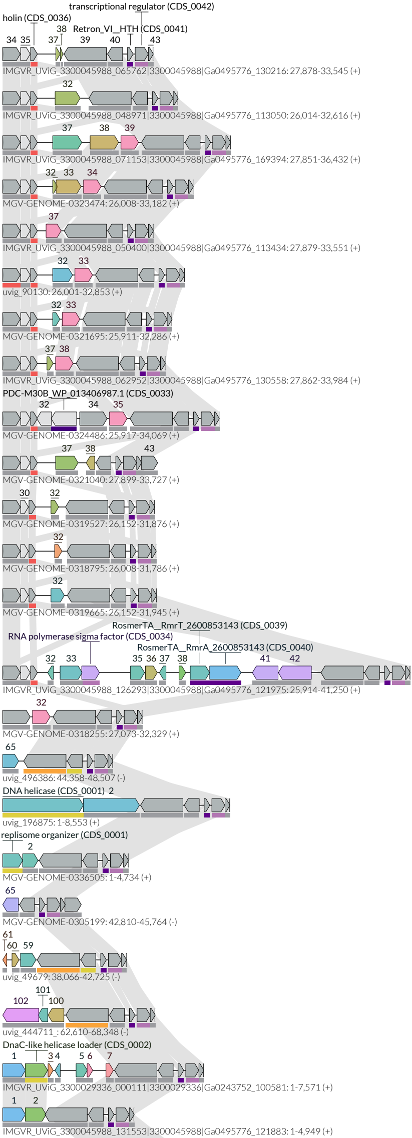
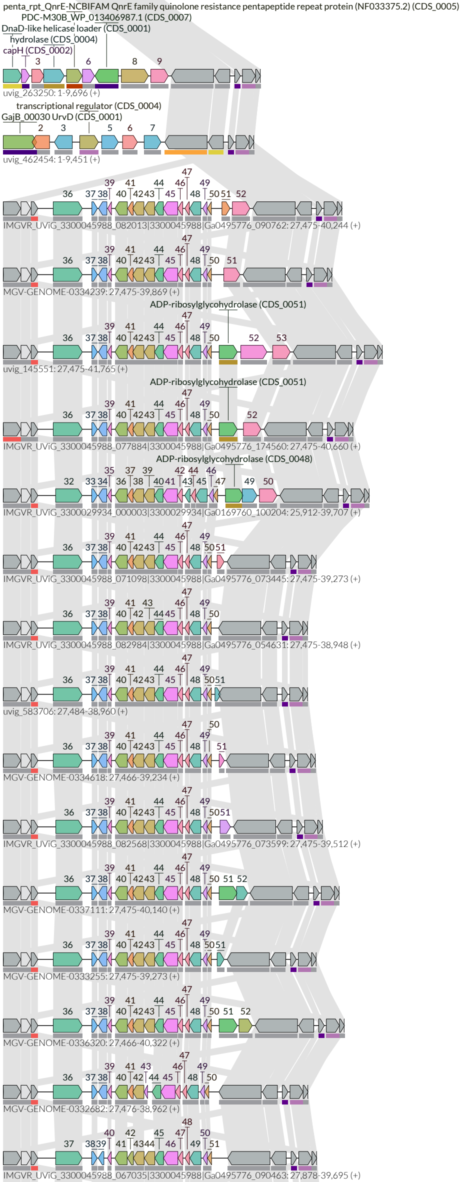
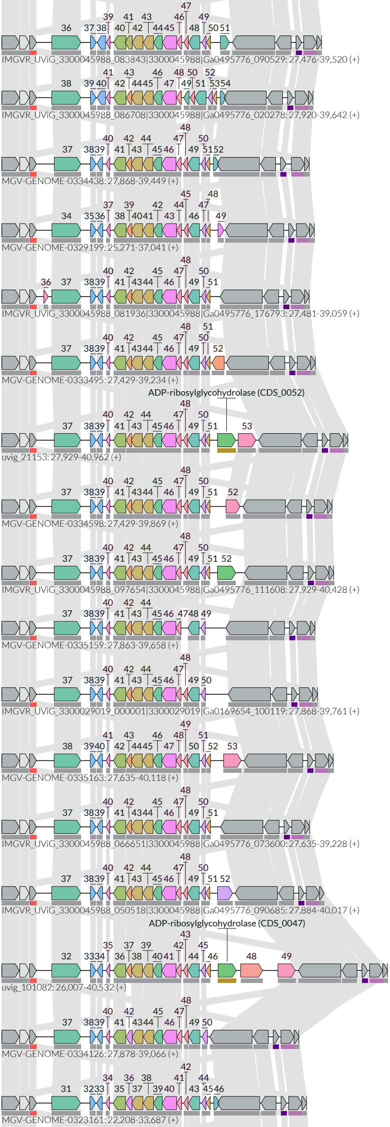
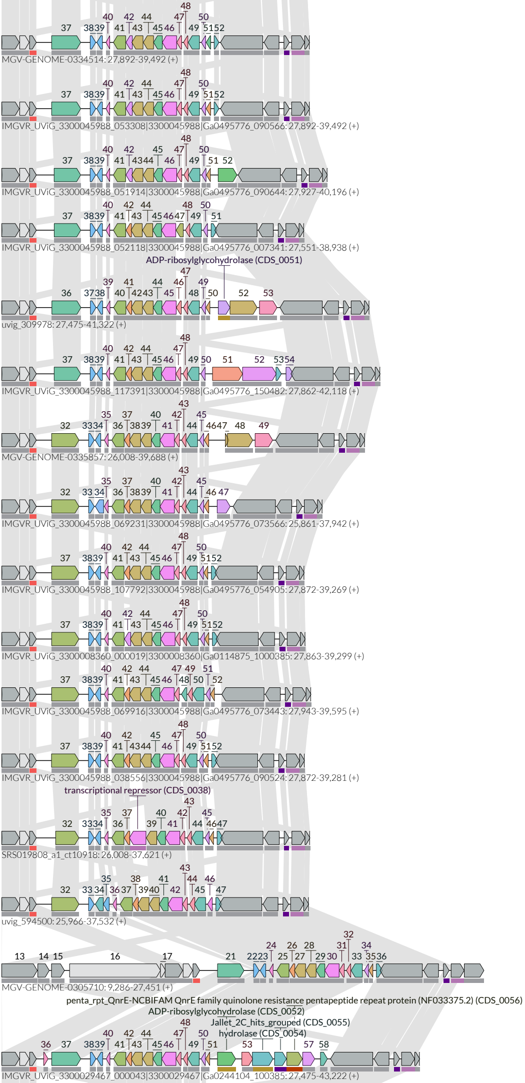
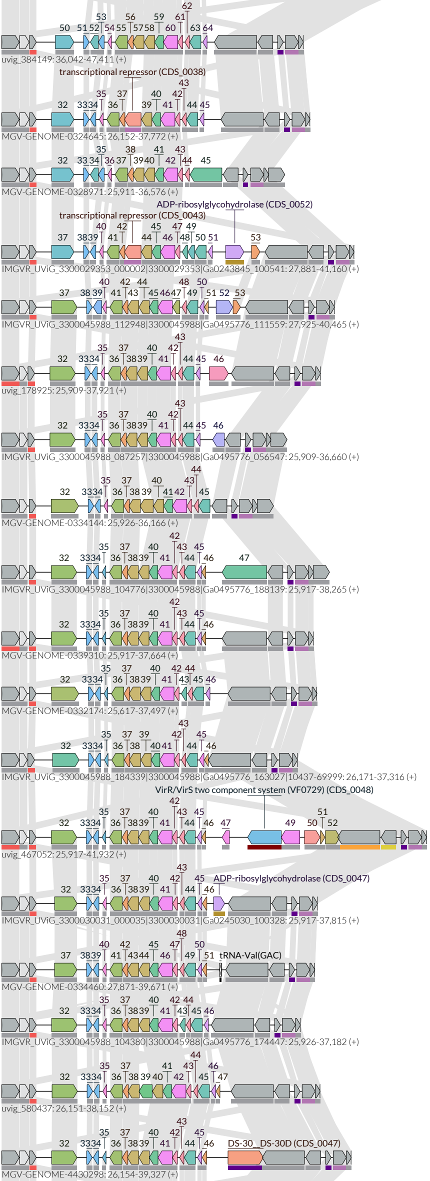
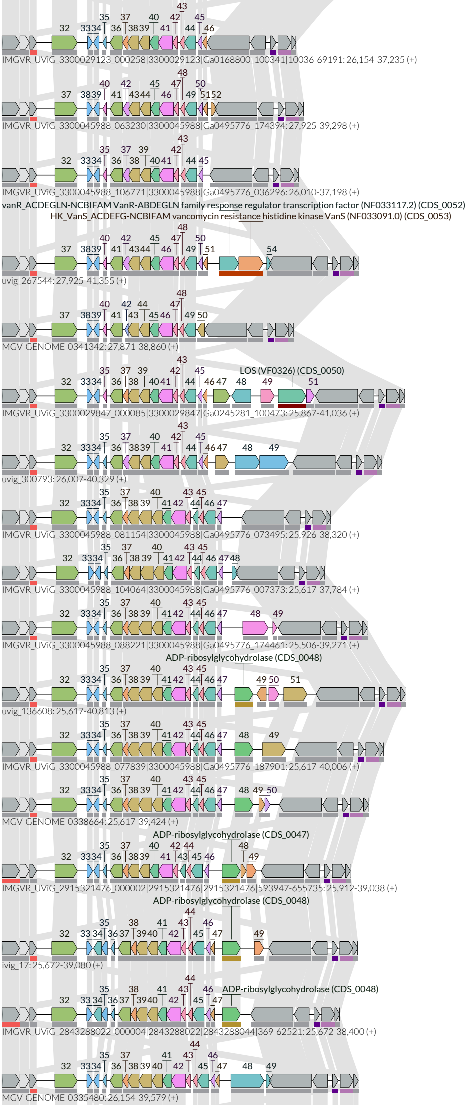

transcriptional regulator (CDS_0042)
holin (CDS_0036)
38
Retron_VI_HTH (CDS_0041)
34 35 37 39 40 43
IMGVR_UViG_3300045988_065762|3300045988|Ga0495776_130216: 27,878-33,545 (+)
32
IMGVR_UViG_3300045988_048971|3300045988|Ga0495776_113050: 26,014-32,616 (+)
37 38 39
IMGVR_UViG_3300045988_071153|3300045988|Ga0495776_169394: 27,851-36,432 (+)
32 33 34
MGV-GENOME-0323474: 26,008-33,182 (+)
37
IMGVR_UViG_3300045988_050400|3300045988|Ga0495776_113434: 27,879-33,551 (+)
32 33
uvig_90130: 26,001-32,853 (+)
32 33
MGV-GENOME-0321695: 25,911-32,286 (+)
37 38
IMGVR_UViG_3300045988_062952|3300045988|Ga0495776_130558: 27,862-33,984 (+)
PDC-M30B_WP_013406987.1 (CDS_0033)
32 34 35
MGV-GENOME-0324486: 25,917-34,069 (+)
37 38 43
MGV-GENOME-0321040: 27,899-33,727 (+)
30 32
MGV-GENOME-0319527: 26,152-31,876 (+)
32
MGV-GENOME-0318795: 26,008-31,786 (+)
32
MGV-GENOME-0319665: 26,152-31,945 (+)
RosmerTA__RmrT_2600853143 (CDS_0039)
RNA polymerase sigma factor (CDS_0034)
RosmerTA__RmrA_2600853143 (CDS_0040)
32 33 35 36 37 38 41 42
IMGVR_UViG_3300045988_126293|3300045988|Ga0495776_121975: 25,914-41,250 (+)
32
MGV-GENOME-0318255: 27,073-32,329 (+)
65
uvig_496386: 44,358-48,507 (-)
DNA helicase (CDS_0001) 2
uvig_196875: 1-8,553 (+)
replisome organizer (CDS_0001)
2
MGV-GENOME-0336505: 1-4,734 (+)
65
MGV-GENOME-0305199: 42,810-45,764 (-)
61
60 59
uvig_49679: 38,066-42,725 (-)
101
102 100
uvig_444711_: 62,610-68,348 (-)
DnaC-like helicase loader (CDS_0002)
1 3 4 5 6 7
IMGVR_UViG_3300029336_000111|3300029336|Ga0243752_100581: 1-7,571 (+)
1 2
IMGVR_UViG_3300045988_131553|3300045988|Ga0495776_121883: 1-4,949 (+)

