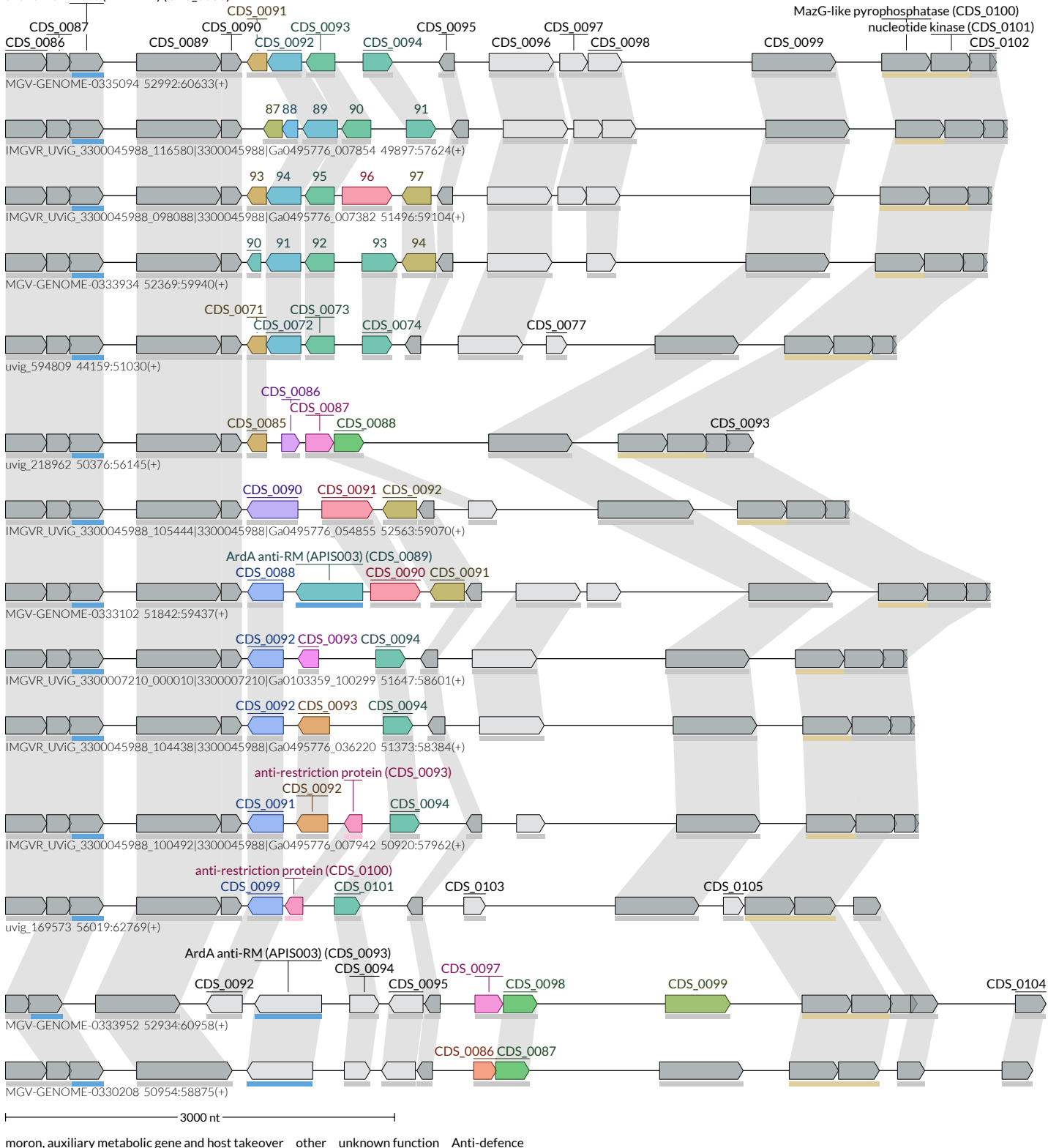


## anti-CRISPR-Cas (AcrlIA17) (CDS\_0088)



MazG-like pyrophosphatase (CDS\_0100)

nucleotide kinase (CDS\_0101)

CDS\_0102

CDS\_0087

CDS\_0091

CDS\_0090

CDS\_0093

CDS\_0095

CDS\_0097

CDS\_0098

CDS\_0099

CDS\_0086

CDS\_0089

CDS\_0092

CDS\_0094

CDS\_0096

CDS\_0097

CDS\_0098

CDS\_0099

MGV-GENOME-0335094 52992:60633(+)

8788 89 90 91

IMGVr\_UViG\_3300045988\_116580|3300045988|Ga0495776\_007854 49897:57624(+)

93 94 95 96 97

IMGVr\_UViG\_3300045988\_098088|3300045988|Ga0495776\_007382 51496:59104(+)

90 91 92 93 94

MGV-GENOME-0333934 52369:59940(+)

CDS\_0071

CDS\_0073

CDS\_0072

CDS\_0074

CDS\_0077

uvig\_594809 44159:51030(+)

CDS\_0086

CDS\_0087

CDS\_0085

CDS\_0088

CDS\_0093

uvig\_218962 50376:56145(+)

CDS\_0090

CDS\_0091

CDS\_0092

IMGVr\_UViG\_3300045988\_105444|3300045988|Ga0495776\_054855 52563:59070(+)

ArdA anti-RM (APIS003) (CDS\_0089)

CDS\_0088

CDS\_0090

CDS\_0091

MGV-GENOME-0333102 51842:59437(+)

CDS\_0092

CDS\_0093

CDS\_0094

IMGVr\_UViG\_3300007210\_000010|3300007210|Ga0103359\_100299 51647:58601(+)

CDS\_0092

CDS\_0093

CDS\_0094

IMGVr\_UViG\_3300045988\_104438|3300045988|Ga0495776\_036220 51373:58384(+)

anti-restriction protein (CDS\_0093)

CDS\_0092

CDS\_0094

IMGVr\_UViG\_3300045988\_100492|3300045988|Ga0495776\_007942 50920:57962(+)

anti-restriction protein (CDS\_0100)

CDS\_0099

CDS\_0101

CDS\_0103

CDS\_0105

uvig\_169573 56019:62769(+)

ArdA anti-RM (APIS003) (CDS\_0093)

CDS\_0094

CDS\_0092

CDS\_0095

CDS\_0097

CDS\_0098

CDS\_0099

CDS\_0104

MGV-GENOME-0333952 52934:60958(+)

CDS\_0086

CDS\_0087

MGV-GENOME-0330208 50954:58875(+)