IMGVR_UViG_3300045988_173047|3300045988|Ga0495776_146457 14121:29102(+)

20 21 22 2324

25

endolysin (CDS_0026)

27 28 29 30 31

PD-Lambda-1__PD-Lambda-1 (CDS_0032)
33 3435

MGV-GENOME-0275130 14121:29102(+)

25

endolysin (CDS_0026)
27 28 29 30

uvig_162547 13773:27638(+)

24

endolysin (CDS_0025)
26
27 28 Retron_VI__HTH (CDS_0032)

IMGVR_UViG_3300045988_176565|3300045988|Ga0495776_176024 13773:27506(+)

CDS_0024

CDS_0025
CDS_0026

CDS_0027

IMGVR_UViG_2857861838_000001|2857861838|2857861890|31062-69947 13785:29109(+)

24

amidase (CDS_0025)

endolysin (CDS_0026)

27 28 29 30 34

uvig_419893 13783:31083(+)

24

endolysin (CDS_0025)
26 27 28 29

30
31 32 33 35

IMGVR_UViG_3300045988_172204|3300045988|Ga0495776_185524 13783:27503(+)

24

endolysin (CDS_0025)
2627 28 29

uvig_168739 14298:31882(+)

25

endolysin (CDS_0026)
27 28 29 30 31 32 33 35

MGV-GENOME-0271665 14298:28622(+)

25 26 27 28 29

uvig_189201 13830:35146(+)

25

endolysin (CDS_0026)
27 28 29 30 31 32 33 34 35 40

lipoprotein (CDS_0041)
42
43

IMGVR_UViG_3300029006_000080|3300029006|Ga0169631_100096|12372-51340 13849:29112(+)

25 26 27 28 29 30

replication protein (CDS_0032)
Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0033)

IMGVR_UViG_3300029523_000269|3300029523|Ga0244821_100068|4630-42687 13790:27587(+)

CDS_0024
CDS_0025

CDS_0026
QnrB family quinolone resistance pentapeptide repeat protein (NF000420.1) (CDS_0027)

uvig_568790 13840:30153(+)

24

endolysin (CDS_0025)
26 27 28 29

uvig_1401 13773:29780(+)

24

endolysin (CDS_0025)
26 27 28 29 30

MGV-GENOME-0250545 16242:26325(+)

CDS_0025

endolysin (CDS_0026)
CDS_0027

replication protein (CDS_0029)

Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0030)

MGV-GENOME-0272766 14021:30456(+)

24 25

endolysin (CDS_0026)
27
28 29 30 31 32 34 35

MGV-GENOME-0250391 14021:27216(+)

24 25

endolysin (CDS_0026)
27
28

uvig_171294 13805:28467(+)

18 20 24

amidase (CDS_0025)

endolysin (CDS_0026)

27 28 29

MGV-GENOME-0268505 13772:29801(+)

24

endolysin (CDS_0025)
2627 28 29 30

uvig_197990 14298:29970(+)

25

endolysin (CDS_0026)
27 28 29 30 transcriptional regulator (CDS_0033)

MGV-GENOME-0314130 14101:29436(+)

24

endolysin (CDS_0025)
26 27 28 29 30

MGV-GENOME-0248656 13772:26327(+)

CDS_0024

endolysin (CDS_0025)
CDS_0026
CDS_0027

uvig_596326 14674:33069(+)

25

endolysin (CDS_0026)
27 28 29 30 31 32 QnrB family quinolone resistance pentapeptide repeat protein (NF000420.1) (CDS_0033)

IMGVR_UViG_3300045988_174158|3300045988|Ga0495776_041524 13830:27630(+)

24

endolysin (CDS_0025)
26 27 28

IMGVR_UViG_3300045988_086445|3300045988|Ga0495776_021221 16267:26115(+)

CDS_0024

endolysin (CDS_0025)
CDS_0026
CDS_0028

uvig_380586 13778:26714(+)

24 25

26
27 28

uvig_386375 13812:41512(+)

24

endolysin (CDS_0025)
26 27 28 29 30 31

DNA polymerase (CDS_0032)

hydrolase (CDS_0033)

34 35 36 37 38 39 44

uvig_442113_ 16053:27656(+)

transcriptional regulator (CDS_0027)
CDS_0031

MGV-GENOME-0241446 14138:27449(+)

CDS_0025

endolysin (CDS_0026)
CDS_0027 CDS_0035

uvig_165886 16021:27255(+)

transcriptional regulator (CDS_0027)

CDS_0028
CDS_0032

CDS_0033

MGV-GENOME-0246079 13944:26937(+)

CDS_0024

endolysin (CDS_0025)
CDS_0026
CDS_0027

IMGVR_UViG_3300045988_089190|3300045988|Ga0495776_018160 13825:26936(+)