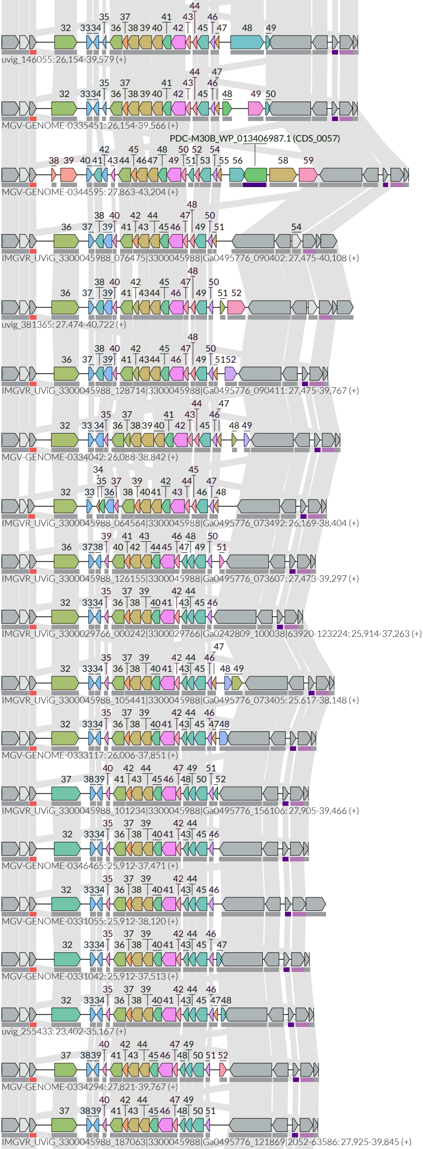

penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0005)
PDC-M30B_WP_013406987.1 (CDS_0007)
DnaD-like helicase loader (CDS_0001)
hydrolase (CDS_0004)
capH (CDS_0002)
3
6
8
9
uvig_263250: 1-9,696 (+)
transcriptional regulator (CDS_0004)
GajB_00030 UrvD (CDS_0001)
2
3
5
6
7
uvig_462454: 1-9,451 (+)
IMGVR_UViG_3300045988_082013|3300045988|Ga0495776_090762: 27,475-40,244 (+)
MGV-GENOME-0334239: 27,475-39,869 (+)
ADP-ribosylglycohydrolase (CDS_0051)
uvig_145551: 27,475-41,765 (+)
ADP-ribosylglycohydrolase (CDS_0051)
IMGVR_UViG_3300045988_077884|3300045988|Ga0495776_174560: 27,475-40,660 (+)
ADP-ribosylglycohydrolase (CDS_0048)
IMGVR_UViG_3300029934_000003|3300029934|Ga0169760_100204: 25,912-39,707 (+)
IMGVR_UViG_3300045988_071098|3300045988|Ga0495776_073445: 27,475-39,273 (+)
IMGVR_UViG_3300045988_082984|3300045988|Ga0495776_054631: 27,475-38,948 (+)
uvig_583706: 27,484-38,960 (+)
MGV-GENOME-0334618: 27,466-39,234 (+)
IMGVR_UViG_3300045988_082568|3300045988|Ga0495776_073599: 27,475-39,512 (+)
MGV-GENOME-0337111: 27,475-40,140 (+)
MGV-GENOME-0333255: 27,475-39,273 (+)
MGV-GENOME-0336320: 27,466-40,322 (+)
MGV-GENOME-0332682: 27,476-38,962 (+)
IMGVR_UViG_3300045988_067035|3300045988|Ga0495776_090463: 27,878-39,695 (+)

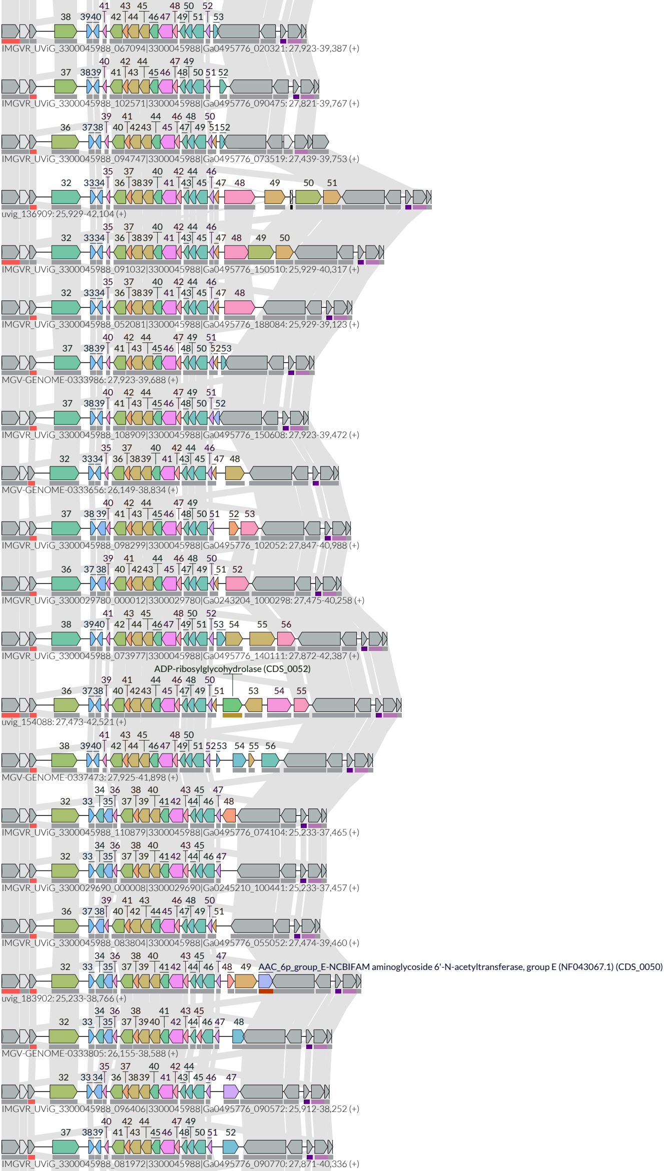

IMGVR_UViG_3300045988_083843|3300045988|Ga0495776_090529: 27,476-39,520 (+)
IMGVR_UViG_3300045988_086708|3300045988|Ga0495776_020278: 27,920-39,642 (+)
MGV-GENOME-0334438: 27,868-39,449 (+)
MGV-GENOME-0329199: 25,271-37,041 (+)
IMGVR_UViG_3300045988_081936|3300045988|Ga0495776_176793: 27,481-39,059 (+)
MGV-GENOME-0333495: 27,429-39,234 (+)
ADP-ribosylglycohydrolase (CDS_0052)
uvig_21153: 27,929-40,962 (+)
MGV-GENOME-0334598: 27,429-39,869 (+)
IMGVR_UViG_3300045988_097654|3300045988|Ga0495776_111608: 27,929-40,428 (+)
MGV-GENOME-0335159: 27,863-39,658 (+)
IMGVR_UViG_3300029019_000001|3300029019|Ga0169654_100119: 27,868-39,761 (+)
MGV-GENOME-0335163: 27,635-40,118 (+)
IMGVR_UViG_3300045988_066651|3300045988|Ga0495776_073600: 27,635-39,228 (+)
IMGVR_UViG_3300045988_050518|3300045988|Ga0495776_090685: 27,884-40,017 (+)
ADP-ribosylglycohydrolase (CDS_0047)
uvig_101082: 26,007-40,532 (+)
MGV-GENOME-0334126: 27,878-39,066 (+)
MGV-GENOME-0323161: 22,208-33,687 (+)


MGV-GENOME-0334514: 27,892-39,492 (+)
IMGVR_UViG_3300045988_053308|3300045988|Ga0495776_090566: 27,892-39,492 (+)
IMGVR_UViG_3300045988_051914|3300045988|Ga0495776_090644: 27,927-40,196 (+)
IMGVR_UViG_3300045988_052118|3300045988|Ga0495776_007341: 27,551-38,938 (+)
ADP-ribosylglycohydrolase (CDS_0051)
uvig_309978: 27,475-41,322 (+)
IMGVR_UViG_3300045988_117391|3300045988|Ga0495776_150482: 27,862-42,118 (+)
MGV-GENOME-0335857: 26,008-39,688 (+)
IMGVR_UViG_3300045988_069231|3300045988|Ga0495776_073566: 25,861-37,942 (+)
IMGVR_UViG_3300045988_107792|3300045988|Ga0495776_054905: 27,872-39,269 (+)
IMGVR_UViG_3300008360_000019|3300008360|Ga0114875_1000385: 27,863-39,299 (+)
IMGVR_UViG_3300045988_069916|3300045988|Ga0495776_073443: 27,943-39,595 (+)
IMGVR_UViG_3300045988_038556|3300045988|Ga0495776_090524: 27,872-39,281 (+)
transcriptional repressor (CDS_0038)
SRS019808_a1_ct10918: 26,008-37,621 (+)
uvig_594500: 25,966-37,532 (+)
MGV-GENOME-0305710: 9,286-27,451 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0056)
ADP-ribosylglycohydrolase (CDS_0052)
Jallet_2C_hits_grouped (CDS_0055)
hydrolase (CDS_0054)
IMGVR_UViG_3300029467_000043|3300029467|Ga0244104_100385: 27,475-43,222 (+)

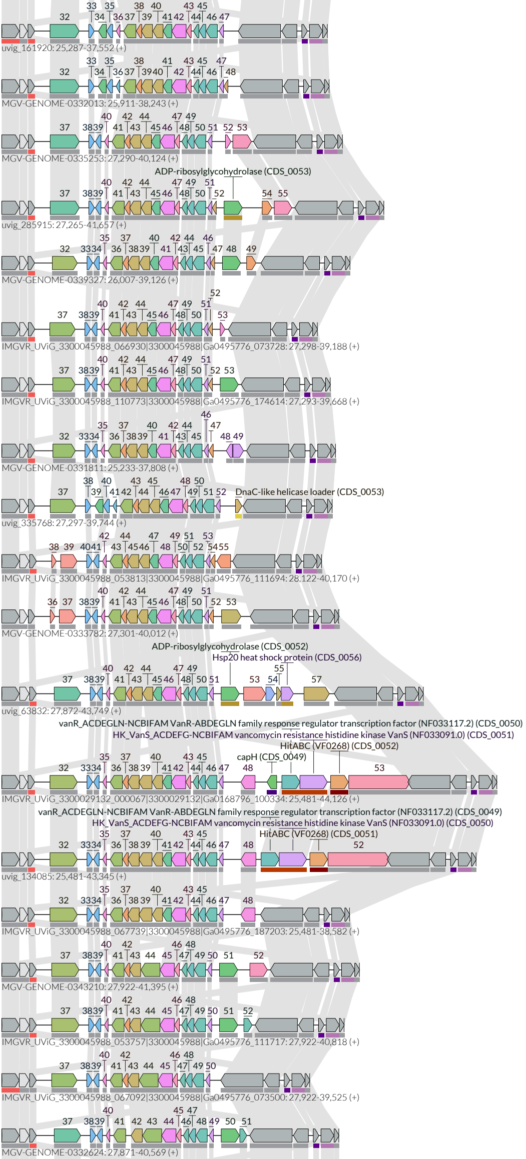
50 51 52 53 54 55 56 57 58 59 60 61 62 63 64
uvig_384149: 36,042-47,411 (+)
transcriptional repressor (CDS_0038)
32 33 34 35 36 37 39 40 41 42 43 44 45
MGV-GENOME-0324645: 26,152-37,772 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45
MGV-GENOME-0328971: 25,911-36,576 (+)
ADP-ribosylglycohydrolase (CDS_0052)
transcriptional repressor (CDS_0043)
37 38 39 40 41 42 44 45 46 47 48 49 50 51 53
IMGVR_UViG_3300029353_000002|3300029353|Ga0243845_100541: 27,881-41,160 (+)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53
IMGVR_UViG_3300045988_112948|3300045988|Ga0495776_111559: 27,925-40,465 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
uvig_178925: 25,909-37,921 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
IMGVR_UViG_3300045988_087257|3300045988|Ga0495776_056547: 25,909-36,660 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45
MGV-GENOME-0334144: 25,926-36,166 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
IMGVR_UViG_3300045988_104776|3300045988|Ga0495776_188139: 25,917-38,265 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
MGV-GENOME-0339310: 25,917-37,664 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
MGV-GENOME-0332174: 25,617-37,497 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
IMGVR_UViG_3300045988_184339|3300045988|Ga0495776_163027|10437-69999: 26,171-37,316 (+)
VirR/VirS two component system (VF0729) (CDS_0048)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 49 50 51 52
uvig_467052: 25,917-41,932 (+)
ADP-ribosylglycohydrolase (CDS_0047)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
IMGVR_UViG_3300030031_000035|3300030031|Ga0245030_100328: 25,917-37,815 (+)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
tRNA-Val(GAC)
MGV-GENOME-0334460: 27,871-39,671 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
IMGVR_UViG_3300045988_104380|3300045988|Ga0495776_174447: 25,926-37,182 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
uvig_580437: 26,151-38,152 (+)
DS-30_DS-30D (CDS_0047)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
MGV-GENOME-4430298: 26,154-39,327 (+)

