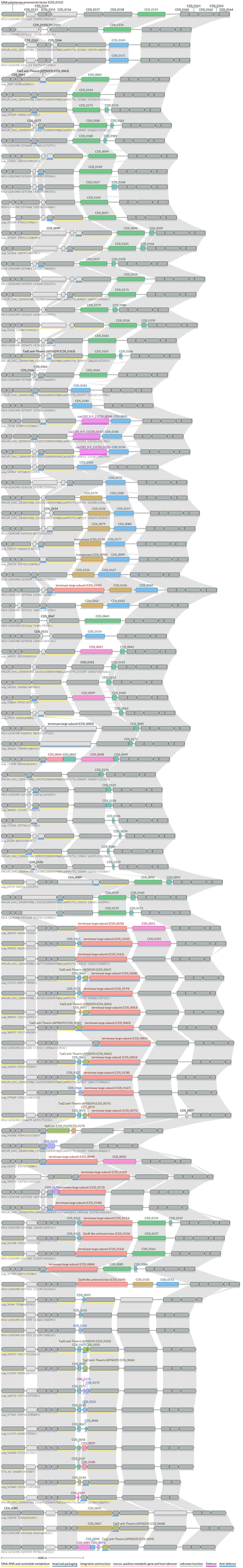
DNA polymerase processivity factor (CDS_0152)
CDS_0154
CDS_0153
CDS_0155
CDS_0156
CDS_0157
CDS_0158
CDS_0159
CDS_0161
CDS_0163
CDS_0164
CDS_0160
CDS_0162
MGV-GENOME-0258148 13209 [-14421k+]
CDS_0150/CDS_0151
CDS_0154
MGV-GENOME-0377466 12218 [-10242k+]
CDS_0154
CDS_0163
CDS_0156
CDS_0169
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 104886 1337603-1371360+
MGV-GENOME-0377466 12218 [-10242k+]
CDS_0171
MGV-GENOME-0377466 12218 [-10242k+]
Tad2 anti-Thoeris (APS029) (CDS_0063)
CDS_0041
CDS_0065
orng_8420 1428 [-8248k+]
CDS_0154
CDS_0175
CDS_0176
orng_24339 1409251 [-8248k+]
CDS_0177
CDS_0180
CDS_0181
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1094401 1418642-1541312+
CDS_0180
CDS_0181
MGV-GENOME-0376694 1 [-1541312k+]
CDS_0094
CDS_0149
MGV-GENOME-0376539 1 [-1541312k+]
CDS_0147
CDS_0148
MGV-GENOME-0376784 1 [-1541312k+]
CDS_0145
MGV-GENOME-0377466 1 [-1541312k+]
CDS_0057
orng_19239 1 [-4743155k+]
CDS_0090
CDS_0094
CDS_0095
orng_6316 1 [-1541312k+]
CDS_0165
CDS_0166
orng_16506 1 [-1541312k+]
CDS_0157
CDS_0158
MGV-GENOME-0377466 1 [-1541312k+]
CDS_0019
MGV-GENOME-0377922 1 [-1541312k+]
CDS_0173
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1096019 1485971-1495464+
CDS_0179
CDS_0180
MGV-GENOME-0376343 1 [-1541312k+]
CDS_0158
CDS_0159
orng_4566 1 [-1485944k+]
CDS_0183
MGV-GENOME-0378475 1 [-1541312k+]
Tad2 anti-Thoeris (APS029) (CDS_0163)
CDS_0165
CDS_0166
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1051897 1362624-1473037+
CDS_0181
CDS_0162
CDS_0164
MGV-GENOME-0377482 1 [-1541312k+]
CDS_0181
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1019777 1501532-1517874+
CDS_0140
MGV-GENOME-0374027 1 [-1541312k+]
cas12f2_V-F_2 (CDS_0094)
CDS_0095
orng_7596 1018891 [-1318860k+]
cas12f2_V-F_2 (CDS_0147)
CDS_0148
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1019181 1337603-1541312+
cas12f2_V-F_2 (CDS_0150)
CDS_0156
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1000190 1501532-1541312+
CDS_0153
orng_5449k7 1075681 [-1318860k+]
CDS_0172
MGV-GENOME-0376156 1 [-1318860k+]
CDS_0179
CDS_0180
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1001931 1422896-1518861+
CDS_0154
CDS_0156
CDS_0157
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1001931 1422896-1518861+
CDS_0079
CDS_0080
orng_1367 1424663 [-1318860k+]
transposase (CDS_0176)
CDS_0177
orng_236754 1017651 [-1318860k+]
transposase (CDS_0098)
CDS_0099
orng_236754 1017651 [-1318860k+]
CDS_0126
CDS_0127
MGV-GENOME-0372939 1 [-1318860k+]
terminase large subunit (CDS_0148)
CDS_0146
CDS_0147
MGV-GENOME-0376564 1 [-1318860k+]
CDS_0162
CDS_0163
MGV-GENOME-0375551 1 [-1318860k+]
CDS_0069
CDS_0067
MGV-GENOME-0372166 1 [-1318860k+]
CDS_0154
CDS_0151
MGV-GENOME-0374958 1 [-1318860k+]
CDS_0041
CDS_0042
orng_1402011 1453330 [-1318860k+]
CDS_0052
CDS_0053
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1010039 1342637-1424063+
CDS_0053
orng_1661881 1410661 [-1318860k+]
CDS_0099
CDS_0100
orng_378824 1997470 [-1318860k+]
CDS_0063
orng_29529 1650664 [-1318860k+]
terminase large subunit (CDS_0083)
CDS_0085
MGV-GENOME-0369961 1 [-1318860k+]
CDS_0171
orng_1416616 1396851 [-1318860k+]
CDS_0044
CDS_0047
CDS_0048
CDS_0049
orng_1 [-1318860k+]
CDS_0176
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1010039 1446019-1522224+
CDS_0125
MGV-GENOME-0371339 1 [-1318860k+]
CDS_0158
orng_1884051 1331681 [-1318860k+]
CDS_0156
orng_1 [-1318860k+]
CDS_0024
orng_1 [-1318860k+]
CDS_0180
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1178964 1422896-1518860+
