endonuclease (CDS_0036)
CDS_0032
CDS_0035
CDS_0034
CDS_0033
CDS_0037
CDS_0039
CDS_0038
CDS_0041
CDS_0040
CDS_0042
MGV-GENOME-0353839 30572:37265(+)
CDS_0037
IMGVR_UViG_3300045988_097272|3300045988|Ga0495776_186114 30542:37132(+)
CDS_0035 CDS_0037
CDS_0036
IMGVR_UViG_3300045988_103424|3300045988|Ga0495776_183552 30379:37185(+)
CDS_0035 CDS_0037
CDS_0036
MGV-GENOME-0368895 30379:37185(+)
CDS_0038
CDS_0037
CDS_0039
IMGVR_UViG_3300045988_122350|3300045988|Ga0495776_165612 30569:37200(+)
CDS_0039
CDS_0038
CDS_0040
CDS_0041
MGV-GENOME-0360369 30660:39177(+)
38
39 40 41
42
MGV-GENOME-0373737 30263:40301(+)
CDS_0035
CDS_0037
CDS_0036
CDS_0038
IMGVR_UViG_3300045988_100285|3300045988|Ga0495776_178724 30401:38520(+)
MutT/NUDIX hydrolase (CDS_0038)
endolysin (CDS_0041)
36
37
39 40
42
43
44
IMGVR_UViG_3300045988_140424|3300045988|Ga0495776_164939 30321:43316(+)
36
37
38 39
40 41 42
uvig_491222_ 29058:37797(+)
38
39 40 41
42
43
IMGVR_UViG_3300045988_104477|3300045988|Ga0495776_166071 30401:38648(+)
39
37
38
40 41
42
43
IMGVR_UViG_3300045988_125224|3300045988|Ga0495776_095591 30481:40287(+)
37
38 39
40
41
42
43
IMGVR_UViG_3300014545_000096|3300014545|Ga0134392_100004|75172-124988 30404:38934(+)
34
35
36 37
38
39
uvig_589836 29024:38044(+)
35
36
37 38
39
40
uvig_589921 30387:39679(+)
36
37
38 39
40
41
uvig_68071 30059:39828(+)
36 37 38
39
40
IMGVR_UViG_3300045988_107398|3300045988|Ga0495776_161909 29607:37602(+)
CDS_0036 CDS_0038
CDS_0037
CDS_0039
IMGVR_UViG_3300045988_107157|3300045988|Ga0495776_161912 30059:37430(+)
40
38
39
41
42
43 44
45
46
uvig_75423 30401:40648(+)
36
37
38
39 40
41
42
MGV-GENOME-0315058 30319:40130(+)
40
38 39
41 42
43
44
MGV-GENOME-0311907 30603:39412(+)
40
38
39
41 42
43
44
IMGVR_UViG_3300045988_133193|3300045988|Ga0495776_058052 30603:39528(+)
35 36 37
38
39
42
MGV-GENOME-0309131 30341:38783(+)
31
32
37
38
39 40
41
42
uvig_444778_ 26103:39406(+)
34
35
36
37
38
39 40
41
42
uvig_449519 28755:40459(+)
35
36
37
38 39
40
41
IMGVR_UViG_3300029779_000343|3300029779|Ga0243834_1000070|2-49734 28765:38057(+)
36
37
38 39
40
41
uvig_586955 30321:39347(+)
36
37
38
39
40 41
42
43
uvig_412592 30460:41739(+)
ABC transporter (CDS_0039)
36
37
38
40
41
42 43
44
45
uvig_118911 30139:44620(+)
37
40
36
38
39
41
42 43
44
45
uvig_561265 30306:41079(+)
37
36
38
39
40
MGV-GENOME-0313726 30460:37735(+)
35
36 37
38
39
MGV-GENOME-0322157 29923:37594(+)
CDS_0038
CDS_0039
CDS_0041
CDS_0040
IMGVR_UViG_3300045988_122391|3300045988|Ga0495776_161919 30312:37505(+)
40
38
39
41 42
43 44
45
MGV-GENOME-0353403 30567:40162(+)
39
40
41 42
43
44 45
46
47
MGV-GENOME-0317264 30466:41713(+)
38
39 40 41
42
43 44
45
46
MGV-GENOME-0356292 30263:41538(+)
42
38
39 40 41
43
44
45
IMGVR_UViG_3300045988_136366|3300045988|Ga0495776_156345 30263:39203(+)
acetyltransferase (CDS_0043)
38
39
40
41 42
44
45 46
47
48
IMGVR_UViG_3300029796_000007|3300029796|Ga0243875_1000422 30329:42221(+)
40 42
39
41
43
44
45 46
47
48
IMGVR_UViG_3300045988_134944|3300045988|Ga0495776_178686 30674:40929(+)
38
39 40
41
42
43
44
IMGVR_UViG_3300029365_000490|3300029365|Ga0243866_1000440|3922-55106 30329:39599(+)
