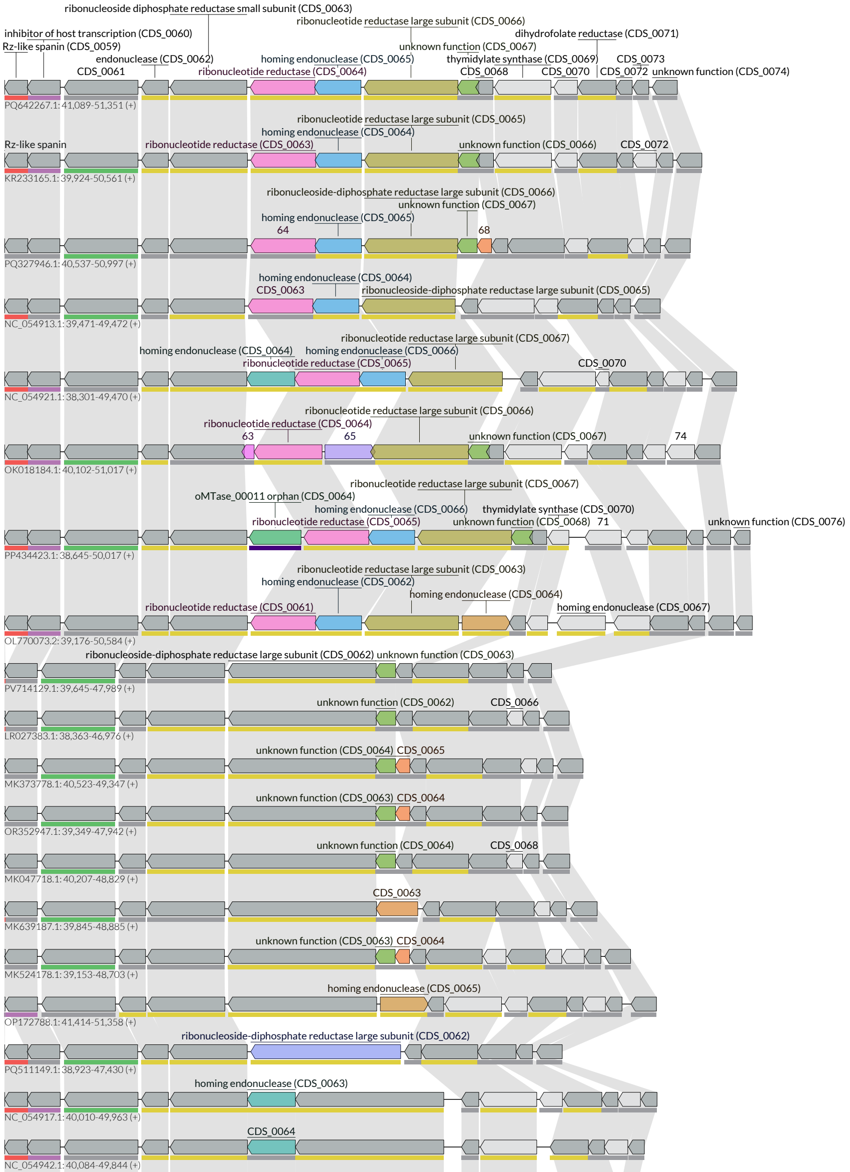
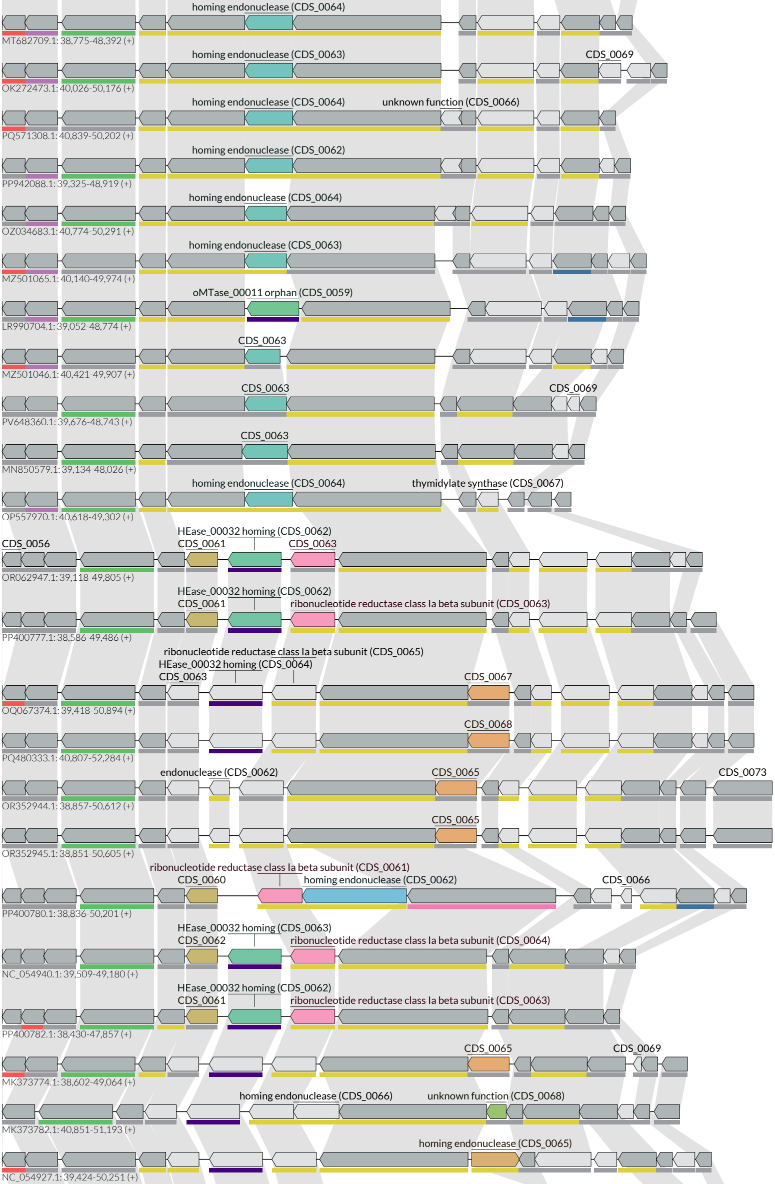
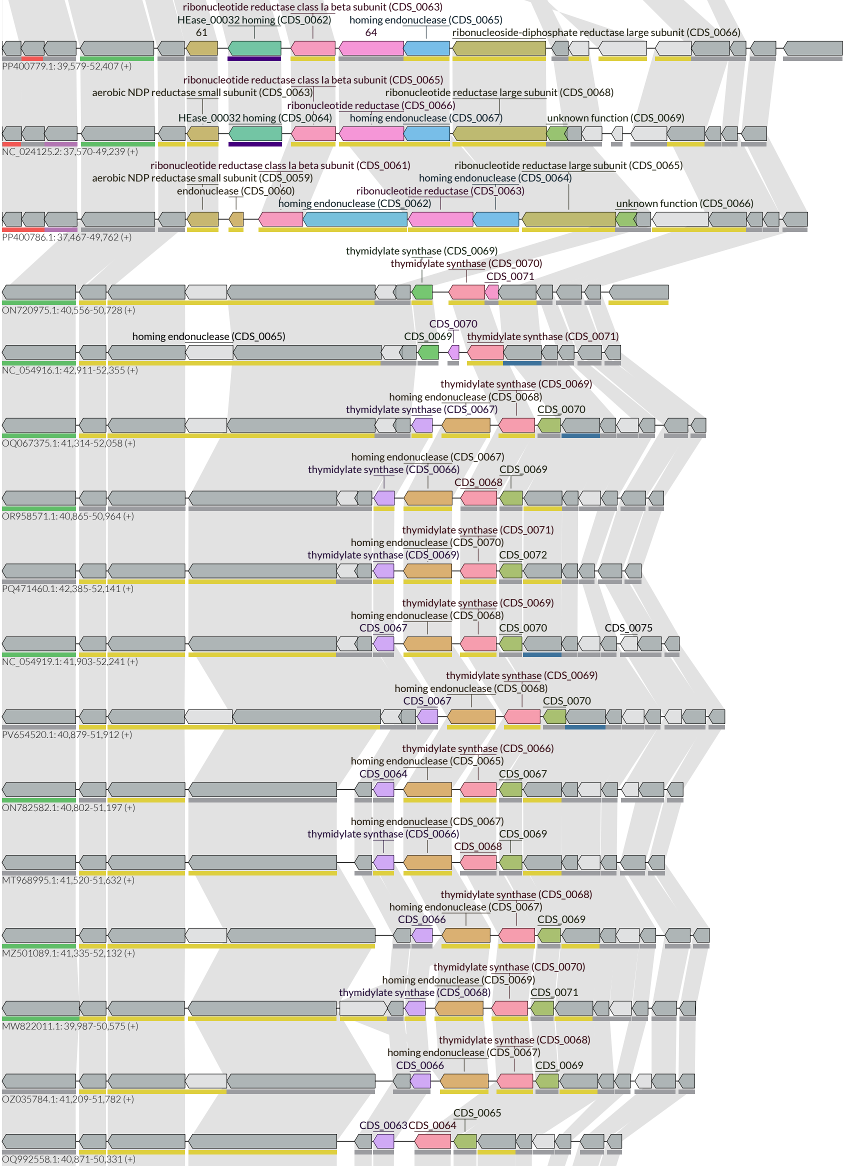
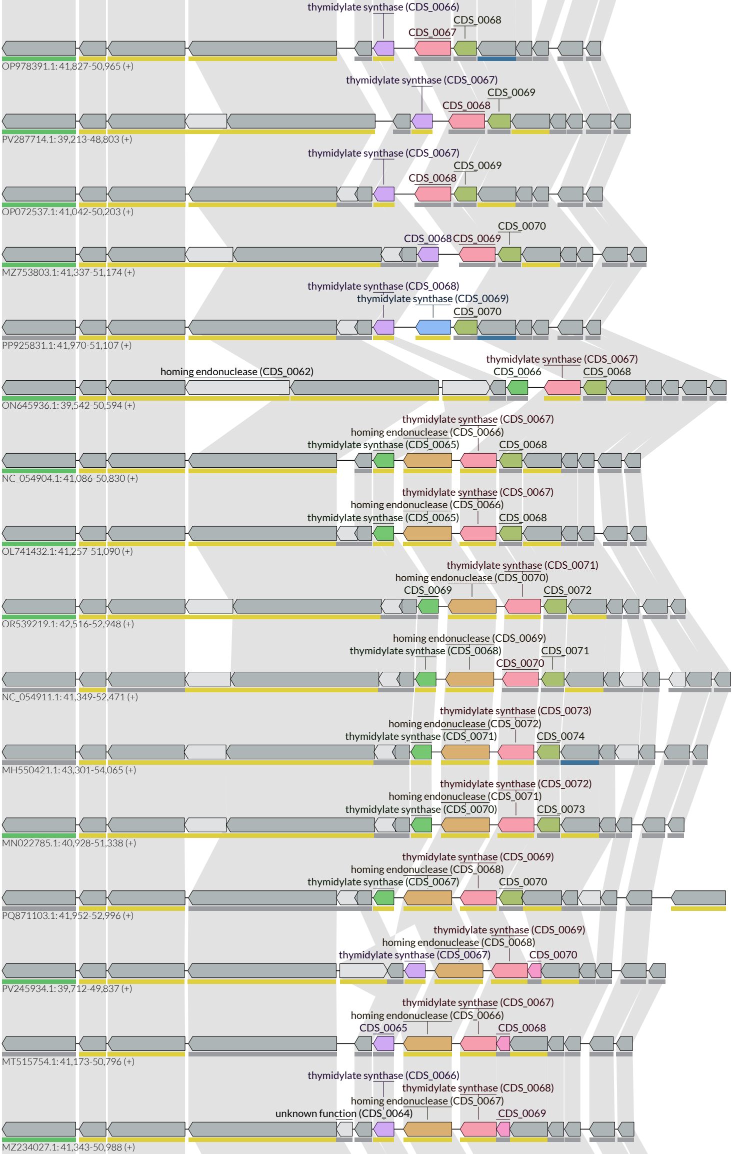
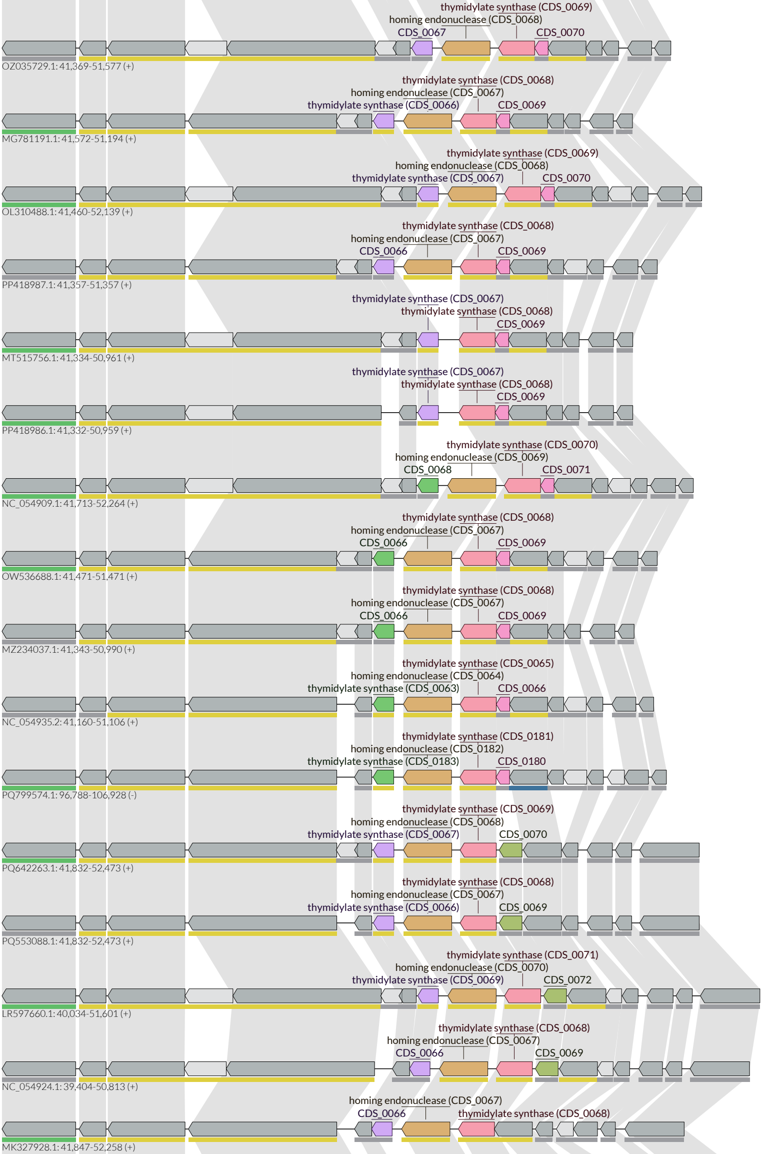
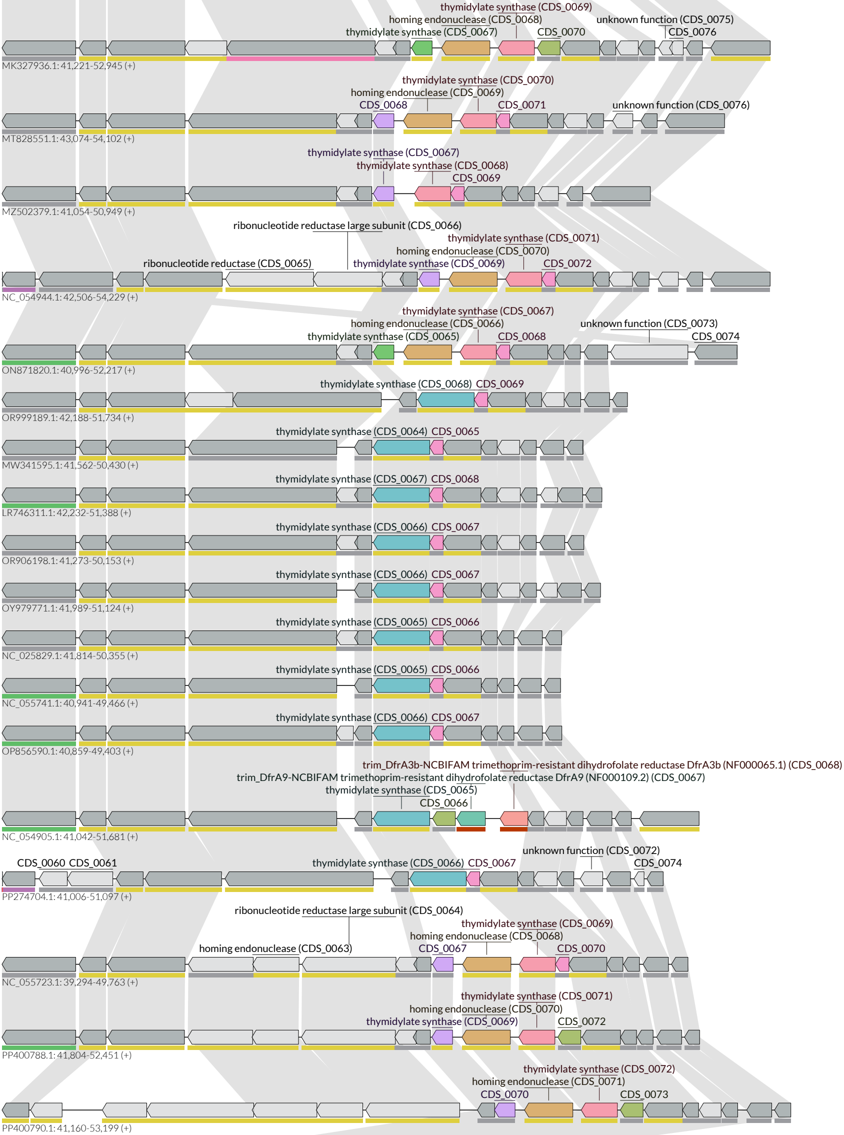

ribonucleoside diphosphate reductase small subunit (CDS_0063)
ribonucleotide reductase large subunit (CDS_0066)
inhibitor of host transcription (CDS_0060)
dihydrofolate reductase (CDS_0071)
Rz-like spanin (CDS_0059)
unknown function (CDS_0067)
endonuclease (CDS_0062)
homing endonuclease (CDS_0065)
thymidylate synthase (CDS_0069)
CDS_0073
CDS_0061
ribonucleotide reductase (CDS_0064)
CDS_0068
CDS_0070
CDS_0072
unknown function (CDS_0074)
PQ642267.1: 41,089-51,351 (+)
ribonucleotide reductase large subunit (CDS_0065)
homing endonuclease (CDS_0064)
Rz-like spanin
ribonucleotide reductase (CDS_0063)
unknown function (CDS_0066)
CDS_0072
KR233165.1: 39,924-50,561 (+)
ribonucleoside-diphosphate reductase large subunit (CDS_0066)
unknown function (CDS_0067)
homing endonuclease (CDS_0065)
64
68
PQ327946.1: 40,537-50,997 (+)
homing endonuclease (CDS_0064)
CDS_0063
ribonucleoside-diphosphate reductase large subunit (CDS_0065)
NC_054913.1: 39,471-49,472 (+)
ribonucleotide reductase large subunit (CDS_0067)
homing endonuclease (CDS_0064)
homing endonuclease (CDS_0066)
ribonucleotide reductase (CDS_0065)
CDS_0070
NC_054921.1: 38,301-49,470 (+)
ribonucleotide reductase large subunit (CDS_0066)
ribonucleotide reductase (CDS_0064)
63
65
unknown function (CDS_0067)
74
OK018184.1: 40,102-51,017 (+)
ribonucleotide reductase large subunit (CDS_0067)
oMTase_00011 orphan (CDS_0064)
homing endonuclease (CDS_0066)
thymidylate synthase (CDS_0070)
ribonucleotide reductase (CDS_0065)
unknown function (CDS_0068)
71
unknown function (CDS_0076)
PP434423.1: 38,645-50,017 (+)
ribonucleotide reductase large subunit (CDS_0063)
homing endonuclease (CDS_0062)
homing endonuclease (CDS_0064)
ribonucleotide reductase (CDS_0061)