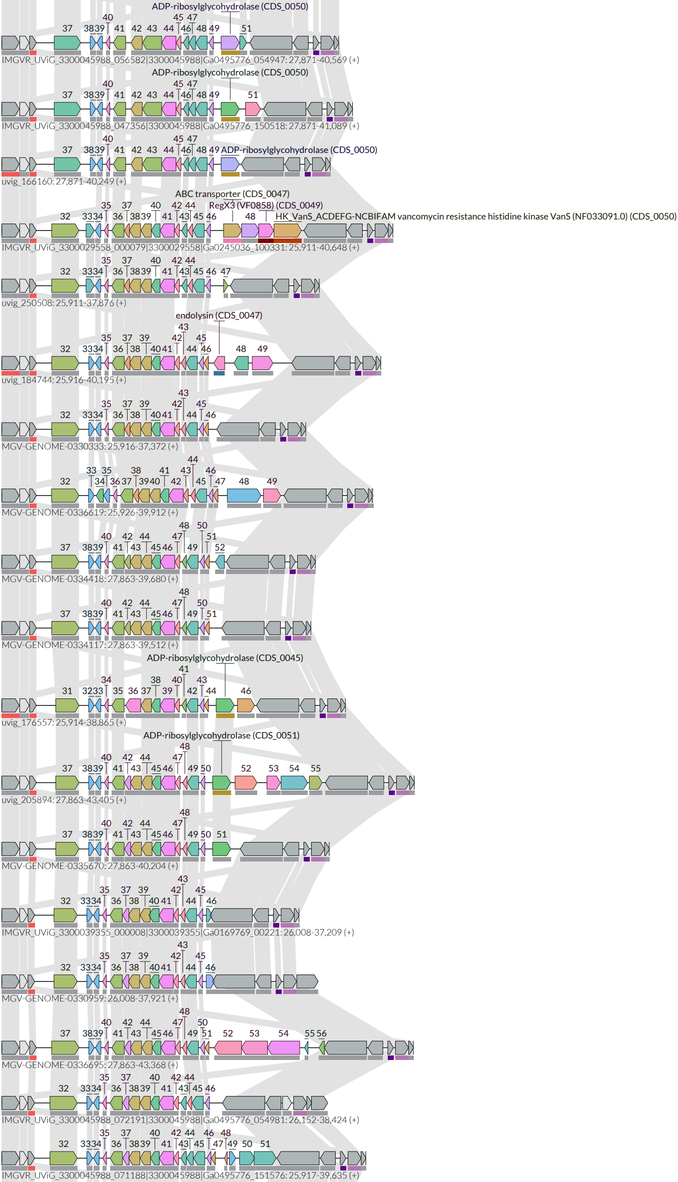

43
35 37 40 42 45
32 3334 36 38 39 41 44 46
IMGVR_UViG_3300029123_000258|3300029123|Ga0168800_100341|10036-69191: 26,154-37,235 (+)
48
40 42 45 47 50
37 3839 41 4344 46 49 5152
IMGVR_UViG_3300045988_063230|3300045988|Ga0495776_174394: 27,925-39,298 (+)
43
35 37 39 42
32 3334 36 38 4041 44 45
IMGVR_UViG_3300045988_106771|3300045988|Ga0495776_036296: 26,010-37,198 (+)
vanR_ACDEGLN-NCBIFAM VanR-ABDEGLN family response regulator transcription factor (NF033117.2) (CDS_0052)
HK_VanS_ACDEFG-NCBIFAM vancomycin resistance histidine kinase VanS (NF033091.0) (CDS_0053)
48
40 42 45 47 50
37 3839 41 4344 46 49 51 54
uvig_267544: 27,925-41,355 (+)
48
40 42 44 47
37 3839 41 43 4546 49 50
MGV-GENOME-0341342: 27,871-38,860 (+)
43
35 37 39 42 45
LOS (VF0326) (CDS_0050)
32 3334 36 38 4041 44 46 47 48 49 51
IMGVR_UViG_3300029847_000085|3300029847|Ga0245281_100473: 25,867-41,036 (+)
43
35 37 40 42 45
32 3334 36 3839 41 44 46 47 48 49
uvig_300793: 26,007-40,329 (+)
35 37 40 43 45
32 3334 36 38 39 4142 44 46 47
IMGVR_UViG_3300045988_081154|3300045988|Ga0495776_073495: 25,926-38,320 (+)
35 37 40 43 45
32 3334 36 38 39 4142 44 46 4748
IMGVR_UViG_3300045988_104064|3300045988|Ga0495776_007373: 25,617-37,784 (+)
35 37 40 43 45
32 3334 36 38 39 4142 44 46 47 48 49
IMGVR_UViG_3300045988_088221|3300045988|Ga0495776_174461: 25,506-39,271 (+)
ADP-ribosylglycohydrolase (CDS_0048)
35 37 40 43 45
32 3334 36 38 39 4142 44 46 47 4950 51
uvig_136608: 25,617-40,813 (+)
35 37 40 43 45
32 3334 36 38 39 4142 44 46 47 48 49
IMGVR_UViG_3300045988_077839|3300045988|Ga0495776_187901: 25,617-40,006 (+)
35 37 40 43 45
32 3334 36 38 39 4142 44 46 47 48 49 50
MGV-GENOME-0338664: 25,617-39,424 (+)
ADP-ribosylglycohydrolase (CDS_0047)
35 37 40 42 44 48
32 3334 36 38 39 41 43 45 46 49
IMGVR_UViG_2915321476_000002|2915321476|2915321476|593947-655735: 25,912-39,038 (+)
ADP-ribosylglycohydrolase (CDS_0048)
44
35 38 41 43 46
32 33 34 36 37 3940 42 45 47 49
ivig_17: 25,672-39,080 (+)
44
35 38 41 43 46 ADP-ribosylglycohydrolase (CDS_0048)
32 33 34 36 37 3940 42 45 47
IMGVR_UViG_2843288022_000004|2843288022|2843288044|369-62521: 25,672-38,400 (+)
44
35 37 41 43 46
32 3334 36 38 39 40 42 45 47 48 49
MGV-GENOME-0335480: 26,154-39,579 (+)

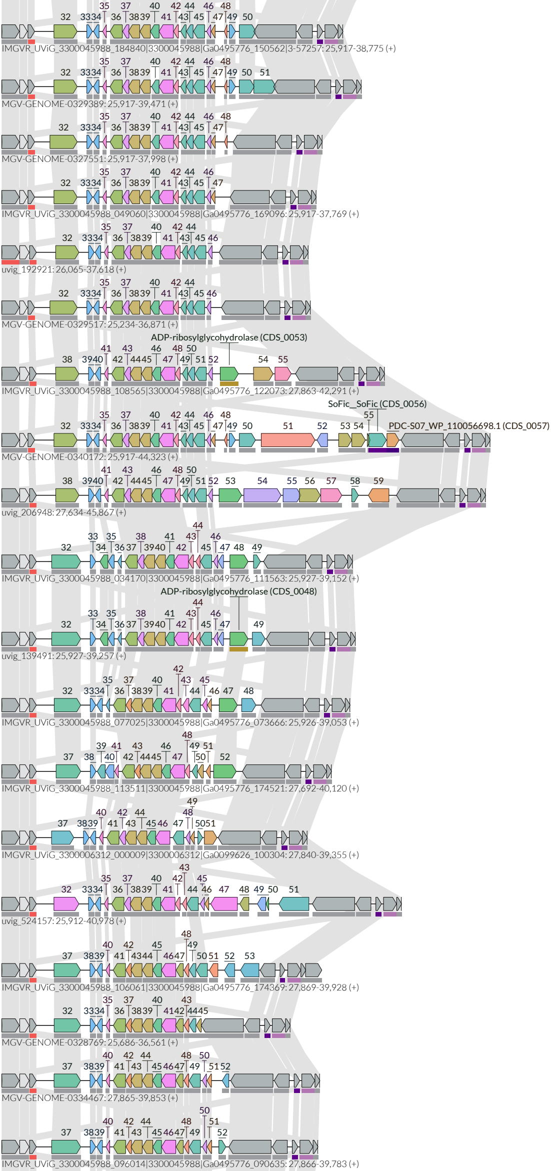

uvig_146055: 26,154-39,579 (+)
MGV-GENOME-0335451: 26,154-39,566 (+)
PDC-M30B_WP_013406987.1 (CDS_0057)
MGV-GENOME-0344595: 27,863-43,204 (+)
IMGVR_UViG_3300045988_076475|3300045988|Ga0495776_090402: 27,475-40,108 (+)
uvig_381365: 27,474-40,722 (+)
IMGVR_UViG_3300045988_128714|3300045988|Ga0495776_090411: 27,475-39,767 (+)
MGV-GENOME-0334042: 26,088-38,842 (+)
IMGVR_UViG_3300045988_064564|3300045988|Ga0495776_073492: 26,169-38,404 (+)
IMGVR_UViG_3300045988_126155|3300045988|Ga0495776_073607: 27,473-39,297 (+)
IMGVR_UViG_3300029766_000242|3300029766|Ga0242809_100038|63920-123224: 25,914-37,263 (+)
IMGVR_UViG_3300045988_105441|3300045988|Ga0495776_073405: 25,617-38,148 (+)
MGV-GENOME-0333117: 26,006-37,851 (+)
IMGVR_UViG_3300045988_101234|3300045988|Ga0495776_156106: 27,905-39,466 (+)
MGV-GENOME-0346465: 25,912-37,471 (+)
MGV-GENOME-0331055: 25,912-38,120 (+)
MGV-GENOME-0331042: 25,912-37,513 (+)
uvig_255433: 23,402-35,167 (+)
MGV-GENOME-0334294: 27,821-39,767 (+)
IMGVR_UViG_3300045988_187063|3300045988|Ga0495776_121869|2052-63586: 27,925-39,845 (+)

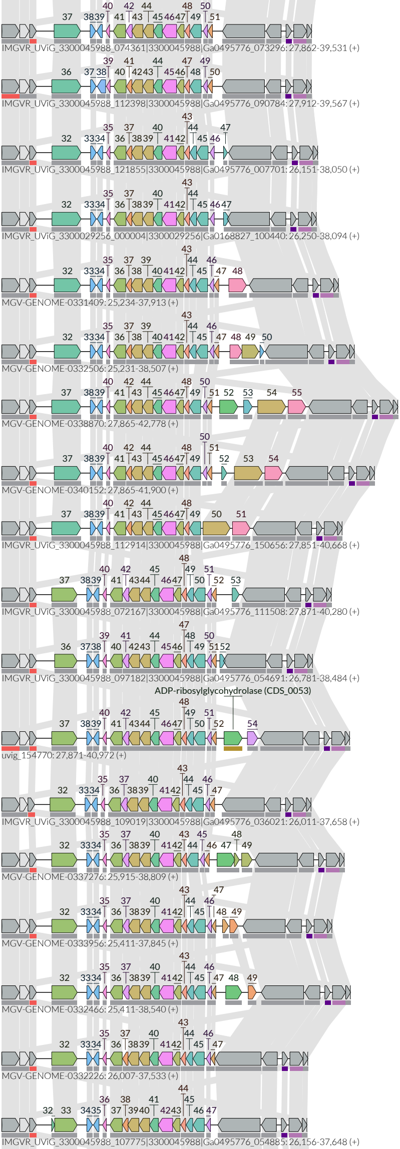


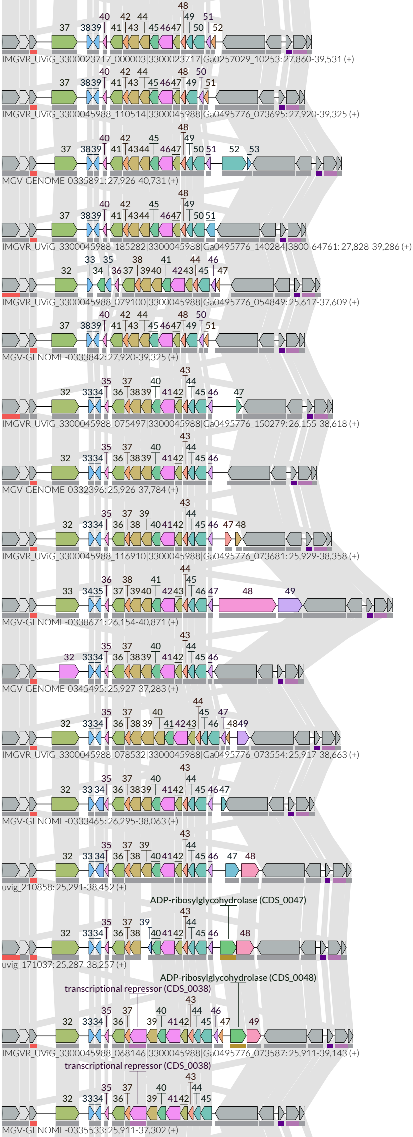
IMGVR_UViG_3300045988_067094|3300045988|Ga0495776_020321: 27,923-39,387 (+)
IMGVR_UViG_3300045988_102571|3300045988|Ga0495776_090475: 27,821-39,767 (+)
IMGVR_UViG_3300045988_094747|3300045988|Ga0495776_073519: 27,439-39,753 (+)
uvig_136909: 25,929-42,104 (+)
IMGVR_UViG_3300045988_091032|3300045988|Ga0495776_150510: 25,929-40,317 (+)
IMGVR_UViG_3300045988_052081|3300045988|Ga0495776_188084: 25,929-39,123 (+)
MGV-GENOME-0333986: 27,923-39,688 (+)
IMGVR_UViG_3300045988_108909|3300045988|Ga0495776_150608: 27,923-39,472 (+)
MGV-GENOME-0333656: 26,149-38,834 (+)
IMGVR_UViG_3300045988_098299|3300045988|Ga0495776_102052: 27,847-40,988 (+)
IMGVR_UViG_3300029780_000012|3300029780|Ga0243204_1000298: 27,475-40,258 (+)
IMGVR_UViG_3300045988_073977|3300045988|Ga0495776_140111: 27,872-42,387 (+)
ADP-ribosylglycohydrolase (CDS_0052)
uvig_154088: 27,473-42,521 (+)
MGV-GENOME-0337473: 27,925-41,898 (+)
IMGVR_UViG_3300045988_110879|3300045988|Ga0495776_074104: 25,233-37,465 (+)
IMGVR_UViG_3300029690_000008|3300029690|Ga0245210_100441: 25,233-37,457 (+)
IMGVR_UViG_3300045988_083804|3300045988|Ga0495776_055052: 27,474-39,460 (+)
AAC_6p_group_E-NCBIFAM aminoglycoside 6'-N-acetyltransferase, group E (NF043067.1) (CDS_0050)
uvig_183902: 25,233-38,766 (+)
MGV-GENOME-0333805: 26,155-38,588 (+)
IMGVR_UViG_3300045988_096406|3300045988|Ga0495776_090572: 25,912-38,252 (+)
IMGVR_UViG_3300045988_081972|3300045988|Ga0495776_090770: 27,871-40,336 (+)