36
37
38 39
40
41
46
IMGVR_UViG_3300045988_125330|3300045988|Ga0495776_077834 30375:39997(+)
37
38
39 40
41
42
uvig_282833 30165:40078(+)
endonuclease (CDS_0036)
37
38 39
40
41
uvig_521579 26116:38496(+)
36
37 38
39
40
MGV-GENOME-0304913 26180:37278(+)
endonuclease (CDS_0035)
36 37
38
39
IMGVR_UViG_3300045988_098207|3300045988|Ga0495776_019024 24878:36800(+)
37
38
39
40
41
42
43
44
45 46
47
48
49
50 51
52
53
IMGVR_UViG_3300029367_000031|3300029367|Ga0243974_100192 30519:51289(+)
37
38
39
40
41
42 43
44
45
IMGVR_UViG_3300029368_000056|3300029368|Ga0243967_100314 30519:42562(+)
38
39
40
41
42
43 44
45
46
47 48
49
50
uvig_63277 30660:43948(+)
34
35
36
37
38
39
40
41
42 43
44
45
IMGVR_UViG_3300029359_000152|3300029359|Ga0243835_1000312 28755:43805(+)
44
38
39
40
41
42
43
45 46
47
48
MGV-GENOME-4432036 30298:42614(+)
44
38
39
40
41
42
43
45 46
47
48
IMGVR_UViG_3300045988_113740|3300045988|Ga0495776_146526 30298:42614(+)
O-antigen (VF0392) (CDS_0046)
SigE (VF0295) (CDS_0043)
36
37
38 39
40
41 42
44
45
47
48
49
50 51
52
53
uvig_330970 30385:51675(+)
35
36
37
38
39
40
41
42
43
44
45
46 47
48
49
uvig_592639 30319:52358(+)
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49 50
51
52
uvig_392122 30012:50582(+)
39
43
38
40
41
42
44
45
46
51
52
MGV-GENOME-0328814 31103:41015(+)
acetyltransferase (CDS_0052)
integrase (CDS_0053)
44
38
39 40
41
42
43
45
46
47
48
49
50
51
54 55
56
57
uvig_440550 30329:50390(+)
Nucleotidyl transferase AbiEii__AbiEii toxin, Type IV TA system (CDS_0036)
33
30
31
32
34
35
37
38
39
40
41
42
43 44
45
46
uvig_443867_ 25234:42681(+)
Nucleotidyl transferase AbiEii__AbiEii toxin, Type IV TA system (CDS_0036)
33
30
31
32
34
35
37
38
39 40
41
42
IMGVR_UViG_3300029360_000197|3300029360|Ga0243814_1000848 25234:38441(+)
37 38
39
40
41
42
43
44 45
46
47
IMGVR_UViG_3300045988_139073|3300045988|Ga0495776_025666 30481:47221(+)
45
36 37
38
39
40
41
42
43 44
46 47
48
49
IMGVR_UViG_3300008096_000511|3300008096|Ga0114155_1000184|13456-72251 30357:47504(+)
nucleotide-sugar epimerase (CDS_0048)
45
36 37
38
39
40
41
42
43 44
46
47
49
50
51
MGV-GENOME-0348481 30357:49812(+)
transposase (CDS_0041)
42
36
37
38
39
40
43
44
45
46 47
48
49
uvig_86683 30655:49598(+)
CDS_0036
CDS_0038
CDS_0037
IMGVR_UViG_3300045988_094245|3300045988|Ga0495776_151149 30655:37669(+)
WYL_I_II_III_IV_V_VI_1 (CDS_0042)
38
39
40
41
43
44
45
46
47
48
49
50 51
52
53
uvig_53793 30410:49250(+)
CDS_0040
CDS_0037
CDS_0039
CDS_0038
CDS_0043
IMGVR_UViG_3300045988_105841|3300045988|Ga0495776_171373 31919:39021(+)
CDS_0040
IMGVR_UViG_3300045988_110485|3300045988|Ga0495776_158972 30901:37906(+)
CDS_0036
CDS_0043
IMGVR_UViG_3300045988_106145|3300045988|Ga0495776_159496 32401:38973(+)
38
39 40
41
42
43
44
45
46
47
48
49 50
51
52
53
54
55 56
57
58
uvig_34231 30263:55000(+)
endonuclease (CDS_0038)
CDS_0040
CDS_0032
CDS_0033
CDS_0039
IMGVR_UViG_3300001525_000082|3300001525|chfec4_10000145 25961:37458(+)
9000 nt
DNA, RNA and nucleotide metabolism
integration and excision
lysis
moron, auxiliary metabolic gene and host takeover
other
unknown function
Defence
Virulence