homing endonuclease (CDS_0067)
OL770073.2: 39,176-50,584 (+)
ribonucleoside-diphosphate reductase large subunit (CDS_0062)
unknown function (CDS_0063)
PV714129.1: 39,645-47,989 (+)
unknown function (CDS_0062)
CDS_0066
LR027383.1: 38,363-46,976 (+)
unknown function (CDS_0064)
CDS_0065
MK373778.1: 40,523-49,347 (+)
unknown function (CDS_0063)
CDS_0064
OR352947.1: 39,349-47,942 (+)
unknown function (CDS_0064)
CDS_0068
MK047718.1: 40,207-48,829 (+)
CDS_0063
MK639187.1: 39,845-48,885 (+)
unknown function (CDS_0063)
CDS_0064
MK524178.1: 39,153-48,703 (+)
homing endonuclease (CDS_0065)
OP172788.1: 41,414-51,358 (+)
ribonucleoside-diphosphate reductase large subunit (CDS_0062)
PQ511149.1: 38,923-47,430 (+)
homing endonuclease (CDS_0063)
NC_054917.1: 40,010-49,963 (+)
CDS_0064
NC_054942.1: 40,084-49,844 (+)

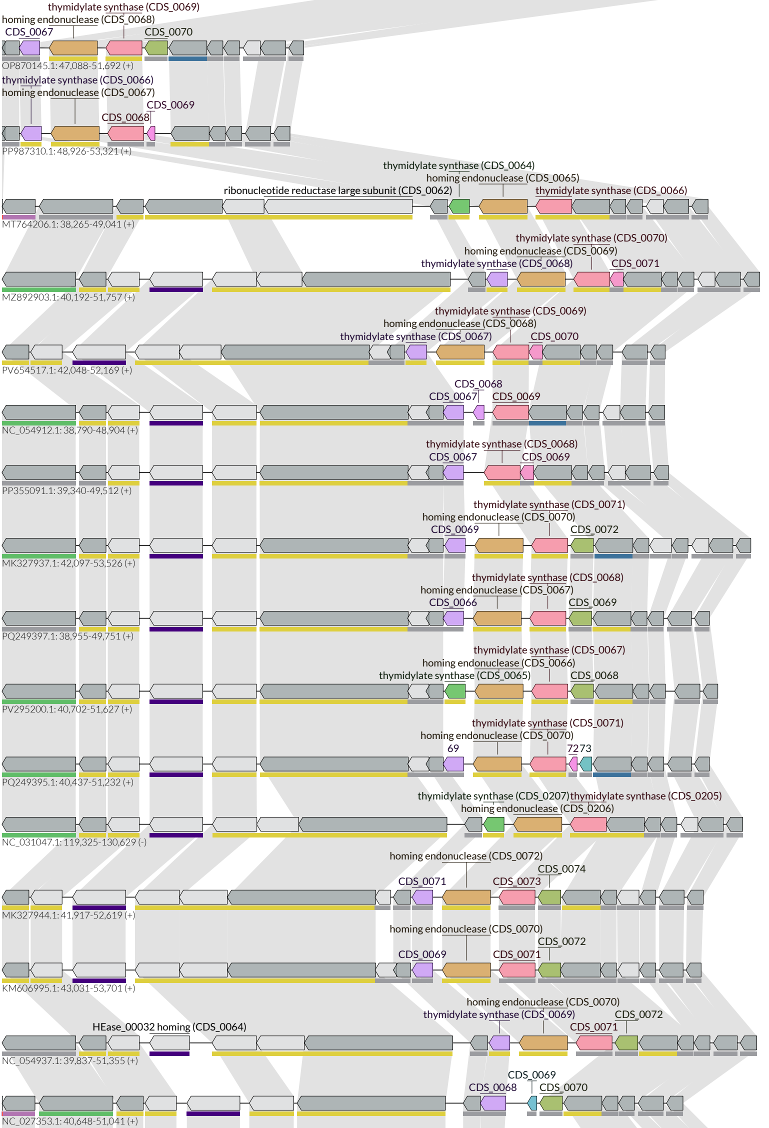

homing endonuclease (CDS_0064)
MT682709.1: 38,775-48,392 (+)
homing endonuclease (CDS_0063)
CDS_0069
OK272473.1: 40,026-50,176 (+)
homing endonuclease (CDS_0064)
unknown function (CDS_0066)
PQ571308.1: 40,839-50,202 (+)
homing endonuclease (CDS_0062)
PP942088.1: 39,325-48,919 (+)
homing endonuclease (CDS_0064)
OZ034683.1: 40,774-50,291 (+)
homing endonuclease (CDS_0063)
MZ501065.1: 40,140-49,974 (+)
oMTase_00011 orphan (CDS_0059)
LR990704.1: 39,052-48,774 (+)
CDS_0063
MZ501046.1: 40,421-49,907 (+)
CDS_0063
CDS_0069
PV648360.1: 39,676-48,743 (+)
CDS_0063
MN850579.1: 39,134-48,026 (+)
homing endonuclease (CDS_0064)
thymidylate synthase (CDS_0067)
OP557970.1: 40,618-49,302 (+)
CDS_0056
HEase_00032 homing (CDS_0062)
CDS_0061
CDS_0063
OR062947.1: 39,118-49,805 (+)
HEase_00032 homing (CDS_0062)
CDS_0061
ribonucleotide reductase class Ia beta subunit (CDS_0063)
PP400777.1: 38,586-49,486 (+)
ribonucleotide reductase class Ia beta subunit (CDS_0065)
HEase_00032 homing (CDS_0064)
CDS_0063
CDS_0067
OQ067374.1: 39,418-50,894 (+)
CDS_0068
PQ480333.1: 40,807-52,284 (+)
endonuclease (CDS_0062)
CDS_0065
CDS_0073
OR352944.1: 38,857-50,612 (+)