CDS_0024

endolysin (CDS_0025)
CDS_0026
CDS_0027

uvig_347551 13825:26905(+)

CDS_0020 CDS_0025

endolysin (CDS_0026)
CDS_0027
CDS_0028

MGV-GENOME-0246087 13609:26937(+)

CDS_0024

endolysin (CDS_0025)
CDS_0026
CDS_0027

uvig_1066 16248:27077(+)

CDS_0027CDS_0033

CDS_0034

MGV-GENOME-0247823 16750:29246(+)

replication protein (CDS_0029)

Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0030)
CDS_0038

uvig_491774_ 16628:28814(+)

replication protein (CDS_0027) Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0028)

MGV-GENOME-0283216 20270:30931(+)

CDS_0027

CDS_0028

replication protein (CDS_0030)

Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0031)

IMGVR_UViG_640612206_000001|640612206|640612200|270688-311069 19973:29827(+)

CDS_0030 CDS_0034

ivig_2684 16232:27688(+)

CDS_0027

uvig_445241_ 16238:27821(+)

CDS_0026 transcriptional regulator (CDS_0028)

uvig_182635 16246:27335(+)

transcriptional regulator (CDS_0027)

IMGVR_UViG_3300045988_130644|3300045988|Ga0495776_173146 16258:29178(+)

CDS_0026 PD-Lambda-1__PD-Lambda-1 (CDS_0028)

uvig_400330 16247:28208(+)

PD-Lambda-1__PD-Lambda-1 (CDS_0027)

IMGVR_UViG_3300029735_000226|3300029735|Ga0245259_100252|8560-47338 18424:30875(+)

PD-Lambda-1__PD-Lambda-1 (CDS_0029)
CDS_0033

uvig_187299 16245:28460(+)

PD-Lambda-1__PD-Lambda-1 (CDS_0027)

MGV-GENOME-0266426 20464:31506(+)

CDS_0031
CDS_0032

uvig_233392 16201:27478(+)

PD-Lambda-1__PD-Lambda-1 (CDS_0027)
CDS_0033

uvig_171775 16197:27176(+)

PD-Lambda-1__PD-Lambda-1 (CDS_0027)

uvig_384181 16516:27885(+)

replication protein (CDS_0028) Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0029)

uvig_86571 16529:27756(+)

CDS_0027

Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0028)
CDS_0034

MGV-GENOME-0247035 16253:27471(+)

replication protein (CDS_0028) Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0029)

MGV-GENOME-0255244 16282:27826(+)

CDS_0028

uvig_203615 16733:28304(+)

CDS_0029
CDS_0030

SRS023715_a1_ct28233_vs01 14299:26330(+)

CDS_0025

MGV-GENOME-0288746 13782:26454(+)

CDS_0024

IMGVR_UViG_3300045988_149403|3300045988|Ga0495776_167656 14275:26914(+)

CDS_0025 CDS_0026

uvig_560333 16342:28694(+)

replication protein (CDS_0028) Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0029)

uvig_239517 16215:28370(+)

replication protein (CDS_0027) Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0028)

uvig_554932 16051:29683(+)

replication protein (CDS_0028)

Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0029)

CDS_0030

Retron_VI__HTH (CDS_0031)
CDS_0038 RecT-like ssDNA annealing protein (CDS_0039)

MGV-GENOME-0267379 16198:29266(+)

CDS_0024 replication protein (CDS_0028)

Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0029)

uvig_388534 13835:27279(+)

24

endolysin (CDS_0025)
26 27

replication protein (CDS_0028)

Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0029)

uvig_420131 16371:26844(+)

CDS_0028

uvig_249035 16277:27729(+)

CDS_0028

IMGVR_UViG_3300045988_108483|3300045988|Ga0495776_161949 16294:25542(+)

CDS_0029

SRS077502_a1_ct4198 16237:26861(+)

CDS_0028 CDS_0031

MGV-GENOME-0244659 16237:26960(+)

CDS_0028

IMGVR_UViG_3300045988_156917|3300045988|Ga0495776_017774 16237:26916(+)

CDS_0024 CDS_0028

MGV-GENOME-0248710 16528:27348(+)

CDS_0028

OTU_3053 16244:27341(+)

CDS_0028
CDS_0029

MGV-GENOME-0311478 16199:26878(+)

CDS_0028 CDS_0035

MGV-GENOME-0249109 16271:27958(+)

replication protein (CDS_0028) Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0029)

ivig_1241 16210:27274(+)

CDS_0025

endolysin (CDS_0026)
PD-Lambda-1__PD-Lambda-1 (CDS_0028)

MGV-GENOME-0264419 16241:28935(+)

CDS_0023
CDS_0024 replication protein (CDS_0028)

Protein of unknown function (Retron_VII_2__DUF3800) (CDS_0029)

10000 nt

DNA, RNA and nucleotide metabolism lysis other tail transcription regulation unknown function Defence AMR