Lar-like restriction alleviation protein (CDS_0052)
HNH endonuclease (CDS_0053)
DNA methyltransferase (CDS_0051)
minor tail protein (CDS_0045)
endonuclease (CDS_0054)
tail length tape measure protein (CDS_0043)
DNA helicase (CDS_0050)
CDS_0056
CDS_0046
tail spike protein (CDS_0048)
CDS_0055
HNH endonuclease (CDS_0058)
CDS_0044
tail protein (CDS_0047)
CDS_0049
DNA polymerase (CDS_0057)
CDS_0059
TemPhD_cluster_41492 22910:38949(+)
DNA helicase (CDS_0050)
CDS_0049
tail spike protein (CDS_0048)
DNA methyltransferase (CDS_0051)
TemPhD_cluster_35919_ 22910:38949(+)
HNH endonuclease (CDS_0053)
51
tail spike protein (CDS_0050)
52
DNA helicase (CDS_0054)
57
exonuclease (CDS_0061)
TemPhD_cluster_48884_ 24134:41597(+)
49
51
tail spike protein (CDS_0048)
50
DNA helicase (CDS_0052)
endonuclease (CDS_0054)
TemPhD_cluster_41248 23982:40786(+)
tail spike protein (CDS_0047)
4849
50
51
TemPhD_cluster_49611 23085:38946(+)
HNH endonuclease (CDS_0051)
tail spike protein (CDS_0049)
HNH endonuclease (CDS_0053)
50
DNA helicase (CDS_0052)
TemPhD_cluster_41637 23027:40042(+)
HNH endonuclease (CDS_0050)
tail spike protein (CDS_0048)
49
51
52
57
TemPhD_cluster_49342 23116:39792(+)
tail spike protein (CDS_0046)
4748
49
50
TemPhD_cluster_19800 22595:38818(+)
CDS_0049
CDS_0050
CDS_0053
tail spike protein (CDS_0048)
DNA helicase (CDS_0051)
CDS_0055
CDS_0057
CDS_0059
CDS_0061
TemPhD_cluster_32010 25893:41309(+)
Holliday junction resolvase (CDS_0010)
HNH endonuclease (CDS_0009)
Retron_VI__HTH (CDS_0002)
CDS_0007
replicative helicase-primase (CDS_0001)
tail spike protein (CDS_0014)
CDS_0011
CDS_0008
CDS_0003
TemPhD_cluster_18826 1:16438(-)
HNH endonuclease (CDS_0009)
CDS_0007
CDS_0013
CDS_0008
TemPhD_cluster_21058 1:17310(-)
HNH endonuclease (CDS_0010)
CDS_0015
CDS_0009
CDS_0002
KF562865.1 1:17350(-)
DNA primase (CDS_0010)
CDS_0012
CDS_0011
DNA helicase (CDS_0009)
Holliday junction resolvase (CDS_0007)
TemPhD_cluster_48881_ 2202:17986(-)
CDS_0011
CDS_0012
CDS_0010
TemPhD_cluster_21074 3647:16337(-)
DNA primase (CDS_0013)
15
DNA helicase (CDS_0012)
14
DNA methyltransferase (CDS_0011)
TemPhD_cluster_35772_ 3821:18402(-)
CDS_0015
CDS_0014
CDS_0009
CDS_0016
CDS_0013
CDS_0010
TemPhD_cluster_16319 3921:17080(-)
CDS_0014
DNA helicase (CDS_0012)
CDS_0013
TemPhD_cluster_41423 3782:17674(-)
HNH endonuclease (CDS_0017)
19
DNA methyltransferase (CDS_0015)
18
16
12
8
NC_021777.1 3982:18156(-)
CDS_0013
CDS_0012
DNA methyltransferase (CDS_0011)
NC_042065.1 3107:17558(-)
CDS_0010
CDS_0011
CDS_0009
TemPhD_cluster_49249 3132:16884(-)
CDS_0015
CDS_0010
CDS_0016
CDS_0014
CDS_0012
KF562864.1 4157:17353(-)
CDS_0015
DNA helicase (CDS_0013)
CDS_0014
TemPhD_cluster_32090 4158:17047(-)
CDS_0013
CDS_0014
exonuclease (CDS_0012)
JX202565.1 3580:17357(-)
DNA helicase (CDS_0014)
CDS_0016
CDS_0015
Mom-like DNA modification protein (CDS_0013)
TemPhD_cluster_48885_ 3968:18314(-)
CDS_0012
CDS_0013
CDS_0011
NC_031925.1 3131:17374(-)
CDS_0013
CDS_0014
DNA helicase (CDS_0012)
CDS_0007
TemPhD_cluster_41645 3424:16754(-)
CDS_0014
CDS_0013
DNA methyltransferase (CDS_0012)
TemPhD_cluster_19344 3424:17815(-)
DNA primase (CDS_0013)
CDS_0015
CDS_0014
CDS_0012
TemPhD_cluster_49354 3424:17675(-)
HNH endonuclease (CDS_0013)