CDS_0065
OR352945.1: 38,851-50,605 (+)
ribonucleotide reductase class Ia beta subunit (CDS_0061)
CDS_0060
homing endonuclease (CDS_0062)
CDS_0066
PP400780.1: 38,836-50,201 (+)
HEase_00032 homing (CDS_0063)
CDS_0062
ribonucleotide reductase class Ia beta subunit (CDS_0064)
NC_054940.1: 39,509-49,180 (+)
HEase_00032 homing (CDS_0062)
CDS_0061
ribonucleotide reductase class Ia beta subunit (CDS_0063)
PP400782.1: 38,430-47,857 (+)
CDS_0065
CDS_0069
MK373774.1: 38,602-49,064 (+)
homing endonuclease (CDS_0066)
unknown function (CDS_0068)
MK373782.1: 40,851-51,193 (+)
homing endonuclease (CDS_0065)
NC_054927.1: 39,424-50,251 (+)

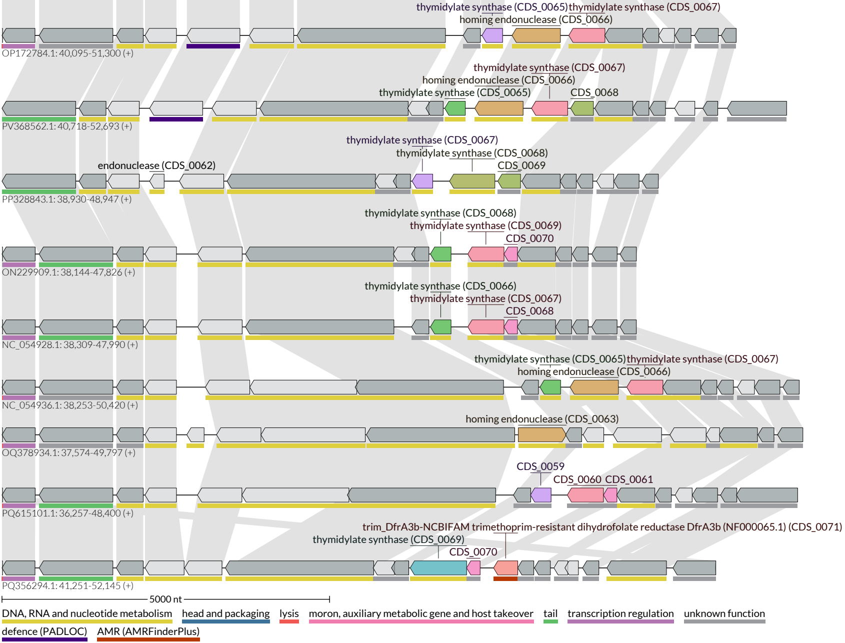

ribonucleotide reductase class Ia beta subunit (CDS_0063)
HEase_00032 homing (CDS_0062)
homing endonuclease (CDS_0065)
61
64
ribonucleoside-diphosphate reductase large subunit (CDS_0066)
PP400779.1: 39,579-52,407 (+)
ribonucleotide reductase class Ia beta subunit (CDS_0065)
aerobic NDP reductase small subunit (CDS_0063)
ribonucleotide reductase large subunit (CDS_0068)
ribonucleotide reductase (CDS_0066)
HEase_00032 homing (CDS_0064)
homing endonuclease (CDS_0067)
unknown function (CDS_0069)
NC_024125.2: 37,570-49,239 (+)
ribonucleotide reductase class Ia beta subunit (CDS_0061)
ribonucleotide reductase large subunit (CDS_0065)
aerobic NDP reductase small subunit (CDS_0059)
homing endonuclease (CDS_0064)
endonuclease (CDS_0060)
ribonucleotide reductase (CDS_0063)
homing endonuclease (CDS_0062)
unknown function (CDS_0066)
PP400786.1: 37,467-49,762 (+)
thymidylate synthase (CDS_0069)
thymidylate synthase (CDS_0070)
CDS_0071
ON720975.1: 40,556-50,728 (+)
CDS_0070
homing endonuclease (CDS_0065)
CDS_0069
thymidylate synthase (CDS_0071)
NC_054916.1: 42,911-52,355 (+)
thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
thymidylate synthase (CDS_0067)
CDS_0070
OQ067375.1: 41,314-52,058 (+)
homing endonuclease (CDS_0067)
thymidylate synthase (CDS_0066)
CDS_0069
CDS_0068
