

Figure S1 – Optimization of RGS4 and RGS17 Vector Pairs. A) Buffer subtracted AlF_4 response for each RGS4: $G\alpha_{i1}$ vector combination. B) Magnitude and C) fold response for each vector combination over buffer treated samples based on AUC analysis of the combined data. Conditions marked with (#) denote the four chosen as the optimal pairs. Panels D-F represent the same analysis for RGS17: $G\alpha_{i1}$ vector combinations.

Figure S2 – Differential RGS Response, RGS: $G\alpha_{i1}$ Interactions. Buffer subtracted AlF_4 response over time for each of the 13 RGS: $G\alpha_{i1}$ combinations tested. These data correspond to the area under the curve analysis shown in Figure 3A. Data are the background subtracted results of $n=3$ in at least duplicate, \pm SEM.