

anti-CRISPR-Cas evasion by DNA repair (APIS131) (CDS_0054)

DnaC-like helicase loader

55 56 57 58 59 DNA methyltransferase (CDS_0060) terminase small subunit (CDS_0061)

IMGVR_UVIG_3300045988_067313|3300045988|Ga0495776_179603:37,601-42,754 (+)

43 DnaC-like helicase loader (CDS_0044) 49 51

SAMN09781731_a1_ct115804_vs1:31,694-36,198 (+)

59 61

IMGVR_UVIG_3300045988_127573|3300045988|Ga0495776_071723:36,403-40,124 (+)

RM_Type_II_Type_II_MTases_FAM_1 (CDS_0060)

54 MTase_II_00015 Type (CDS_0059)

IMGVR_UVIG_3300045988_074157|3300045988|Ga0495776_176203:36,371-40,786 (+)

49 56 57 MTase_II_00015 Type (CDS_0061) 1

uvig_589594:34,562-41,498 (+); 1-1,323 (+)

42 44 45

MGV-GENOME-0227221:26,394-32,783 (+)

37 43 dUTPase (CDS_0044)

MGV-GENOME-0234389:27,030-34,184 (+)

42

uvig_413643:27,021-34,184 (+)

55 dUTPase (CDS_0056)

MGV-GENOME-0275040:34,074-41,239 (+); 1-3,328 (+)

54 60

IMGVR_UVIG_3300045988_103942|3300045988|Ga0495776_179887:36,228-42,938 (+)

60

SAMN05414971_a1_ct19091:35,414-41,933 (+)

52

IMGVR_UVIG_3300045988_073462|3300045988|Ga0495776_161554:32,137-37,679 (+)

anti-CRISPR-Cas evasion by DNA repair (APIS120) (CDS_0046)

47 51

uvig_405938:32,207-40,270 (+)

portal protein (CDS_0002)

47 51

uvig_405938:32,207-40,270 (+)

4000 nt

DNA, RNA and nucleotide metabolism head and packaging other unknown function defence (DefenseFinder) defence (PADLOC) anti-defence (dbAPIS)