OR958571.1: 40,865-50,964 (+)
thymidylate synthase (CDS_0071)
homing endonuclease (CDS_0070)
thymidylate synthase (CDS_0069)
CDS_0072
PQ471460.1: 42,385-52,141 (+)
thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
CDS_0067
CDS_0070
CDS_0075
NC_054919.1: 41,903-52,241 (+)
thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
CDS_0067
CDS_0070
PV654520.1: 40,879-51,912 (+)
thymidylate synthase (CDS_0066)
homing endonuclease (CDS_0065)
CDS_0064
CDS_0067
ON782582.1: 40,802-51,197 (+)
homing endonuclease (CDS_0067)
thymidylate synthase (CDS_0066)
CDS_0069
CDS_0068
MT968995.1: 41,520-51,632 (+)
thymidylate synthase (CDS_0068)
homing endonuclease (CDS_0067)
CDS_0066
CDS_0069
MZ501089.1: 41,335-52,132 (+)
thymidylate synthase (CDS_0070)
homing endonuclease (CDS_0069)
thymidylate synthase (CDS_0068)
CDS_0071
MW822011.1: 39,987-50,575 (+)
thymidylate synthase (CDS_0068)
homing endonuclease (CDS_0067)
CDS_0066
CDS_0069
OZ035784.1: 41,209-51,782 (+)
CDS_0065
CDS_0063
CDS_0064
OQ992558.1: 40,871-50,331 (+)


thymidylate synthase (CDS_0066)
CDS_0068
CDS_0067
OP978391.1: 41,827-50,965 (+)
thymidylate synthase (CDS_0067)
CDS_0069
CDS_0068
PV287714.1: 39,213-48,803 (+)
thymidylate synthase (CDS_0067)
CDS_0069
CDS_0068
OP072537.1: 41,042-50,203 (+)
CDS_0070
CDS_0068
CDS_0069
MZ753803.1: 41,337-51,174 (+)
thymidylate synthase (CDS_0068)
thymidylate synthase (CDS_0069)
CDS_0070
PP925831.1: 41,970-51,107 (+)
thymidylate synthase (CDS_0067)
homing endonuclease (CDS_0062)
CDS_0066
CDS_0068
ON645936.1: 39,542-50,594 (+)
thymidylate synthase (CDS_0067)
homing endonuclease (CDS_0066)
thymidylate synthase (CDS_0065)
CDS_0068
NC_054904.1: 41,086-50,830 (+)
thymidylate synthase (CDS_0067)
homing endonuclease (CDS_0066)
thymidylate synthase (CDS_0065)
CDS_0068
OL741432.1: 41,257-51,090 (+)
thymidylate synthase (CDS_0071)
homing endonuclease (CDS_0070)
CDS_0069
CDS_0072
OR539219.1: 42,516-52,948 (+)
homing endonuclease (CDS_0069)
thymidylate synthase (CDS_0068)