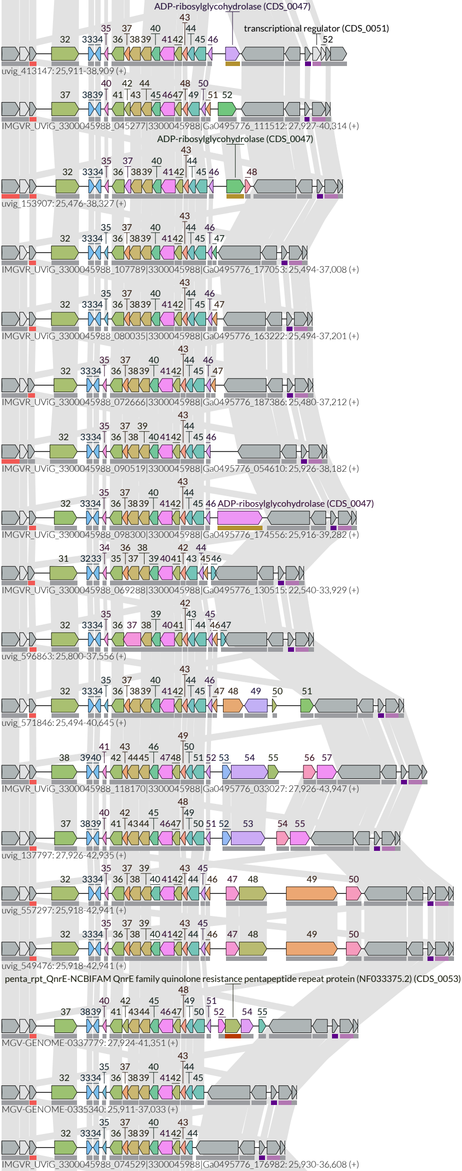

33 35 38 40 43 45
32 34 36 37 39 41 42 44 46 47
uvig_161920: 25,287-37,552 (+)
33 35 38 41 43 45 47
32 34 36 37 39 40 42 44 46 48
MGV-GENOME-0332013: 25,911-38,243 (+)
40 42 44 47 49
37 38 39 41 43 45 46 48 50 51 52 53
MGV-GENOME-0335253: 27,290-40,124 (+)
ADP-ribosylglycohydrolase (CDS_0053)
40 42 44 47 49 51
37 38 39 41 43 45 46 48 50 52 54 55
uvig_285915: 27,265-41,657 (+)
35 37 40 42 44 46
32 33 34 36 38 39 41 43 45 47 48 49
MGV-GENOME-0339327: 26,007-39,126 (+)
52
40 42 44 47 49 51
37 38 39 41 43 45 46 48 50 53
IMGVR_UViG_3300045988_066930|3300045988|Ga0495776_073728: 27,298-39,188 (+)
40 42 44 47 49 51
37 38 39 41 43 45 46 48 50 52 53
IMGVR_UViG_3300045988_110773|3300045988|Ga0495776_174614: 27,293-39,668 (+)
46
35 37 40 42 44 47
32 33 34 36 38 39 41 43 45 48 49
MGV-GENOME-0331811: 25,233-37,808 (+)
38 40 43 45 48 50
37 39 41 42 44 46 47 49 51 52
DnaC-like helicase loader (CDS_0053)
uvig_335768: 27,297-39,744 (+)
42 44 47 49 51 53
38 39 40 41 43 45 46 48 50 52 54 55
IMGVR_UViG_3300045988_053813|3300045988|Ga0495776_111694: 28,122-40,170 (+)
40 42 44 47 49 51
36 37 38 39 41 43 45 46 48 50 52 53
MGV-GENOME-0333782: 27,301-40,012 (+)
ADP-ribosylglycohydrolase (CDS_0052)
Hsp20 heat shock protein (CDS_0056)
40 42 44 47 49 55
37 38 39 41 43 45 46 48 50 51 53 54 57
uvig_63832: 27,872-43,749 (+)
vanR_ACDEGLN-NCBIFAM VanR-ABDEGLN family response regulator transcription factor (NF033117.2) (CDS_0050)
HK_VanS_ACDEFG-NCBIFAM vancomycin resistance histidine kinase VanS (NF033091.0) (CDS_0051)
HitABC (VF0268) (CDS_0052)
35 37 40 43 45
capH (CDS_0049)
32 33 34 36 38 39 41 42 44 46 47 48 53
IMGVR_UViG_3300029132_000067|3300029132|Ga0168796_100334: 25,481-44,126 (+)
vanR_ACDEGLN-NCBIFAM VanR-ABDEGLN family response regulator transcription factor (NF033117.2) (CDS_0049)
HK_VanS_ACDEFG-NCBIFAM vancomycin resistance histidine kinase VanS (NF033091.0) (CDS_0050)
HitABC (VF0268) (CDS_0051)
35 37 40 43 45
32 33 34 36 38 39 41 42 44 46 47 48 52
uvig_134085: 25,481-43,345 (+)
35 37 40 43 45
32 33 34 36 38 39 41 42 44 46 47 48
IMGVR_UViG_3300045988_067739|3300045988|Ga0495776_187203: 25,481-38,582 (+)
40 42 46 48
37 38 39 41 43 44 45 47 49 50 51 52
MGV-GENOME-0343210: 27,922-41,395 (+)
40 42 46 48
37 38 39 41 43 44 45 47 49 50 51 52
IMGVR_UViG_3300045988_053757|3300045988|Ga0495776_111717: 27,922-40,818 (+)
40 42 46 48
37 38 39 41 43 44 45 47 49 50
IMGVR_UViG_3300045988_067092|3300045988|Ga0495776_073500: 27,922-39,525 (+)
40 45 47
37 38 39 41 42 43 44 46 48 49 50 51
MGV-GENOME-0332624: 27,871-40,569 (+)

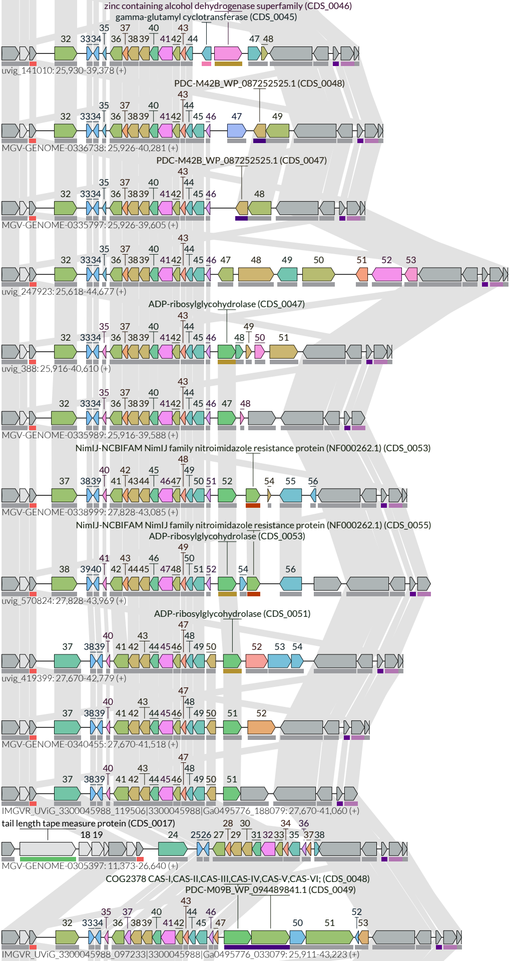

ADP-ribosylglycohydrolase (CDS_0050)
37 38 39 40 41 42 43 44 45 46 47 48 49 51
IMGVR_UViG_3300045988_056582|3300045988|Ga0495776_054947: 27,871-40,569 (+)
ADP-ribosylglycohydrolase (CDS_0050)
37 38 39 40 41 42 43 44 45 46 47 48 49 51
IMGVR_UViG_3300045988_047356|3300045988|Ga0495776_150518: 27,871-41,089 (+)
37 38 39 40 41 42 43 44 45 46 47 48 49
ADP-ribosylglycohydrolase (CDS_0050)
uvig_166160: 27,871-40,249 (+)
ABC transporter (CDS_0047)
RegX3 (VF0858) (CDS_0049)
HK_VanS_ACDEFG-NCBIFAM vancomycin resistance histidine kinase VanS (NF033091.0) (CDS_0050)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 48
IMGVR_UViG_3300029558_000079|3300029558|Ga0245036_100331: 25,911-40,648 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
uvig_250508: 25,911-37,876 (+)
endolysin (CDS_0047)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 48 49
uvig_184744: 25,916-40,195 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
MGV-GENOME-0330333: 25,916-37,372 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49
MGV-GENOME-0336619: 25,926-39,912 (+)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
MGV-GENOME-0334418: 27,863-39,680 (+)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
MGV-GENOME-0334117: 27,863-39,512 (+)
ADP-ribosylglycohydrolase (CDS_0045)
31 32 33 34 35 36 37 38 39 40 41 42 43 44 46
uvig_176557: 25,914-38,865 (+)
ADP-ribosylglycohydrolase (CDS_0051)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 52 53 54 55
uvig_205894: 27,863-43,405 (+)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
MGV-GENOME-0335670: 27,863-40,204 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
IMGVR_UViG_3300039355_000008|3300039355|Ga0169769_00221: 26,008-37,209 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
MGV-GENOME-0330959: 26,008-37,921 (+)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
MGV-GENOME-0336695: 27,863-43,368 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
IMGVR_UViG_3300045988_072191|3300045988|Ga0495776_054981: 26,152-38,424 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
IMGVR_UViG_3300045988_071188|3300045988|Ga0495776_151576: 25,917-39,635 (+)

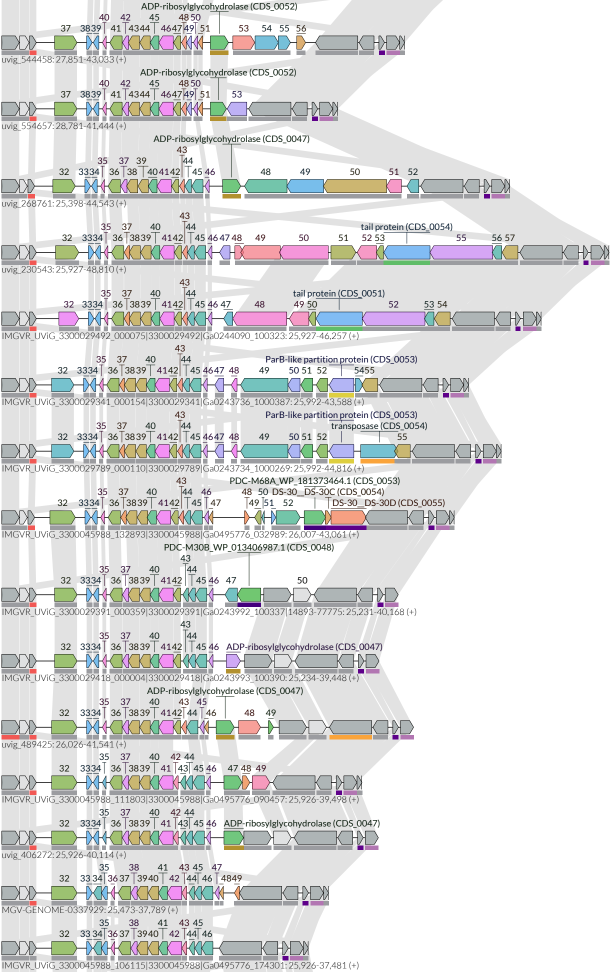

35 37 40 42 44 46 48
32 3334 36 3839 41 43 45 47 49 50
IMGVR_UViG_3300045988_184840|3300045988|Ga0495776_150562|3-57257: 25,917-38,775 (+)
35 37 40 42 44 46 48
32 3334 36 3839 41 43 45 47 49 50 51
MGV-GENOME-0329389: 25,917-39,471 (+)
35 37 40 42 44 46 48
32 3334 36 3839 41 43 45 47
MGV-GENOME-0327551: 25,917-37,998 (+)
35 37 40 42 44 46
32 3334 36 3839 41 43 45 47
IMGVR_UViG_3300045988_049060|3300045988|Ga0495776_169096: 25,917-37,769 (+)
35 37 40 42 44
32 3334 36 3839 41 43 45 46
uvig_192921: 26,065-37,618 (+)
35 37 40 42 44
32 3334 36 3839 41 43 45 46
MGV-GENOME-0329517: 25,234-36,871 (+)
ADP-ribosylglycohydrolase (CDS_0053)
41 43 46 48 50
38 3940 42 4445 47 49 51 52 54 55
IMGVR_UViG_3300045988_108565|3300045988|Ga0495776_122073: 27,863-42,291 (+)
SoFic__SoFic (CDS_0056)
35 37 40 42 44 46 48 55
32 3334 36 3839 41 43 45 47 49 50 51 52 53 54
PDC-S07_WP_110056698.1 (CDS_0057)
MGV-GENOME-0340172: 25,917-44,323 (+)
41 43 46 48 50
38 3940 42 4445 47 49 51 52 53 54 55 56 57 58 59
uvig_206948: 27,634-45,867 (+)
44
33 35 38 41 43 46
32 34 36 37 3940 42 45 47 48 49
IMGVR_UViG_3300045988_034170|3300045988|Ga0495776_111563: 25,927-39,152 (+)
ADP-ribosylglycohydrolase (CDS_0048)
44
33 35 38 41 43 46
32 34 36 37 3940 42 45 47 49
uvig_139491: 25,927-39,257 (+)
42
35 37 40 43 45
32 3334 36 3839 41 44 46 47 48
IMGVR_UViG_3300045988_077025|3300045988|Ga0495776_073666: 25,926-39,053 (+)
48
39 41 43 46 49 51
37 38 40 42 4445 47 50 52
IMGVR_UViG_3300045988_113511|3300045988|Ga0495776_174521: 27,692-40,120 (+)
49
40 42 44 48
37 3839 41 43 45 46 47 5051
IMGVR_UViG_3300006312_000009|3300006312|Ga0099626_100304: 27,840-39,355 (+)
43
35 37 40 42 45
32 3334 36 3839 41 44 46 47 48 49 50 51
uvig_524157: 25,912-40,978 (+)
48
40 42 45 49
37 3839 41 4344 4647 50 51 52 53
IMGVR_UViG_3300045988_106061|3300045988|Ga0495776_174369: 27,869-39,928 (+)
35 37 40 43
32 3334 36 3839 4142 4445
MGV-GENOME-0328769: 25,686-36,561 (+)
40 42 44 48 50
37 3839 41 43 45 4647 49 51 52
MGV-GENOME-0334467: 27,865-39,853 (+)
50
40 42 44 48 51
37 3839 41 43 45 4647 49 52
IMGVR_UViG_3300045988_096014|3300045988|Ga0495776_090635: 27,866-39,783 (+)

