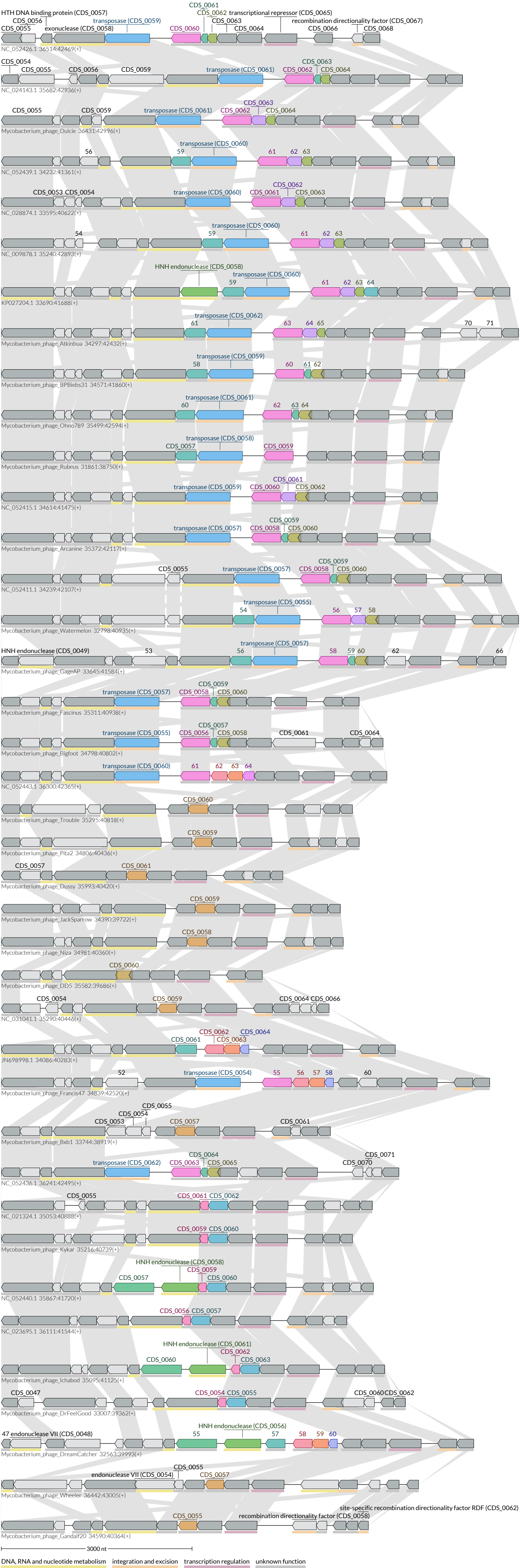
HTH DNA binding protein (CDS_0057)
CDS_0056
CDS_0055
exonuclease (CDS_0058)
transposase (CDS_0059)
CDS_0061
CDS_0062 transcriptional repressor (CDS_0065)
CDS_0060
CDS_0063
CDS_0064
recombination directionality factor (CDS_0067)
CDS_0066
CDS_0068
NC_052426.1 36514:42469(+)
CDS_0054
CDS_0055
CDS_0056
CDS_0059
transposase (CDS_0061)
CDS_0063
CDS_0062
CDS_0064
NC_024143.1 35682:42936(+)
CDS_0055
CDS_0059
transposase (CDS_0061)
CDS_0063
CDS_0062
CDS_0064
Mycobacterium_phage_Dulcie 36431:42996(+)
transposase (CDS_0060)
56
59
61
62
63
NC_052439.1 34232:41361(+)
CDS_0053 CDS_0054
transposase (CDS_0060)
CDS_0062
CDS_0061
CDS_0063
NC_028874.1 33595:40622(+)
transposase (CDS_0060)
54
59
61
62
63
NC_009878.1 35240:42893(+)
HNH endonuclease (CDS_0058)
transposase (CDS_0060)
59
61
62
63
64
KP027204.1 33690:41688(+)
transposase (CDS_0062)
61
63
64
65
70
71
Mycobacterium_phage_Atkinbua 34297:42432(+)
transposase (CDS_0059)
58
60
61
62
Mycobacterium_phage_BPBiebs31 34571:41860(+)
transposase (CDS_0061)
60
62
63
64
Mycobacterium_phage_Ohno789 35499:42594(+)
transposase (CDS_0058)
CDS_0057
CDS_0059
Mycobacterium_phage_Rubeus 31861:38750(+)
CDS_0061
transposase (CDS_0059)
CDS_0060
CDS_0062
NC_052415.1 34614:41475(+)
CDS_0059
transposase (CDS_0057)
CDS_0058
CDS_0060
Mycobacterium_phage_Arcanine 35372:42117(+)
CDS_0059
CDS_0055
transposase (CDS_0057)
CDS_0058
CDS_0060
NC_052411.1 34239:42107(+)
transposase (CDS_0055)
54
56
57
58
Mycobacterium_phage_Watermelon 32798:40935(+)
transposase (CDS_0057)
HNH endonuclease (CDS_0049)
53
56
58
59
60
62
66
Mycobacterium_phage_GageAP 33645:41584(+)
CDS_0059
transposase (CDS_0057)
CDS_0058
CDS_0060
Mycobacterium_phage_Fascinus 35311:40938(+)
CDS_0057
transposase (CDS_0055)
