

The figure displays a detailed genomic map of the plasmid pTIGR-FAMs, which is 10,000 nt long. The map includes numerous genes and their functions, organized into several clusters:

- Mercury Resistance System:** Includes MerP (TIGR02052.1), MerB (NF033783.1), MerC (NF033784.1), MerD (NF033783.1), MerE (NF010310.2), MerF (NF010310.2), MerG (NF010310.2), MerH (NF010310.2), MerI (NF010310.2), MerJ (NF010310.2), MerK (NF010310.2), MerL (NF010310.2), MerM (NF010310.2), MerN (NF010310.2), MerO (NF010310.2), MerP (NF010310.2), MerQ (NF010310.2), MerR (NF010310.2), MerS (NF010310.2), MerT (NF010310.2), MerU (NF010310.2), MerV (NF010310.2), MerW (NF010310.2), MerX (NF010310.2), MerY (NF010310.2), MerZ (NF010310.2).
- Transcriptional Regulation:** Includes PRK13747.1-PRK PRK [PRK13747.1], PRK13752.1-PRK PRK [PRK13752.1], Hg(II)-responsive transcriptional regulator (NF010315.0), coreg_MerD-NCBIFAM mercury resistance co-regulator MerD (NF033783.1), lyase_MerB-NCBIFAM organomercurial lyase MerB (NF033555.1), MerA-TIGRFAMs TIGRFAMs: mercury(III) reductase (TIGR02053.1), Mercuric transport protein MerT (BIMPNJGH_00007), IS110 family transposase IS4321R (BIMPNJGH_00009), PlcR-PapR quorum sensing (VF0660) (BIMPNJGH_00001).
- Other Genes:** Includes tRNA(fMet)-specific endonuclease VapC (MEAEHDO_00007), HTH-type transcriptional repressor ComR (MEAEHDO_00012), PDC-567_WP_013220863.1 (MEAEHDO_00004), IS6 family transposase IS26 (MEAEHDO_00009), Tyrosine recombinase XerC (MEAEHDO_00003), Inner membrane ABC transporter permease protein YnjC (JGMDDBKL_00072), HTH-type transcriptional repressor ComR (JGMDDBKL_00078), ABC-type heme transporter VF0739 (JGMDDBKL_00073), Soluble pyridine nucleotide transhydrogenase (JGMDDBKL_00069), Inner membrane protein YnjF (JGMDDBKL_00074), Sigma M (VF0822) (JGMDDBKL_00075), Protein YnjB (JGMDDBKL_00071), gcu167_gcu167B (JGMDDBKL_00077).

The map also shows the locations of various defense systems: defence (DefenseFinder), defence (PADLOC), virulence (VFDB), and AMR (AMRFinderPlus). A scale bar indicates 10,000 nt.