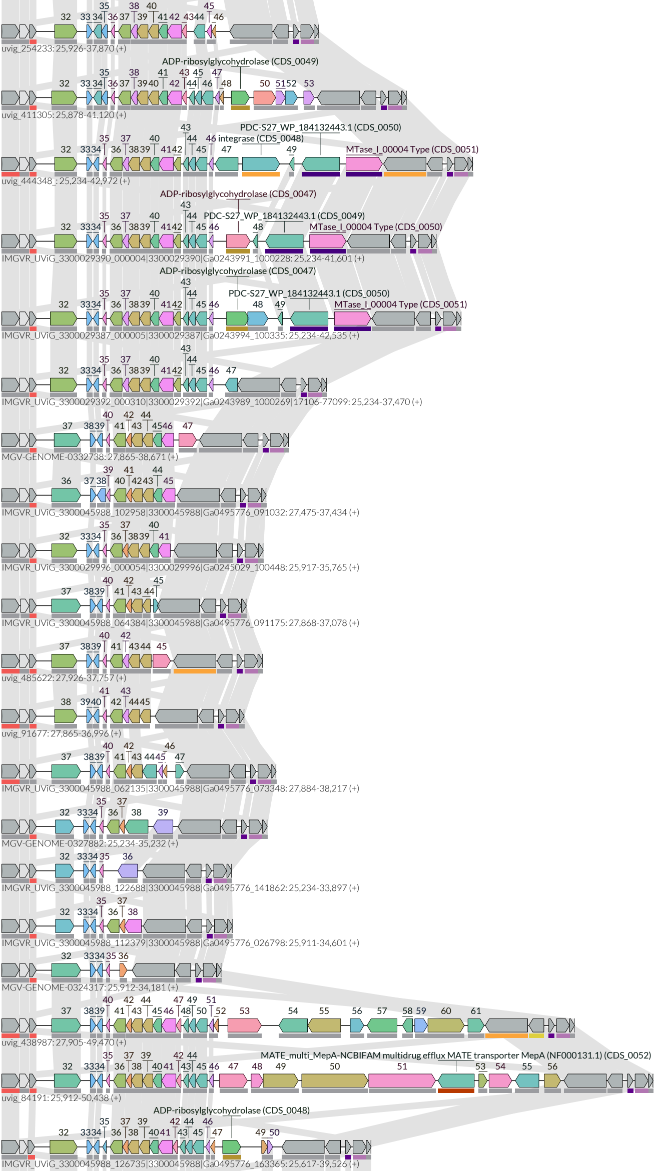

IMGVR_UViG_3300045988_074361|3300045988|Ga0495776_073296: 27,862-39,531 (+)
IMGVR_UViG_3300045988_112398|3300045988|Ga0495776_090784: 27,912-39,567 (+)
IMGVR_UViG_3300045988_121855|3300045988|Ga0495776_007701: 26,151-38,050 (+)
IMGVR_UViG_3300029256_000004|3300029256|Ga0168827_100440: 26,250-38,094 (+)
MGV-GENOME-0331409: 25,234-37,913 (+)
MGV-GENOME-0332506: 25,231-38,507 (+)
MGV-GENOME-0338870: 27,865-42,778 (+)
MGV-GENOME-0340152: 27,865-41,900 (+)
IMGVR_UViG_3300045988_112914|3300045988|Ga0495776_150656: 27,851-40,668 (+)
IMGVR_UViG_3300045988_072167|3300045988|Ga0495776_111508: 27,871-40,280 (+)
IMGVR_UViG_3300045988_097182|3300045988|Ga0495776_054691: 26,781-38,484 (+)
ADP-ribosylglycohydrolase (CDS_0053)
uvig_154770: 27,871-40,972 (+)
IMGVR_UViG_3300045988_109019|3300045988|Ga0495776_036021: 26,011-37,658 (+)
MGV-GENOME-0337276: 25,915-38,809 (+)
MGV-GENOME-0333956: 25,411-37,845 (+)
MGV-GENOME-0332466: 25,411-38,540 (+)
MGV-GENOME-0332226: 26,007-37,533 (+)
IMGVR_UViG_3300045988_107775|3300045988|Ga0495776_054885: 26,156-37,648 (+)

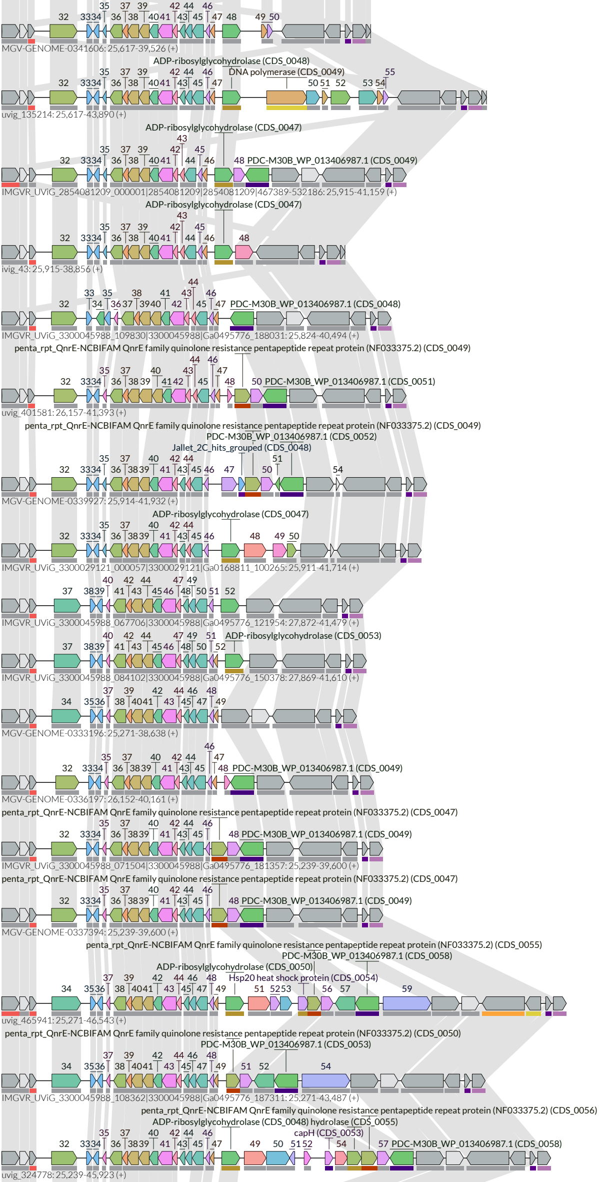

IMGVR_UViG_3300023717_000003|3300023717|Ga0257029_10253: 27,860-39,531 (+)
IMGVR_UViG_3300045988_110514|3300045988|Ga0495776_073695: 27,920-39,325 (+)
MGV-GENOME-0335891: 27,926-40,731 (+)
IMGVR_UViG_3300045988_185282|3300045988|Ga0495776_140284|3800-64761: 27,828-39,286 (+)
IMGVR_UViG_3300045988_079100|3300045988|Ga0495776_054849: 25,617-37,609 (+)
MGV-GENOME-0333842: 27,920-39,325 (+)
IMGVR_UViG_3300045988_075497|3300045988|Ga0495776_150279: 26,155-38,618 (+)
MGV-GENOME-0332396: 25,926-37,784 (+)
IMGVR_UViG_3300045988_116910|3300045988|Ga0495776_073681: 25,929-38,358 (+)
MGV-GENOME-0338671: 26,154-40,871 (+)
MGV-GENOME-0345495: 25,927-37,283 (+)
IMGVR_UViG_3300045988_078532|3300045988|Ga0495776_073554: 25,917-38,663 (+)
MGV-GENOME-0333465: 26,295-38,063 (+)
uvig_210858: 25,291-38,452 (+)
ADP-ribosylglycohydrolase (CDS_0047)
uvig_171037: 25,287-38,257 (+)
ADP-ribosylglycohydrolase (CDS_0048)
transcriptional repressor (CDS_0038)
IMGVR_UViG_3300045988_068146|3300045988|Ga0495776_073587: 25,911-39,143 (+)
transcriptional repressor (CDS_0038)
MGV-GENOME-0335533: 25,911-37,302 (+)

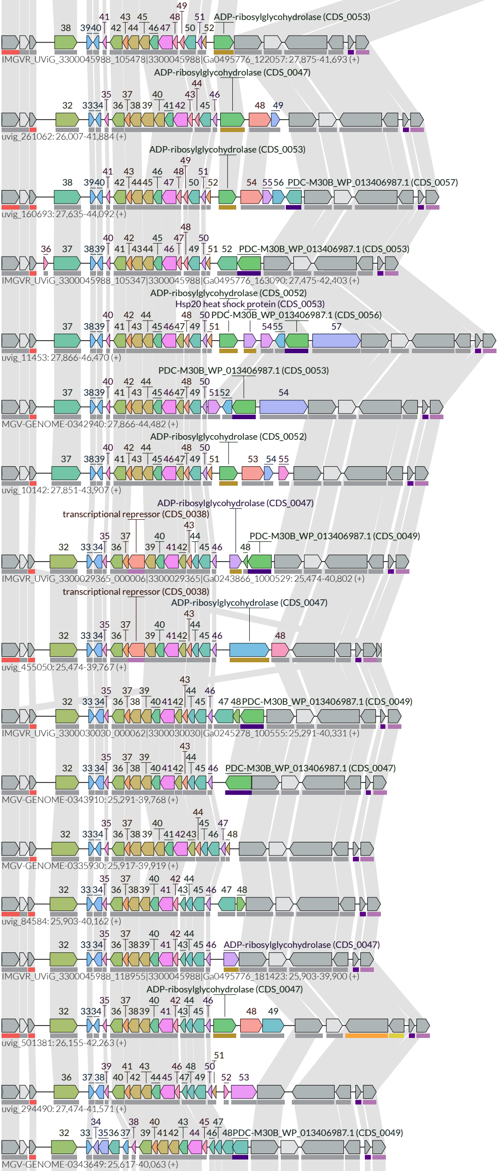

ADP-ribosylglycohydrolase (CDS_0047)
transcriptional regulator (CDS_0051)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 52
uvig_413147: 25,911-38,909 (+)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
IMGVR_UViG_3300045988_045277|3300045988|Ga0495776_111512: 27,927-40,314 (+)
ADP-ribosylglycohydrolase (CDS_0047)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 48
uvig_153907: 25,476-38,327 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
IMGVR_UViG_3300045988_107789|3300045988|Ga0495776_177053: 25,494-37,008 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
IMGVR_UViG_3300045988_080035|3300045988|Ga0495776_163222: 25,494-37,201 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
IMGVR_UViG_3300045988_072666|3300045988|Ga0495776_187386: 25,480-37,212 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
IMGVR_UViG_3300045988_090519|3300045988|Ga0495776_054610: 25,926-38,182 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
ADP-ribosylglycohydrolase (CDS_0047)
IMGVR_UViG_3300045988_098300|3300045988|Ga0495776_174556: 25,916-39,282 (+)
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
IMGVR_UViG_3300045988_069288|3300045988|Ga0495776_130515: 22,540-33,929 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
uvig_596863: 25,800-37,556 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
uvig_571846: 25,494-40,645 (+)
38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57
IMGVR_UViG_3300045988_118170|3300045988|Ga0495776_033027: 27,926-43,947 (+)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55
uvig_137797: 27,926-42,935 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
uvig_557297: 25,918-42,941 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
uvig_549476: 25,918-42,941 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0053)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 54 55
MGV-GENOME-0337779: 27,924-41,351 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45
MGV-GENOME-0335340: 25,911-37,033 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44
IMGVR_UViG_3300045988_074529|3300045988|Ga0495776_176982: 25,930-36,608 (+)