CDS_0056
CDS_0058
CDS_0061
CDS_0064
Mycobacterium_phage_Bigfoot 34798:40802(+)
transposase (CDS_0060)
61
62
63
64
NC_052443.1 36300:42365(+)
CDS_0060
Mycobacterium_phage_Trouble 35295:40818(+)
CDS_0059
Mycobacterium_phage_Pita2 34806:40436(+)
CDS_0057
CDS_0061
Mycobacterium_phage_Dussy 35993:40420(+)
CDS_0059
Mycobacterium_phage_JackSparrow 34390:39722(+)
CDS_0058
Mycobacterium_phage_Niza 34981:40360(+)
CDS_0060
Mycobacterium_phage_DD5 35582:39686(+)
CDS_0054
CDS_0059
CDS_0064 CDS_0066
NC_031041.1 35290:40446(+)
CDS_0062
CDS_0064
CDS_0061
CDS_0063
JN698998.1 34086:40283(+)
52
transposase (CDS_0054)
55
56
57
58
60
Mycobacterium_phage_Francis47 34839:42520(+)
CDS_0055
CDS_0054
CDS_0053
CDS_0057
CDS_0061
Mycobacterium_phage_Bxb1 33744:38919(+)
CDS_0064
CDS_0071
transposase (CDS_0062)
CDS_0063
CDS_0065
CDS_0070
NC_052436.1 36241:42495(+)
CDS_0055
CDS_0061 CDS_0062
NC_021324.1 35053:40888(+)
CDS_0059 CDS_0060
Mycobacterium_phage_Kykar 35216:40739(+)
HNH endonuclease (CDS_0058)
CDS_0059
CDS_0057
CDS_0060
NC_052440.1 35867:41720(+)
CDS_0056 CDS_0057
NC_023695.1 36111:41544(+)
HNH endonuclease (CDS_0061)
CDS_0062
CDS_0060
CDS_0063
Mycobacterium_phage_Ichabod 35095:41125(+)
CDS_0047
CDS_0054 CDS_0055
CDS_0060 CDS_0062
Mycobacterium_phage_DrFeelGood 33007:39362(+)
HNH endonuclease (CDS_0056)
47 endonuclease VII (CDS_0048)
55
57
58
59
60
Mycobacterium_phage_DreamCatcher 32563:39993(+)
CDS_0055
endonuclease VII (CDS_0054)
CDS_0057
Mycobacterium_phage_Wheeler 36442:43005(+)
site-specific recombination directionality factor RDF (CDS_0062)
CDS_0055
recombination directionality factor (CDS_0058)
Mycobacterium_phage_Gandalf20 34590:40364(+)
3000 nt
DNA, RNA and nucleotide metabolism
integration and excision
transcription regulation
unknown function