CDS_0071
CDS_0070
NC_054911.1: 41,349-52,471 (+)
thymidylate synthase (CDS_0073)
homing endonuclease (CDS_0072)
thymidylate synthase (CDS_0071)
CDS_0074
MH550421.1: 43,301-54,065 (+)
thymidylate synthase (CDS_0072)
homing endonuclease (CDS_0071)
thymidylate synthase (CDS_0070)
CDS_0073
MN022785.1: 40,928-51,338 (+)
thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
thymidylate synthase (CDS_0067)
CDS_0070
PQ871103.1: 41,952-52,996 (+)
thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
thymidylate synthase (CDS_0067)
CDS_0070
PV245934.1: 39,712-49,837 (+)
thymidylate synthase (CDS_0067)
homing endonuclease (CDS_0066)
CDS_0065
CDS_0068
MT515754.1: 41,173-50,796 (+)
thymidylate synthase (CDS_0066)
thymidylate synthase (CDS_0068)
homing endonuclease (CDS_0067)
unknown function (CDS_0064)
CDS_0069
MZ234027.1: 41,343-50,988 (+)


thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
CDS_0067
CDS_0070
OZ035729.1: 41,369-51,577 (+)
thymidylate synthase (CDS_0068)
homing endonuclease (CDS_0067)
thymidylate synthase (CDS_0066)
CDS_0069
MG781191.1: 41,572-51,194 (+)
thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
thymidylate synthase (CDS_0067)
CDS_0070
OL310488.1: 41,460-52,139 (+)
thymidylate synthase (CDS_0068)
homing endonuclease (CDS_0067)
CDS_0066
CDS_0069
PP418987.1: 41,357-51,357 (+)
thymidylate synthase (CDS_0067)
thymidylate synthase (CDS_0068)
CDS_0069
MT515756.1: 41,334-50,961 (+)
thymidylate synthase (CDS_0067)
thymidylate synthase (CDS_0068)
CDS_0069
PP418986.1: 41,332-50,959 (+)
thymidylate synthase (CDS_0070)
homing endonuclease (CDS_0069)
CDS_0068
CDS_0071
NC_054909.1: 41,713-52,264 (+)
thymidylate synthase (CDS_0068)
homing endonuclease (CDS_0067)
CDS_0066
CDS_0069
OW536688.1: 41,471-51,471 (+)
thymidylate synthase (CDS_0068)
homing endonuclease (CDS_0067)
CDS_0066
CDS_0069
MZ234037.1: 41,343-50,990 (+)
thymidylate synthase (CDS_0065)
homing endonuclease (CDS_0064)
thymidylate synthase (CDS_0063)
CDS_0066