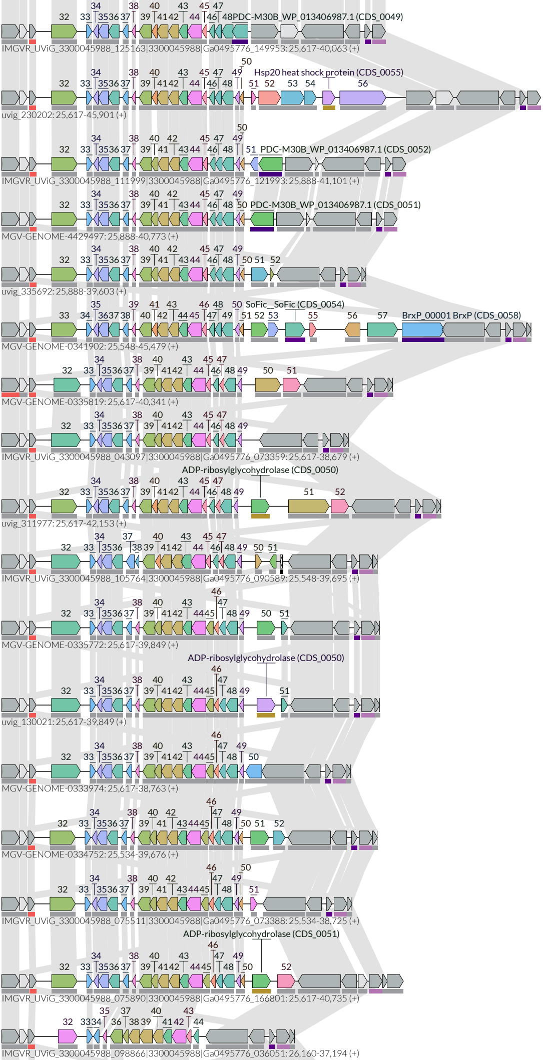

zinc containing alcohol dehydrogenase superfamily (CDS_0046)
gamma-glutamyl cyclotransferase (CDS_0045)
32 33 34 35 36 37 38 39 40 41 42 43 44 47 48
uvig_141010: 25,930-39,378 (+)
PDC-M42B_WP_087252525.1 (CDS_0048)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 49
MGV-GENOME-0336738: 25,926-40,281 (+)
PDC-M42B_WP_087252525.1 (CDS_0047)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 48
MGV-GENOME-0335797: 25,926-39,605 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53
uvig_247923: 25,618-44,677 (+)
ADP-ribosylglycohydrolase (CDS_0047)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 48 49 50 51
uvig_388: 25,916-40,610 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
MGV-GENOME-0335989: 25,916-39,588 (+)
NimIJ-NCBIFAM NimIJ family nitroimidazole resistance protein (NF000262.1) (CDS_0053)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 54 55 56
MGV-GENOME-0338999: 27,828-43,085 (+)
NimIJ-NCBIFAM NimIJ family nitroimidazole resistance protein (NF000262.1) (CDS_0055)
ADP-ribosylglycohydrolase (CDS_0053)
38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 54 56
uvig_570824: 27,828-43,969 (+)
ADP-ribosylglycohydrolase (CDS_0051)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 52 53 54
uvig_419399: 27,670-42,779 (+)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
MGV-GENOME-0340455: 27,670-41,518 (+)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
IMGVR_UViG_3300045988_119506|3300045988|Ga0495776_188079: 27,670-41,060 (+)
tail length tape measure protein (CDS_0017)
18 19 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38
MGV-GENOME-0305397: 11,373-26,640 (+)
COG2378 CAS-I,CAS-II,CAS-III,CAS-IV,CAS-V,CAS-VI; (CDS_0048)
PDC-M09B_WP_094489841.1 (CDS_0049)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 50 51 52 53
IMGVR_UViG_3300045988_097233|3300045988|Ga0495776_033079: 25,911-43,223 (+)

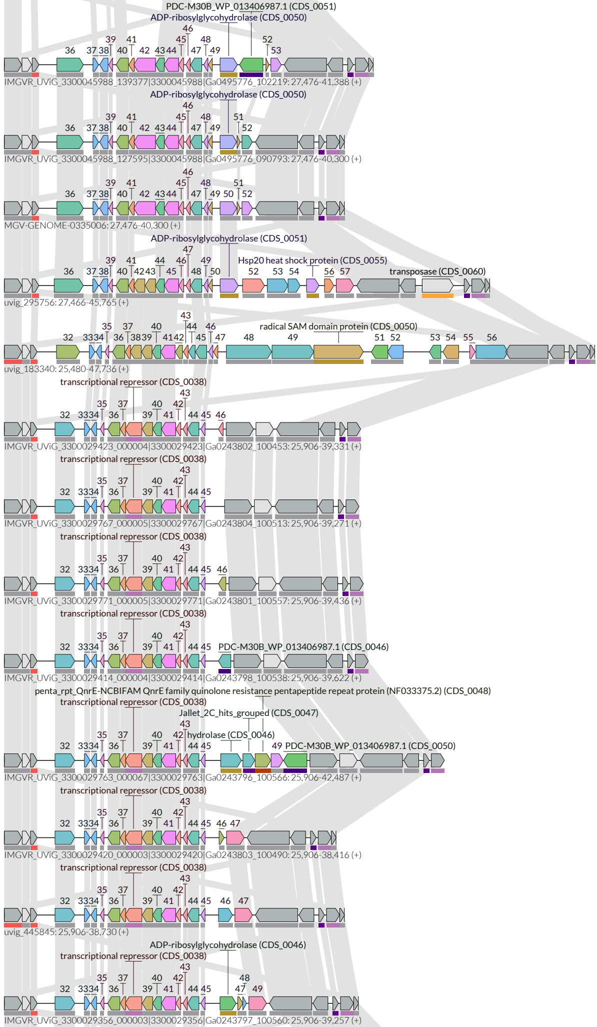

ADP-ribosylglycohydrolase (CDS_0052)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 53 54 55 56
uvig_544458: 27,851-43,033 (+)
ADP-ribosylglycohydrolase (CDS_0052)
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 53
uvig_554657: 28,781-41,444 (+)
ADP-ribosylglycohydrolase (CDS_0047)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 48 49 50 51 52
uvig_268761: 25,398-44,543 (+)
tail protein (CDS_0054)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 55 56 57
uvig_230543: 25,927-48,810 (+)
tail protein (CDS_0051)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 52 53 54
IMGVR_UViG_3300029492_000075|3300029492|Ga0244090_100323: 25,927-46,257 (+)
ParB-like partition protein (CDS_0053)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 54 55
IMGVR_UViG_3300029341_000154|3300029341|Ga0243736_1000387: 25,992-43,588 (+)
ParB-like partition protein (CDS_0053)
transposase (CDS_0054)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 55
IMGVR_UViG_3300029789_000110|3300029789|Ga0243734_1000269: 25,992-44,816 (+)
PDC-M68A_WP_181373464.1 (CDS_0053)
DS-30__DS-30C (CDS_0054)
DS-30__DS-30D (CDS_0055)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
IMGVR_UViG_3300045988_132893|3300045988|Ga0495776_032989: 26,007-43,061 (+)
PDC-M30B_WP_013406987.1 (CDS_0048)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 50
IMGVR_UViG_3300029391_000359|3300029391|Ga0243992_100337|14893-77775: 25,231-40,168 (+)
ADP-ribosylglycohydrolase (CDS_0047)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
IMGVR_UViG_3300029418_000004|3300029418|Ga0243993_100390: 25,234-39,448 (+)
ADP-ribosylglycohydrolase (CDS_0047)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 48 49
uvig_489425: 26,026-41,541 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49
IMGVR_UViG_3300045988_111803|3300045988|Ga0495776_090457: 25,926-39,498 (+)
ADP-ribosylglycohydrolase (CDS_0047)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
uvig_406272: 25,926-40,114 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49
MGV-GENOME-0337929: 25,473-37,789 (+)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
IMGVR_UViG_3300045988_106115|3300045988|Ga0495776_174301: 25,926-37,481 (+)

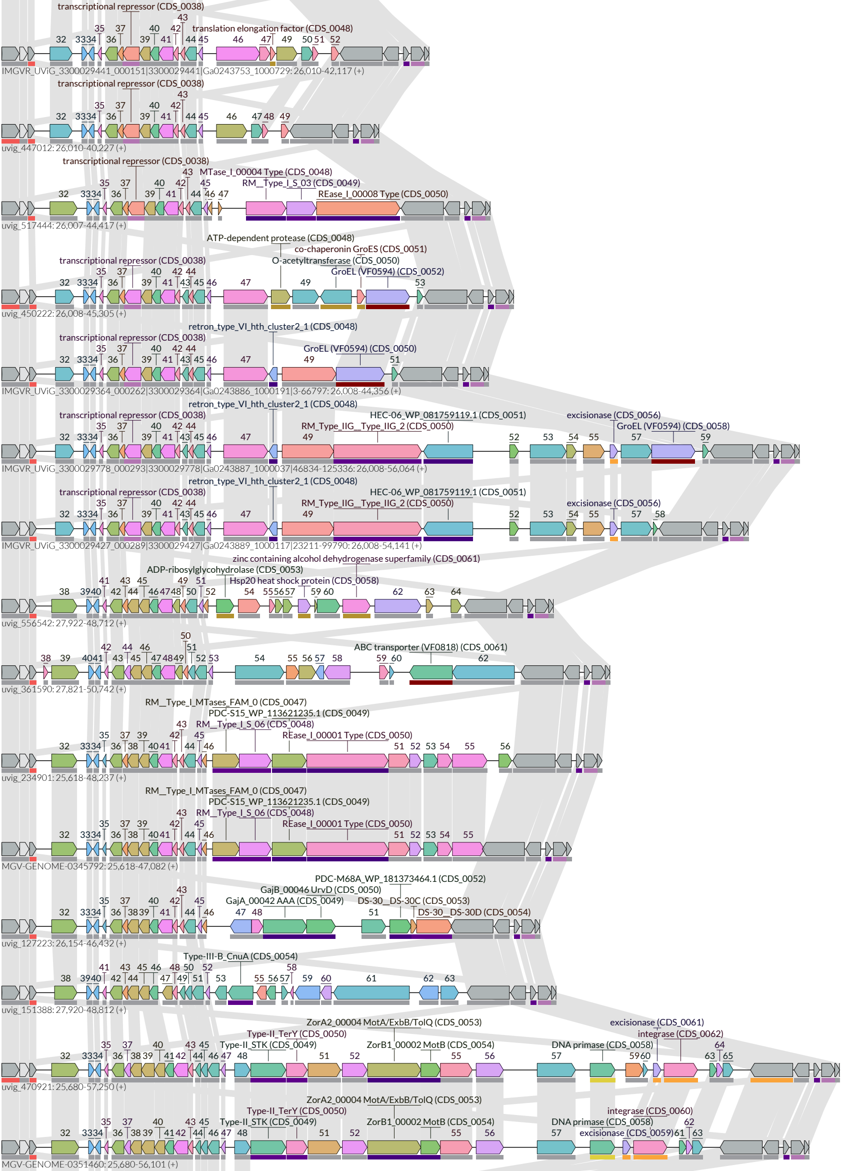

35 38 40 45
32 33 34 36 37 39 41 42 43 44 46
uvig_254233: 25,926-37,870 (+)
ADP-ribosylglycohydrolase (CDS_0049)
35 38 41 43 45 47
32 33 34 36 37 39 40 42 44 46 48 50 51 52 53
uvig_411305: 25,878-41,120 (+)
43 PDC-S27_WP_184132443.1 (CDS_0050)
35 37 40 44 46 integrase (CDS_0048)
32 33 34 36 38 39 41 42 45 47 49 MTase_I_00004 Type (CDS_0051)
uvig_444348_: 25,234-42,972 (+)
ADP-ribosylglycohydrolase (CDS_0047)
43
35 37 40 44 PDC-S27_WP_184132443.1 (CDS_0049)
32 33 34 36 38 39 41 42 45 46 48 MTase_I_00004 Type (CDS_0050)
IMGVR_UViG_3300029390_000004|3300029390|Ga0243991_1000228: 25,234-41,601 (+)
ADP-ribosylglycohydrolase (CDS_0047)
43
35 37 40 44 PDC-S27_WP_184132443.1 (CDS_0050)
32 33 34 36 38 39 41 42 45 46 48 49 MTase_I_00004 Type (CDS_0051)
IMGVR_UViG_3300029387_000005|3300029387|Ga0243994_100335: 25,234-42,535 (+)
43
35 37 40 44
32 33 34 36 38 39 41 42 45 46 47
IMGVR_UViG_3300029392_000310|3300029392|Ga0243989_1000269|17106-77099: 25,234-37,470 (+)
40 42 44
37 38 39 41 43 45 46 47
MGV-GENOME-0332738: 27,865-38,671 (+)
39 41 44
36 37 38 40 42 43 45
IMGVR_UViG_3300045988_102958|3300045988|Ga0495776_091032: 27,475-37,434 (+)
35 37 40
32 33 34 36 38 39 41
IMGVR_UViG_3300029996_000054|3300029996|Ga0245029_100448: 25,917-35,765 (+)
40 42 45
37 38 39 41 43 44
IMGVR_UViG_3300045988_064384|3300045988|Ga0495776_091175: 27,868-37,078 (+)
40 42
37 38 39 41 43 44 45
uvig_485622: 27,926-37,757 (+)
41 43
38 39 40 42 44 45
uvig_91677: 27,865-36,996 (+)
40 42 46
37 38 39 41 43 44 45 47
IMGVR_UViG_3300045988_062135|3300045988|Ga0495776_073348: 27,884-38,217 (+)
35 37
32 33 34 36 38 39
MGV-GENOME-0327882: 25,234-35,232 (+)
32 33 34 35 36
IMGVR_UViG_3300045988_122688|3300045988|Ga0495776_141862: 25,234-33,897 (+)
35 37
32 33 34 36 38
IMGVR_UViG_3300045988_112379|3300045988|Ga0495776_026798: 25,911-34,601 (+)
32 33 34 35 36
MGV-GENOME-0324317: 25,912-34,181 (+)
40 42 44 47 49 51
37 38 39 41 43 45 46 48 50 52 53 54 55 56 57 58 59 60 61
uvig_438987: 27,905-49,470 (+)
35 37 39 42 44 MATE_multi_MepA-NCBIFAM multidrug efflux MATE transporter MepA (NF000131.1) (CDS_0052)
32 33 34 36 38 40 41 43 45 46 47 48 49 50 51 53 54 55 56
uvig_84191: 25,912-50,438 (+)
ADP-ribosylglycohydrolase (CDS_0048)
35 37 39 42 44 46
32 33 34 36 38 40 41 43 45 47 49 50
IMGVR_UViG_3300045988_126735|3300045988|Ga0495776_163365: 25,617-39,526 (+)


