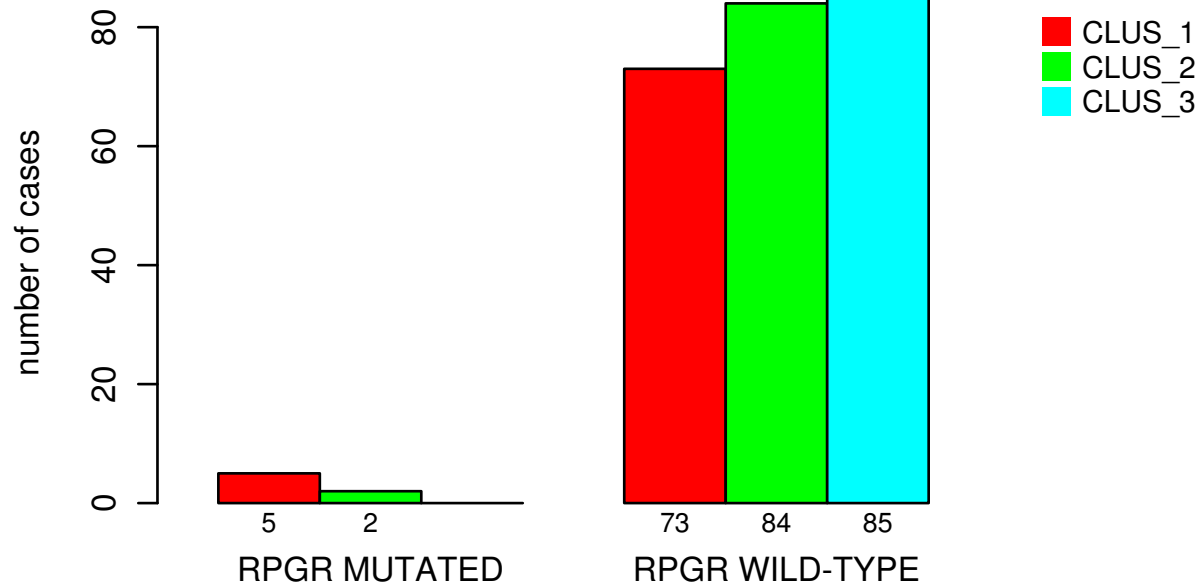RPPA_CNMF