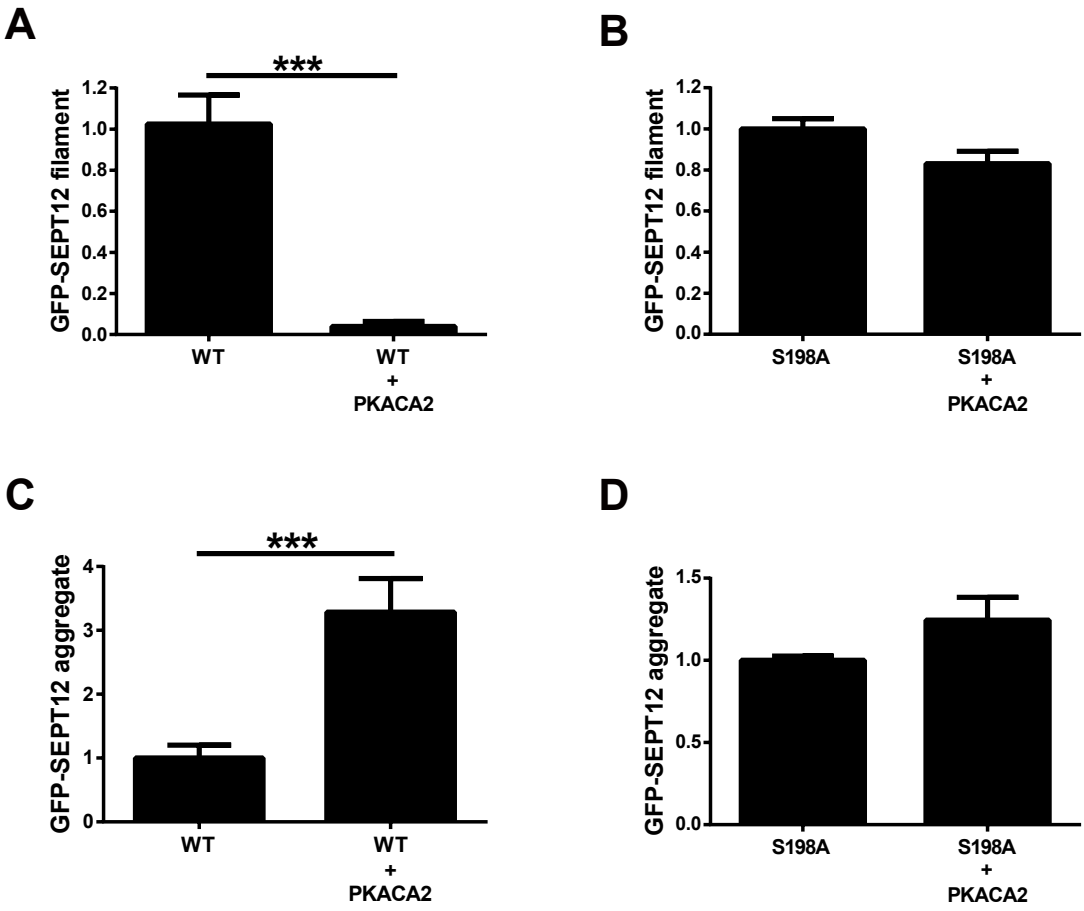Supplementary figure 10