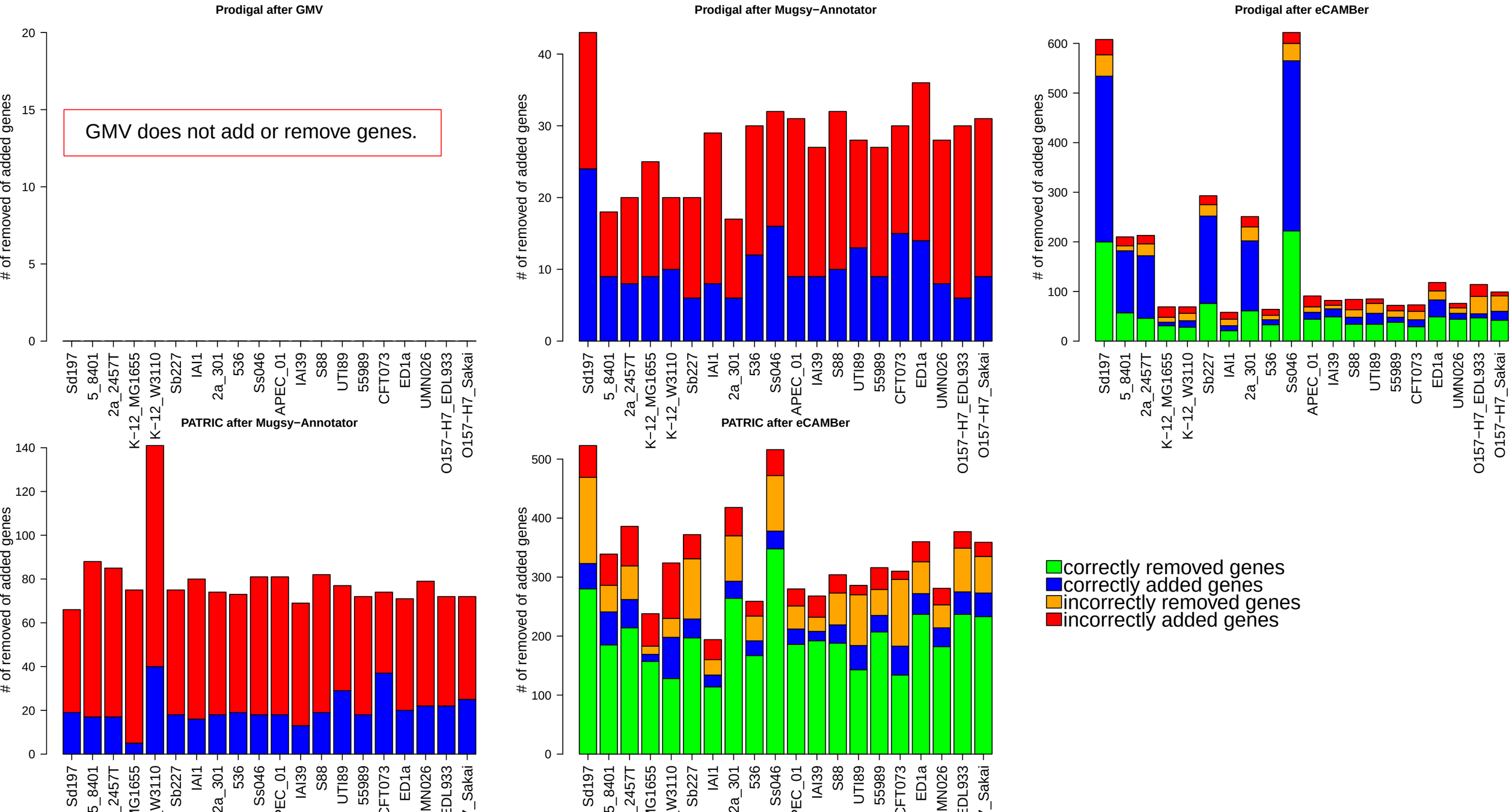Assessment of the correctness of gene removals and additions