NC_054935.2: 41,160-51,106 (+)
thymidylate synthase (CDS_0181)
homing endonuclease (CDS_0182)
thymidylate synthase (CDS_0183)
CDS_0180
PQ799574.1: 96,788-106,928 (-)
thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
thymidylate synthase (CDS_0067)
CDS_0070
PQ642263.1: 41,832-52,473 (+)
thymidylate synthase (CDS_0068)
homing endonuclease (CDS_0067)
thymidylate synthase (CDS_0066)
CDS_0069
PQ553088.1: 41,832-52,473 (+)
thymidylate synthase (CDS_0071)
homing endonuclease (CDS_0070)
thymidylate synthase (CDS_0069)
CDS_0072
LR597660.1: 40,034-51,601 (+)
thymidylate synthase (CDS_0068)
homing endonuclease (CDS_0067)
CDS_0066
CDS_0069
NC_054924.1: 39,404-50,813 (+)
homing endonuclease (CDS_0067)
CDS_0066
thymidylate synthase (CDS_0068)
MK327928.1: 41,847-52,258 (+)


thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
unknown function (CDS_0075)
thymidylate synthase (CDS_0067)
CDS_0070
CDS_0076
MK327936.1: 41,221-52,945 (+)
thymidylate synthase (CDS_0070)
homing endonuclease (CDS_0069)
CDS_0068
CDS_0071
unknown function (CDS_0076)
MT828551.1: 43,074-54,102 (+)
thymidylate synthase (CDS_0067)
thymidylate synthase (CDS_0068)
CDS_0069
MZ502379.1: 41,054-50,949 (+)
ribonucleotide reductase large subunit (CDS_0066)
thymidylate synthase (CDS_0071)
homing endonuclease (CDS_0070)
ribonucleotide reductase (CDS_0065)
thymidylate synthase (CDS_0069)
CDS_0072
NC_054944.1: 42,506-54,229 (+)
thymidylate synthase (CDS_0067)
homing endonuclease (CDS_0066)
unknown function (CDS_0073)
thymidylate synthase (CDS_0065)
CDS_0068
CDS_0074
ON871820.1: 40,996-52,217 (+)
thymidylate synthase (CDS_0068)
CDS_0069
OR999189.1: 42,188-51,734 (+)
thymidylate synthase (CDS_0064)
CDS_0065
MW341595.1: 41,562-50,430 (+)
thymidylate synthase (CDS_0067)
CDS_0068
LR746311.1: 42,232-51,388 (+)
thymidylate synthase (CDS_0066)
CDS_0067
OR906198.1: 41,273-50,153 (+)
thymidylate synthase (CDS_0066)
CDS_0067
OY979771.1: 41,989-51,124 (+)
thymidylate synthase (CDS_0065)
CDS_0066
NC_025829.1: 41,814-50,355 (+)