35 37 39 42 44 46
32 3334 36 38 4041 43 45 47 48 49 50
MGV-GENOME-0341606: 25,617-39,526 (+)
ADP-ribosylglycohydrolase (CDS_0048)
DNA polymerase (CDS_0049)
35 37 39 42 44 46 55
32 3334 36 38 4041 43 45 47 50 51 52 53 54
uvig_135214: 25,617-43,890 (+)
ADP-ribosylglycohydrolase (CDS_0047)
43
35 37 39 42 45
32 3334 36 38 4041 44 46 48 PDC-M30B_WP_013406987.1 (CDS_0049)
IMGVR_UViG_2854081209_000001|2854081209|2854081209|467389-532186: 25,915-41,159 (+)
ADP-ribosylglycohydrolase (CDS_0047)
43
35 37 39 42 45
32 3334 36 38 4041 44 46 48
ivig_43: 25,915-38,856 (+)
44
33 35 38 41 43 46
32 34 36 37 3940 42 45 47 PDC-M30B_WP_013406987.1 (CDS_0048)
IMGVR_UViG_3300045988_109830|3300045988|Ga0495776_188031: 25,824-40,494 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0049)
44 46
35 37 40 43 47
32 3334 36 38 39 4142 45 48 50 PDC-M30B_WP_013406987.1 (CDS_0051)
uvig_401581: 26,157-41,393 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0049)
PDC-M30B_WP_013406987.1 (CDS_0052)
Jallet_2C_hits_grouped (CDS_0048)
35 37 40 42 44 51
32 3334 36 3839 41 43 45 46 47 50 54
MGV-GENOME-0339927: 25,914-41,932 (+)
ADP-ribosylglycohydrolase (CDS_0047)
35 37 40 42 44
32 3334 36 3839 41 43 45 46 48 49 50
IMGVR_UViG_3300029121_000057|3300029121|Ga0168811_100265: 25,911-41,714 (+)
40 42 44 47 49
37 3839 41 43 4546 48 50 51 52
IMGVR_UViG_3300045988_067706|3300045988|Ga0495776_121954: 27,872-41,479 (+)
40 42 44 47 49 51 ADP-ribosylglycohydrolase (CDS_0053)
37 3839 41 43 4546 48 50 52
IMGVR_UViG_3300045988_084102|3300045988|Ga0495776_150378: 27,869-41,610 (+)
37 39 42 44 46 48
34 3536 38 4041 43 45 47 49
MGV-GENOME-0333196: 25,271-38,638 (+)
46
35 37 40 42 44 47
32 3334 36 3839 41 43 45 48 PDC-M30B_WP_013406987.1 (CDS_0049)
MGV-GENOME-0336197: 26,152-40,161 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0047)
35 37 40 42 44 46
32 3334 36 3839 41 43 45 48 PDC-M30B_WP_013406987.1 (CDS_0049)
IMGVR_UViG_3300045988_071504|3300045988|Ga0495776_181357: 25,239-39,600 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0047)
35 37 40 42 44 46
32 3334 36 3839 41 43 45 48 PDC-M30B_WP_013406987.1 (CDS_0049)
MGV-GENOME-0337394: 25,239-39,600 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0055)
PDC-M30B_WP_013406987.1 (CDS_0058)
ADP-ribosylglycohydrolase (CDS_0050)
Hsp20 heat shock protein (CDS_0054)
37 39 42 44 46 48
34 3536 38 4041 43 45 47 49 51 5253 56 57 59
uvig_465941: 25,271-46,543 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0050)
PDC-M30B_WP_013406987.1 (CDS_0053)
37 39 42 44 46 48
34 3536 38 4041 43 45 47 49 51 52 54
IMGVR_UViG_3300045988_108362|3300045988|Ga0495776_187311: 25,271-43,487 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0056)
ADP-ribosylglycohydrolase (CDS_0048) hydrolase (CDS_0055)
capH (CDS_0053)
35 37 40 42 44 46
32 3334 36 3839 41 43 45 47 49 50 5152 54 57 PDC-M30B_WP_013406987.1 (CDS_0058)
uvig_324778: 25,239-45,923 (+)

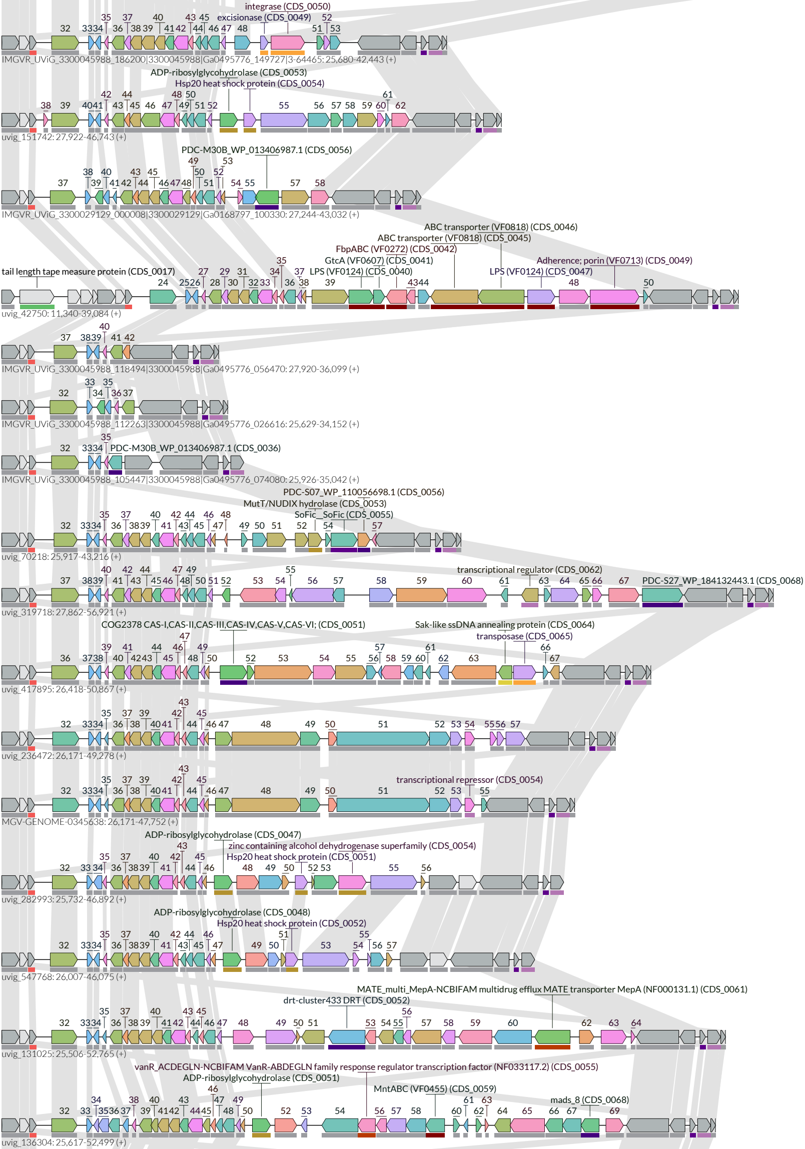

ADP-ribosylglycohydrolase (CDS_0053)
IMGVR_UViG_3300045988_105478|3300045988|Ga0495776_122057: 27,875-41,693 (+)
ADP-ribosylglycohydrolase (CDS_0047)
uvig_261062: 26,007-41,884 (+)
ADP-ribosylglycohydrolase (CDS_0053)
PDC-M30B_WP_013406987.1 (CDS_0057)
uvig_160693: 27,635-44,092 (+)
PDC-M30B_WP_013406987.1 (CDS_0053)
IMGVR_UViG_3300045988_105347|3300045988|Ga0495776_163090: 27,475-42,403 (+)
ADP-ribosylglycohydrolase (CDS_0052)
Hsp20 heat shock protein (CDS_0053)
PDC-M30B_WP_013406987.1 (CDS_0056)
uvig_11453: 27,866-46,470 (+)
PDC-M30B_WP_013406987.1 (CDS_0053)
MGV-GENOME-0342940: 27,866-44,482 (+)
ADP-ribosylglycohydrolase (CDS_0052)
uvig_10142: 27,851-43,907 (+)
ADP-ribosylglycohydrolase (CDS_0047)
transcriptional repressor (CDS_0038)
PDC-M30B_WP_013406987.1 (CDS_0049)
IMGVR_UViG_3300029365_000006|3300029365|Ga0243866_1000529: 25,474-40,802 (+)
transcriptional repressor (CDS_0038)
ADP-ribosylglycohydrolase (CDS_0047)
uvig_455050: 25,474-39,767 (+)
PDC-M30B_WP_013406987.1 (CDS_0049)
IMGVR_UViG_3300030030_000062|3300030030|Ga0245278_100555: 25,291-40,331 (+)
PDC-M30B_WP_013406987.1 (CDS_0047)
MGV-GENOME-0343910: 25,291-39,768 (+)
MGV-GENOME-0335930: 25,917-39,919 (+)
uvig_84584: 25,903-40,162 (+)
ADP-ribosylglycohydrolase (CDS_0047)
IMGVR_UViG_3300045988_118955|3300045988|Ga0495776_181423: 25,903-39,900 (+)
ADP-ribosylglycohydrolase (CDS_0047)
uvig_501381: 26,155-42,263 (+)
uvig_294490: 27,474-41,571 (+)
PDC-M30B_WP_013406987.1 (CDS_0049)
MGV-GENOME-0343649: 25,617-40,063 (+)

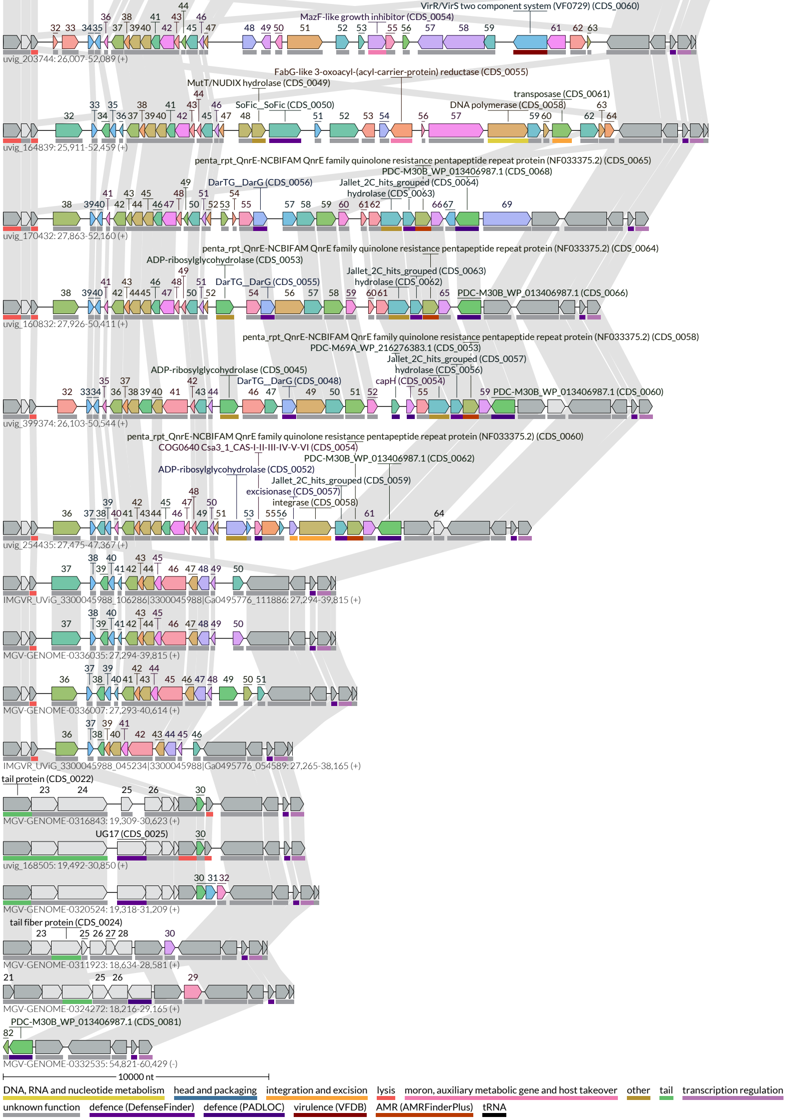

PDC-M30B_WP_013406987.1 (CDS_0049)
IMGVR_UViG_3300045988_125163|3300045988|Ga0495776_149953: 25,617-40,063 (+)
Hsp20 heat shock protein (CDS_0055)
uvig_230202: 25,617-45,901 (+)
PDC-M30B_WP_013406987.1 (CDS_0052)
IMGVR_UViG_3300045988_111999|3300045988|Ga0495776_121993: 25,888-41,101 (+)
PDC-M30B_WP_013406987.1 (CDS_0051)
MGV-GENOME-4429497: 25,888-40,773 (+)
uvig_335692: 25,888-39,603 (+)
SoFic__SoFic (CDS_0054)
BrxP_00001 BrxP (CDS_0058)
MGV-GENOME-0341902: 25,548-45,479 (+)
MGV-GENOME-0335819: 25,617-40,341 (+)
IMGVR_UViG_3300045988_043097|3300045988|Ga0495776_073359: 25,617-38,679 (+)
ADP-ribosylglycohydrolase (CDS_0050)
uvig_311977: 25,617-42,153 (+)
IMGVR_UViG_3300045988_105764|3300045988|Ga0495776_090589: 25,548-39,695 (+)
MGV-GENOME-0335772: 25,617-39,849 (+)
ADP-ribosylglycohydrolase (CDS_0050)
uvig_130021: 25,617-39,849 (+)
MGV-GENOME-0333974: 25,617-38,763 (+)
MGV-GENOME-0334752: 25,534-39,676 (+)
IMGVR_UViG_3300045988_075511|3300045988|Ga0495776_073388: 25,534-38,725 (+)
ADP-ribosylglycohydrolase (CDS_0051)
IMGVR_UViG_3300045988_075890|3300045988|Ga0495776_166801: 25,617-40,735 (+)
IMGVR_UViG_3300045988_098866|3300045988|Ga0495776_036051: 26,160-37,194 (+)