CDS_0015
CDS_0014
DNA helicase (CDS_0012)
TemPhD_cluster_35897_ 3667:18017(-)
HNH endonuclease (CDS_0032)
CDS_0030
CDS_0031
CDS_0033
NC_028698.1 17858:31891(+)
CDS_0030
DNA helicase (CDS_0032)
CDS_0031
TemPhD_cluster_36252 18053:31780(+)
CDS_0012
exonuclease (CDS_0011)
TemPhD_cluster_49400 3127:17212(-)
CDS_0012
exonuclease (CDS_0011)
TemPhD_cluster_60992 3089:17094(-)
CDS_0013
exonuclease (CDS_0012)
HNH endonuclease (CDS_0011)
TemPhD_cluster_49754 3089:17410(-)
CDS_0013
CDS_0014
exonuclease (CDS_0012)
TemPhD_cluster_49135 3909:18765(-)
CDS_0011
CDS_0010
NC_023608.1 3127:17977(-)
CDS_0014
DNA helicase (CDS_0013)
TemPhD_cluster_35845_ 3935:18173(-)
HNH endonuclease (CDS_0013)
CDS_0015
CDS_0014
DNA helicase (CDS_0012)
TemPhD_cluster_35875_ 3132:17832(-)
HNH endonuclease (CDS_0012)
CDS_0014
CDS_0013
DNA helicase (CDS_0011)
TemPhD_cluster_41805 3127:17640(-)
HNH endonuclease (CDS_0014)
CDS_0016
CDS_0015
exonuclease (CDS_0013)
TemPhD_cluster_60624 3356:17987(-)
DNA primase (CDS_0011)
CDS_0013
CDS_0012
DNA helicase (CDS_0010)
TemPhD_cluster_36013_ 3046:18342(-)
DNA primase (CDS_0010)
CDS_0012
CDS_0011
DNA helicase (CDS_0009)
TemPhD_cluster_23397 3046:17986(-)
DNA primase (CDS_0012)
CDS_0013
exonuclease (CDS_0011)
TemPhD_cluster_49338 3367:17760(-)
DNA primase (CDS_0013)
CDS_0015
CDS_0014
DNA helicase (CDS_0012)
TemPhD_cluster_48906_ 3132:17819(-)
CDS_0014
tail length tape measure protein (CDS_0020)
tail spike protein (CDS_0015)
CDS_0013
HNH endonuclease (CDS_0012)
TemPhD_cluster_11231 3089:19165(-)
DNA helicase (CDS_0012)
CDS_0013
tail spike protein (CDS_0014)
HNH endonuclease (CDS_0011)
TemPhD_cluster_36670_ 3090:18652(-)
DNA helicase (CDS_0012)
CDS_0013
tail spike protein (CDS_0014)
DNA methyltransferase (CDS_0011)
TemPhD_cluster_32286 3089:19763(-)
DNA helicase (CDS_0012)
CDS_0013
tail spike protein (CDS_0014)
DNA methyltransferase (CDS_0011)
TemPhD_cluster_32287 3089:19763(-)
CDS_0013
tail spike protein (CDS_0014)
DNA helicase (CDS_0012)
TemPhD_cluster_32211 3272:19906(-)
CDS_0010
tail spike protein (CDS_0011)
exonuclease (CDS_0009)
TemPhD_cluster_60639 3132:19846(-)
CDS_0014
tail spike protein (CDS_0015)
DNA helicase (CDS_0013)
TemPhD_cluster_32128 3927:20455(-)
CDS_0014
tail spike protein (CDS_0015)
DNA helicase (CDS_0013)
TemPhD_cluster_41506 3366:20748(-)
CDS_0013
CDS_0012
tail spike protein (CDS_0014)
exonuclease (CDS_0011)
TemPhD_cluster_49502 3280:19479(-)
tail spike protein (CDS_0014)
CDS_0013
tail spike protein (CDS_0015)
DNA helicase (CDS_0012)
TemPhD_cluster_35879_ 3107:20724(-)
tail spike protein (CDS_0013)
CDS_0012
tail spike protein (CDS_0014)
DNA helicase (CDS_0011)
TemPhD_cluster_29753 3089:19125(-)
tail spike protein (CDS_0016)
15
tail spike protein (CDS_0017)
14
exonuclease (CDS_0013)
TemPhD_cluster_49606 3531:20096(-)
DNA primase (CDS_0016)
CDS_0017
DNA methyltransferase (CDS_0014)
tail fiber protein (CDS_0018)
DNA helicase (CDS_0015)
CDS_0012
TemPhD_cluster_48895_ 3482:17979(-)
CDS_0014
DNA polymerase (CDS_0009)
CDS_0015
CDS_0013
CDS_0012
CDS_0008
NC_016763.1 3579:17558(-)
7000 nt
DNA, RNA and nucleotide metabolism
head and packaging
moron, auxiliary metabolic gene and host takeover
other
tail
unknown function
Defence