thymidylate synthase (CDS_0065)
CDS_0066
NC_055741.1: 40,941-49,466 (+)
thymidylate synthase (CDS_0066)
CDS_0067
OP856590.1: 40,859-49,403 (+)
trim_DfrA3b-NCBIFAM trimethoprim-resistant dihydrofolate reductase DfrA3b (NF000065.1) (CDS_0068)
trim_DfrA9-NCBIFAM trimethoprim-resistant dihydrofolate reductase DfrA9 (NF000109.2) (CDS_0067)
thymidylate synthase (CDS_0065)
CDS_0066
NC_054905.1: 41,042-51,681 (+)
unknown function (CDS_0072)
CDS_0060
CDS_0061
thymidylate synthase (CDS_0066)
CDS_0067
CDS_0074
PP274704.1: 41,006-51,097 (+)
ribonucleotide reductase large subunit (CDS_0064)
thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
homing endonuclease (CDS_0063)
CDS_0067
CDS_0070
NC_055723.1: 39,294-49,763 (+)
thymidylate synthase (CDS_0071)
homing endonuclease (CDS_0070)
thymidylate synthase (CDS_0069)
CDS_0072
PP400788.1: 41,804-52,451 (+)
thymidylate synthase (CDS_0072)
homing endonuclease (CDS_0071)
CDS_0070
CDS_0073
PP400790.1: 41,160-53,199 (+)


thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
CDS_0067
CDS_0070
OP870145.1: 47,088-51,692 (+)
thymidylate synthase (CDS_0066)
homing endonuclease (CDS_0067)
CDS_0069
CDS_0068
PP987310.1: 48,926-53,321 (+)
thymidylate synthase (CDS_0064)
homing endonuclease (CDS_0065)
ribonucleotide reductase large subunit (CDS_0062)
thymidylate synthase (CDS_0066)
MT764206.1: 38,265-49,041 (+)
thymidylate synthase (CDS_0070)
homing endonuclease (CDS_0069)
thymidylate synthase (CDS_0068)
CDS_0071
MZ892903.1: 40,192-51,757 (+)
thymidylate synthase (CDS_0069)
homing endonuclease (CDS_0068)
thymidylate synthase (CDS_0067)
CDS_0070
PV654517.1: 42,048-52,169 (+)
CDS_0068
CDS_0067
CDS_0069
NC_054912.1: 38,790-48,904 (+)
thymidylate synthase (CDS_0068)
CDS_0067
CDS_0069
PP355091.1: 39,340-49,512 (+)
thymidylate synthase (CDS_0071)
homing endonuclease (CDS_0070)
CDS_0069
CDS_0072
MK327937.1: 42,097-53,526 (+)
thymidylate synthase (CDS_0068)
homing endonuclease (CDS_0067)
CDS_0066
CDS_0069