PDC-M30B_WP_013406987.1 (CDS_0051)
ADP-ribosylglycohydrolase (CDS_0050)
IMGVR_UViG_3300045988_139377|3300045988|Ga0495776_102219: 27,476-41,388 (+)
ADP-ribosylglycohydrolase (CDS_0050)
IMGVR_UViG_3300045988_127595|3300045988|Ga0495776_090793: 27,476-40,300 (+)
MGV-GENOME-0335006: 27,476-40,300 (+)
ADP-ribosylglycohydrolase (CDS_0051)
Hsp20 heat shock protein (CDS_0055)
transposase (CDS_0060)
uvig_295756: 27,466-45,765 (+)
radical SAM domain protein (CDS_0050)
uvig_183340: 25,480-47,736 (+)
transcriptional repressor (CDS_0038)
IMGVR_UViG_3300029423_000004|3300029423|Ga0243802_100453: 25,906-39,331 (+)
transcriptional repressor (CDS_0038)
IMGVR_UViG_3300029767_000005|3300029767|Ga0243804_100513: 25,906-39,271 (+)
transcriptional repressor (CDS_0038)
IMGVR_UViG_3300029771_000005|3300029771|Ga0243801_100557: 25,906-39,436 (+)
transcriptional repressor (CDS_0038)
PDC-M30B_WP_013406987.1 (CDS_0046)
IMGVR_UViG_3300029414_000004|3300029414|Ga0243798_100538: 25,906-39,622 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0048)
transcriptional repressor (CDS_0038)
Jallet_2C_hits_grouped (CDS_0047)
hydrolase (CDS_0046)
PDC-M30B_WP_013406987.1 (CDS_0050)
IMGVR_UViG_3300029763_000067|3300029763|Ga0243796_100566: 25,906-42,487 (+)
transcriptional repressor (CDS_0038)
IMGVR_UViG_3300029420_000003|3300029420|Ga0243803_100490: 25,906-38,416 (+)
transcriptional repressor (CDS_0038)
uvig_445845: 25,906-38,730 (+)
ADP-ribosylglycohydrolase (CDS_0046)
transcriptional repressor (CDS_0038)
IMGVR_UViG_3300029356_000003|3300029356|Ga0243797_100560: 25,906-39,257 (+)



transcriptional repressor (CDS_0038)
translation elongation factor (CDS_0048)
32 33 34 35 36 37 39 40 41 42 43 44 45 46 47 49 50 51 52
IMGVR_UViG_3300029441_000151|3300029441|Ga0243753_1000729: 26,010-42,117 (+)
transcriptional repressor (CDS_0038)
32 33 34 35 36 37 39 40 41 42 43 44 45 46 47 48 49
uvig_447012: 26,010-40,227 (+)
transcriptional repressor (CDS_0038)
MTase_I_00004 Type (CDS_0048)
RM__Type_I_S_03 (CDS_0049)
REase_I_00008 Type (CDS_0050)
32 33 34 35 36 37 39 40 41 42 43 44 45 46 47
uvig_517444: 26,007-44,417 (+)
ATP-dependent protease (CDS_0048)
co-chaperonin GroES (CDS_0051)
transcriptional repressor (CDS_0038)
O-acetyltransferase (CDS_0050)
GroEL (VF0594) (CDS_0052)
32 33 34 35 36 37 39 40 41 42 43 44 45 46 47 49 53
uvig_450222: 26,008-45,305 (+)
retron_type_VI_hth_cluster2_1 (CDS_0048)
transcriptional repressor (CDS_0038)
GroEL (VF0594) (CDS_0050)
32 33 34 35 36 37 39 40 41 42 43 44 45 46 47 49 51
IMGVR_UViG_3300029364_000262|3300029364|Ga0243886_1000191|3-66797: 26,008-44,356 (+)
retron_type_VI_hth_cluster2_1 (CDS_0048)
transcriptional repressor (CDS_0038)
HEC-06_WP_081759119.1 (CDS_0051)
excisionase (CDS_0056)
RM_Type_IIG__Type_IIG_2 (CDS_0050)
GroEL (VF0594) (CDS_0058)
32 33 34 35 36 37 39 40 41 42 43 44 45 46 47 49 52 53 54 55 57 59
IMGVR_UViG_3300029778_000293|3300029778|Ga0243887_1000037|46834-125336: 26,008-56,064 (+)
retron_type_VI_hth_cluster2_1 (CDS_0048)
transcriptional repressor (CDS_0038)
HEC-06_WP_081759119.1 (CDS_0051)
RM_Type_IIG__Type_IIG_2 (CDS_0050)
excisionase (CDS_0056)
32 33 34 35 36 37 39 40 41 42 43 44 45 46 47 49 52 53 54 55 57 58
IMGVR_UViG_3300029427_000289|3300029427|Ga0243889_1000117|23211-99790: 26,008-54,141 (+)
zinc containing alcohol dehydrogenase superfamily (CDS_0061)
ADP-ribosylglycohydrolase (CDS_0053)
Hsp20 heat shock protein (CDS_0058)
38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 54 55 56 57 59 60 62 63 64
uvig_556542: 27,922-48,712 (+)
50
ABC transporter (VF0818) (CDS_0061)
38 39 40 41 42 43 44 45 46 47 48 49 51 52 53 54 55 56 57 58 59 60 62
uvig_361590: 27,821-50,742 (+)
RM__Type_I_MTases_FAM_0 (CDS_0047)
PDC-S15_WP_113621235.1 (CDS_0049)
RM__Type_I_S_06 (CDS_0048)
REase_I_00001 Type (CDS_0050)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 51 52 53 54 55 56
uvig_234901: 25,618-48,237 (+)
RM__Type_I_MTases_FAM_0 (CDS_0047)
PDC-S15_WP_113621235.1 (CDS_0049)
RM__Type_I_S_06 (CDS_0048)
REase_I_00001 Type (CDS_0050)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 51 52 53 54 55
MGV-GENOME-0345792: 25,618-47,082 (+)
PDC-M68A_WP_181373464.1 (CDS_0052)
GajB_00046 UrvD (CDS_0050)
GajA_00042 AAA (CDS_0049)
DS-30__DS-30C (CDS_0053)
DS-30__DS-30D (CDS_0054)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 51
uvig_127223: 26,154-46,432 (+)
Type-III-B_CnuA (CDS_0054)
38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 55 56 57 58 59 60 61 62 63
uvig_151388: 27,920-48,812 (+)
ZorA2_00004 MotA/ExbB/TolQ (CDS_0053)
excisionase (CDS_0061)
Type-II_TerY (CDS_0050)
integrase (CDS_0062)
Type-II_STK (CDS_0049)
ZorB1_00002 MotB (CDS_0054)
DNA primase (CDS_0058)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 51 52 55 56 57 59 60 63 64 65
uvig_470921: 25,680-57,250 (+)
ZorA2_00004 MotA/ExbB/TolQ (CDS_0053)
Type-II_TerY (CDS_0050)
integrase (CDS_0060)
Type-II_STK (CDS_0049)
ZorB1_00002 MotB (CDS_0054)
DNA primase (CDS_0058)
excisionase (CDS_0059)
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 51 52 55 56 57 61 62 63
MGV-GENOME-0351460: 25,680-56,101 (+)


integrase (CDS_0050)
excisionase (CDS_0049)
IMGVR_UViG_3300045988_186200|3300045988|Ga0495776_149727|3-64465: 25,680-42,443 (+)
ADP-ribosylglycohydrolase (CDS_0053)
Hsp20 heat shock protein (CDS_0054)
uvig_151742: 27,922-46,743 (+)
PDC-M30B_WP_013406987.1 (CDS_0056)
IMGVR_UViG_3300029129_000008|3300029129|Ga0168797_100330: 27,244-43,032 (+)
ABC transporter (VF0818) (CDS_0046)
ABC transporter (VF0818) (CDS_0045)
FbpABC (VF0272) (CDS_0042)
GtcA (VF0607) (CDS_0041)
LPS (VF0124) (CDS_0040)
Adherence; porin (VF0713) (CDS_0049)
LPS (VF0124) (CDS_0047)
tail length tape measure protein (CDS_0017)
uvig_42750: 11,340-39,084 (+)
IMGVR_UViG_3300045988_118494|3300045988|Ga0495776_056470: 27,920-36,099 (+)
IMGVR_UViG_3300045988_112263|3300045988|Ga0495776_026616: 25,629-34,152 (+)
PDC-M30B_WP_013406987.1 (CDS_0036)
IMGVR_UViG_3300045988_105447|3300045988|Ga0495776_074080: 25,926-35,042 (+)
PDC-S07_WP_110056698.1 (CDS_0056)
MutT/NUDIX hydrolase (CDS_0053)
SoFic_SoFic (CDS_0055)
uvig_70218: 25,917-43,216 (+)
transcriptional regulator (CDS_0062)
PDC-S27_WP_184132443.1 (CDS_0068)
uvig_319718: 27,862-56,921 (+)
COG2378 CAS-I,CAS-II,CAS-III,CAS-IV,CAS-V,CAS-VI; (CDS_0051)
Sak-like ssDNA annealing protein (CDS_0064)
transposase (CDS_0065)
uvig_417895: 26,418-50,867 (+)
uvig_236472: 26,171-49,278 (+)
transcriptional repressor (CDS_0054)
MGV-GENOME-0345638: 26,171-47,752 (+)
ADP-ribosylglycohydrolase (CDS_0047)
zinc containing alcohol dehydrogenase superfamily (CDS_0054)
Hsp20 heat shock protein (CDS_0051)
uvig_282993: 25,732-46,892 (+)
ADP-ribosylglycohydrolase (CDS_0048)
Hsp20 heat shock protein (CDS_0052)
uvig_547768: 26,007-46,075 (+)
MATE_multi_MepA-NCBIFAM multidrug efflux MATE transporter MepA (NF000131.1) (CDS_0061)
drt-cluster433 DRT (CDS_0052)
uvig_131025: 25,506-52,765 (+)
vanR_ACDEGLN-NCBIFAM VanR-ABDEGLN family response regulator transcription factor (NF033117.2) (CDS_0055)
ADP-ribosylglycohydrolase (CDS_0051)
MntABC (VF0455) (CDS_0059)
mads_8 (CDS_0068)
uvig_136304: 25,617-52,499 (+)


VirR/VirS two component system (VF0729) (CDS_0060)
MazF-like growth inhibitor (CDS_0054)
uvig_203744: 26,007-52,089 (+)
FabG-like 3-oxoacyl-(acyl-carrier-protein) reductase (CDS_0055)
MutT/NUDIX hydrolase (CDS_0049)
transposase (CDS_0061)
SoFic__SoFic (CDS_0050)
DNA polymerase (CDS_0058)
uvig_164839: 25,911-52,459 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0065)
PDC-M30B_WP_013406987.1 (CDS_0068)
DarTG__DarG (CDS_0056)
Jallet_2C_hits_grouped (CDS_0064)
hydrolase (CDS_0063)
uvig_170432: 27,863-52,160 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0064)
ADP-ribosylglycohydrolase (CDS_0053)
Jallet_2C_hits_grouped (CDS_0063)
DarTG__DarG (CDS_0055)
hydrolase (CDS_0062)
PDC-M30B_WP_013406987.1 (CDS_0066)
uvig_160832: 27,926-50,411 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0058)
PDC-M69A_WP_216276383.1 (CDS_0053)
Jallet_2C_hits_grouped (CDS_0057)
ADP-ribosylglycohydrolase (CDS_0045)
hydrolase (CDS_0056)
DarTG__DarG (CDS_0048)
capH (CDS_0054)
PDC-M30B_WP_013406987.1 (CDS_0060)
uvig_399374: 26,103-50,544 (+)
penta_rpt_QnrE-NCBIFAM QnrE family quinolone resistance pentapeptide repeat protein (NF033375.2) (CDS_0060)
COG0640 Csa3_1_CAS-I-II-III-IV-V-VI (CDS_0054)
PDC-M30B_WP_013406987.1 (CDS_0062)
ADP-ribosylglycohydrolase (CDS_0052)
Jallet_2C_hits_grouped (CDS_0059)
excisionase (CDS_0057)
integrase (CDS_0058)
uvig_254435: 27,475-47,367 (+)
IMGVR_UViG_3300045988_106286|3300045988|Ga0495776_111886: 27,294-39,815 (+)
MGV-GENOME-0336035: 27,294-39,815 (+)
MGV-GENOME-0336007: 27,293-40,614 (+)
IMGVR_UViG_3300045988_045234|3300045988|Ga0495776_054589: 27,265-38,165 (+)
tail protein (CDS_0022)
MGV-GENOME-0316843: 19,309-30,623 (+)
UG17 (CDS_0025)
uvig_168505: 19,492-30,850 (+)
MGV-GENOME-0320524: 19,318-31,209 (+)
tail fiber protein (CDS_0024)
MGV-GENOME-0311923: 18,634-28,581 (+)
MGV-GENOME-0324272: 18,216-29,165 (+)
PDC-M30B_WP_013406987.1 (CDS_0081)
MGV-GENOME-0332535: 54,821-60,429 (-)
10000 nt
DNA, RNA and nucleotide metabolism
head and packaging
integration and excision
lysis
moron, auxiliary metabolic gene and host takeover
other
tail
transcription regulation
unknown function
defence (DefenseFinder)
defence (PADLOC)
virulence (VFDB)
AMR (AMRFinderPlus)
tRNA