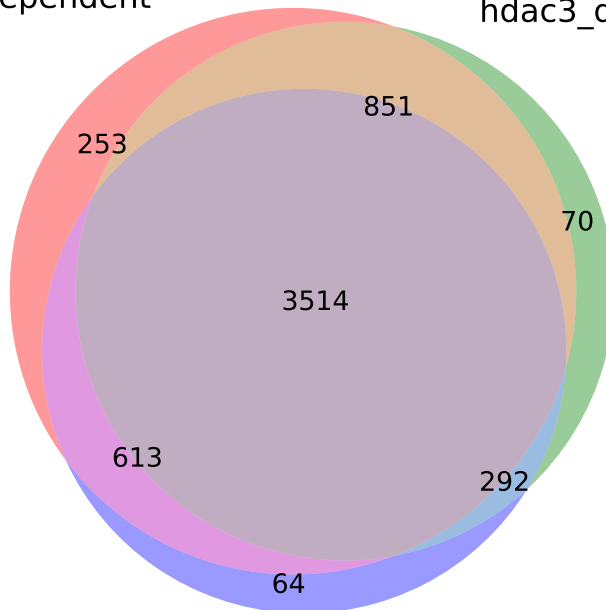rAMP_fold_diff > 1_ or phase_diff > 3