PQ249397.1: 38,955-49,751 (+)
thymidylate synthase (CDS_0067)
homing endonuclease (CDS_0066)
thymidylate synthase (CDS_0065)
CDS_0068
PV295200.1: 40,702-51,627 (+)
thymidylate synthase (CDS_0071)
homing endonuclease (CDS_0070)
69
7273
PQ249395.1: 40,437-51,232 (+)
thymidylate synthase (CDS_0207)
thymidylate synthase (CDS_0205)
homing endonuclease (CDS_0206)
NC_031047.1: 119,325-130,629 (-)
homing endonuclease (CDS_0072)
CDS_0074
CDS_0071
CDS_0073
MK327944.1: 41,917-52,619 (+)
homing endonuclease (CDS_0070)
CDS_0072
CDS_0069
CDS_0071
KM606995.1: 43,031-53,701 (+)
homing endonuclease (CDS_0070)
thymidylate synthase (CDS_0069)
HEase_00032 homing (CDS_0064)
CDS_0072
CDS_0071
NC_054937.1: 39,837-51,355 (+)
CDS_0069
CDS_0068
CDS_0070
NC_027353.1: 40,648-51,041 (+)


thymidylate synthase (CDS_0065)
thymidylate synthase (CDS_0067)
homing endonuclease (CDS_0066)
OP172784.1: 40,095-51,300 (+)
thymidylate synthase (CDS_0067)
homing endonuclease (CDS_0066)
thymidylate synthase (CDS_0065)
CDS_0068
PV368562.1: 40,718-52,693 (+)
thymidylate synthase (CDS_0067)
thymidylate synthase (CDS_0068)
endonuclease (CDS_0062)
CDS_0069
PP328843.1: 38,930-48,947 (+)
thymidylate synthase (CDS_0068)
thymidylate synthase (CDS_0069)
CDS_0070
ON229909.1: 38,144-47,826 (+)
thymidylate synthase (CDS_0066)
thymidylate synthase (CDS_0067)
CDS_0068
NC_054928.1: 38,309-47,990 (+)
thymidylate synthase (CDS_0065)
thymidylate synthase (CDS_0067)
homing endonuclease (CDS_0066)
NC_054936.1: 38,253-50,420 (+)
homing endonuclease (CDS_0063)
OQ378934.1: 37,574-49,797 (+)
CDS_0059
CDS_0060
CDS_0061
PQ615101.1: 36,257-48,400 (+)
trim_DfrA3b-NCBIFAM trimethoprim-resistant dihydrofolate reductase DfrA3b (NF000065.1) (CDS_0071)
thymidylate synthase (CDS_0069)
CDS_0070
PQ356294.1: 41,251-52,145 (+)
5000 nt
DNA, RNA and nucleotide metabolism
head and packaging
lysis
moron, auxiliary metabolic gene and host takeover
tail
transcription regulation
unknown function
defence (PADLOC)
AMR (AMRFinderPlus)