CDS_0156
CDS_0159
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1228648 1416642-1518860+
CDS_0089
CDS_0092
CDS_0093
orng_69124 1037622 [-1153370k+]
CDS_0159
CDS_0160
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1336763 1380661-1459461+
CDS_0170
CDS_0171
MGV-GENOME-0378568 1 [-1153370k+]
terminase large subunit (CDS_0050)
CDS_0051
orng_383424 466681 [-1153370k+]
CDS_0151
terminase large subunit (CDS_0102)
CDS_0103
orng_399321 96220 [-1073793k+]
terminase large subunit (CDS_0162)
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1336763 1338319-1438350+
Tad2 anti-Thoeris (APS029) (CDS_0067)
CDS_0064
terminase large subunit (CDS_0068)
orng_535113 60559 [-1073793k+]
CDS_0172
terminase large subunit (CDS_0176)
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1119910 1410661-1507184+
Tad2 anti-Thoeris (APS029) (CDS_0062)
CDS_0061
terminase large subunit (CDS_0063)
orng_384641 51657 [-1073793k+]
Tad2 anti-Thoeris (APS029) (CDS_0062)
terminase large subunit (CDS_0063)
orng_384597 59127 [-1073793k+]
terminase large subunit (CDS_0001)
MGV-GENOME-0378280 1 [-1073793k+]
Tad2 anti-Thoeris (APS029) (CDS_0062)
CDS_0061
terminase large subunit (CDS_0063)
orng_563013 59134 [-1073793k+]
CDS_0137
terminase large subunit (CDS_0138)
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1098907 1386713-1396401+
CDS_0164
terminase large subunit (CDS_0167)
orng_379609 1378241 [-1073793k+]
Tad2 anti-Thoeris (APS029) (CDS_0073)
CDS_0074
CDS_0072
terminase large subunit (CDS_0075)
CDS_0077
MGV-GENOME-0378889 1 [-1073793k+]
helicase (CDS_0169)
CDS_0170
orng_242468 1434537 [-1153330k+]
CDS_0153
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1010039 1344134-1466834+
terminase large subunit (CDS_0048)
CDS_0050
orng_61641 [-1153330k+]
terminase large subunit (CDS_0160)
orng_399327 1307304 [-1153330k+]
CDS_0171
terminase large subunit (CDS_0172)
MGV-GENOME-0375930 1 [-1153330k+]
terminase large subunit (CDS_0148)
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1010039 1344134-1466834+
CDS_0152
terminase large subunit (CDS_0153)
CDS_0154
CDS_0155
MGV-GENOME-0374088 1 [-1153330k+]
CDS_0155
DarB-like antiretrostriction (CDS_0156)
CDS_0157
orng_562568 1343614 [-1153330k+]
terminase large subunit (CDS_0162)
CDS_0163
MGV-GENOME-0375180 1 [-1153330k+]
terminase large subunit (CDS_0084)
CDS_0085
CDS_0086
orng_307080 6867194 [-1153330k+]
DarB-like antiretrostriction (CDS_0149)
CDS_0150
CDS_0151
MGV-GENOME-0375001 1 [-1153330k+]
CDS_0093
orng_34344 7058803 [-1153330k+]
CDS_0131
MGV-GENOME-0375009 1 [-1153330k+]
CDS_0131
orng_1 [-1153330k+]
Tad2 anti-Thoeris (APS029) (CDS_0102)
CDS_0103
orng_507017 1037 [-1153330k+]
Tad2 anti-Thoeris (APS029) (CDS_0066)
CDS_0067
orng_513054 587844 [-1153330k+]
CDS_0172
CDS_0173
orng_568732 1377 [-1153330k+]
CDS_0151
CDS_0150
orng_377665 1297231 [-1153330k+]
CDS_0068
CDS_0067
orng_511271 64300 [-1153330k+]
CDS_0058
CDS_0059
orng_564060 1157021 [-1153330k+]
CDS_0147
CDS_0168
OTU_46-136689 [-1153330k+]
CDS_0149
orng_541869 1292917 [-1153330k+]
CDS_0147
MHCMR_UVIG_300004019BE_2180472000040198BGeneW9578_1 1378841 1388296+
CDS_0088
CDS_0091
orng_128196 767068 [-1153330k+]
CDS_0067
Tad2 anti-Thoeris (APS029) (CDS_0068)
MGV-GENOME-0375458 696458 [-1153330k+]
CDS_0090
CDS_0091
CDS_0089
Tad2 anti-Thoeris (APS029) (CDS_0092)
MGV-GENOME-0375059 1976 [-1153330k+]
400 kbp
RNA and nucleotide metabolism
head and packaging
integration and excision
moron, auxiliary metabolic gene and host takeover
unknown function
Defence
Anti-defence