2660238184_000002|2660238184|2660275518|1950122-2002701 16624:38227(+)
28
29
30 31
32
Rck (VF0108) (CDS_0033)
IMGVR_UViG_2667527469_000005|2667527469|2667541890|2091980-2144560 16624:38228(+)
25 transposase (CDS_0026)
30
31
32
33 34
35
Rck (VF0108) (CDS_0036)
IMGVR_UViG_2939066265_000005|2939066265|2939066265|2733935-2790534 19037:39616(+)
CDS_0024
CDS_0030
TemPhD_cluster_34782 20375:33199(+)
excisionase (CDS_0027)
exonuclease (CDS_0028)
26
29 30 31
TemPhD_cluster_29235 17488:30395(+)
8000 nt
DNA, RNA and nucleotide metabolism
integration and excision
moron, auxiliary metabolic gene and host takeover
other
tail
transcription regulation
unknown function
Defence
Virulence