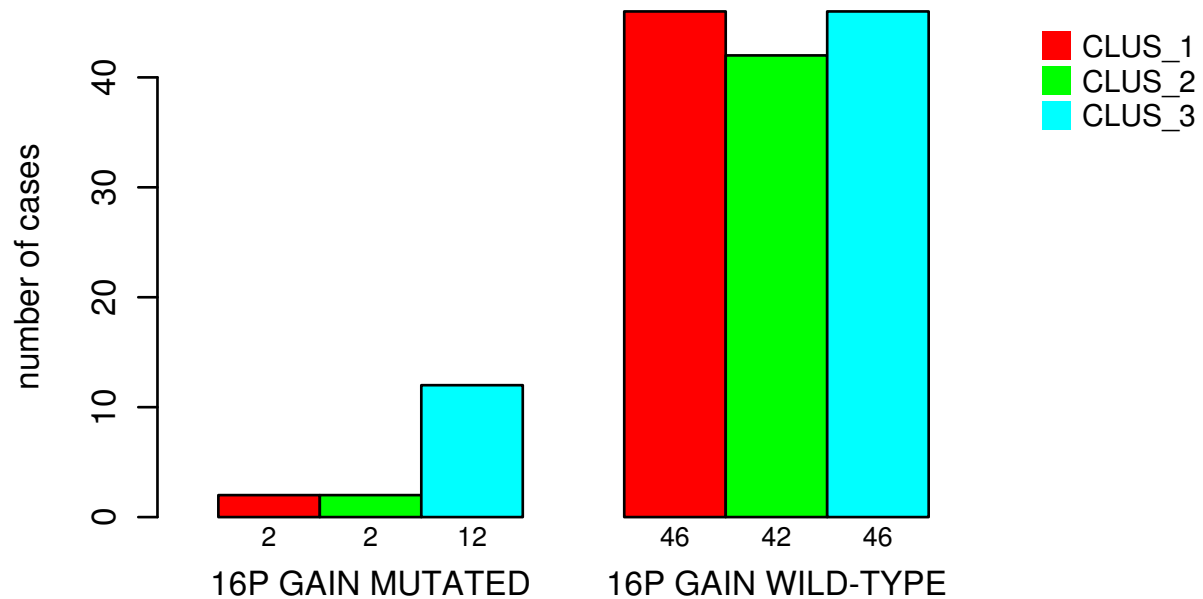CN_CNMF