

Supplementary Figures

Supplementary Figure 1. $\rho 1T6'$ mutants: GABA concentration-response curves. A. T6'Y (n= 7) B. T6'F (n= 7-8). C. T6'V (n= 4-5). D. T6'M (n= 4). Symbols and error bars represent means \pm SEM.

Supplementary Figure 2. Linear correlation between ethanol and hexanol effects on $\rho 1 T6'$ mutants and different variables. Amino acid volume and effect for ethanol (panel A, p = 0.045) and hexanol (panel B, p = 0.18). Hydrophobicity and effect for ethanol (panel C, p = 0.40) and hexanol (panel D, p = 0.29). GABA EC₅₀ and effect for ethanol (panel E, p = 0.17) and hexanol (panel F, p = 0.04).

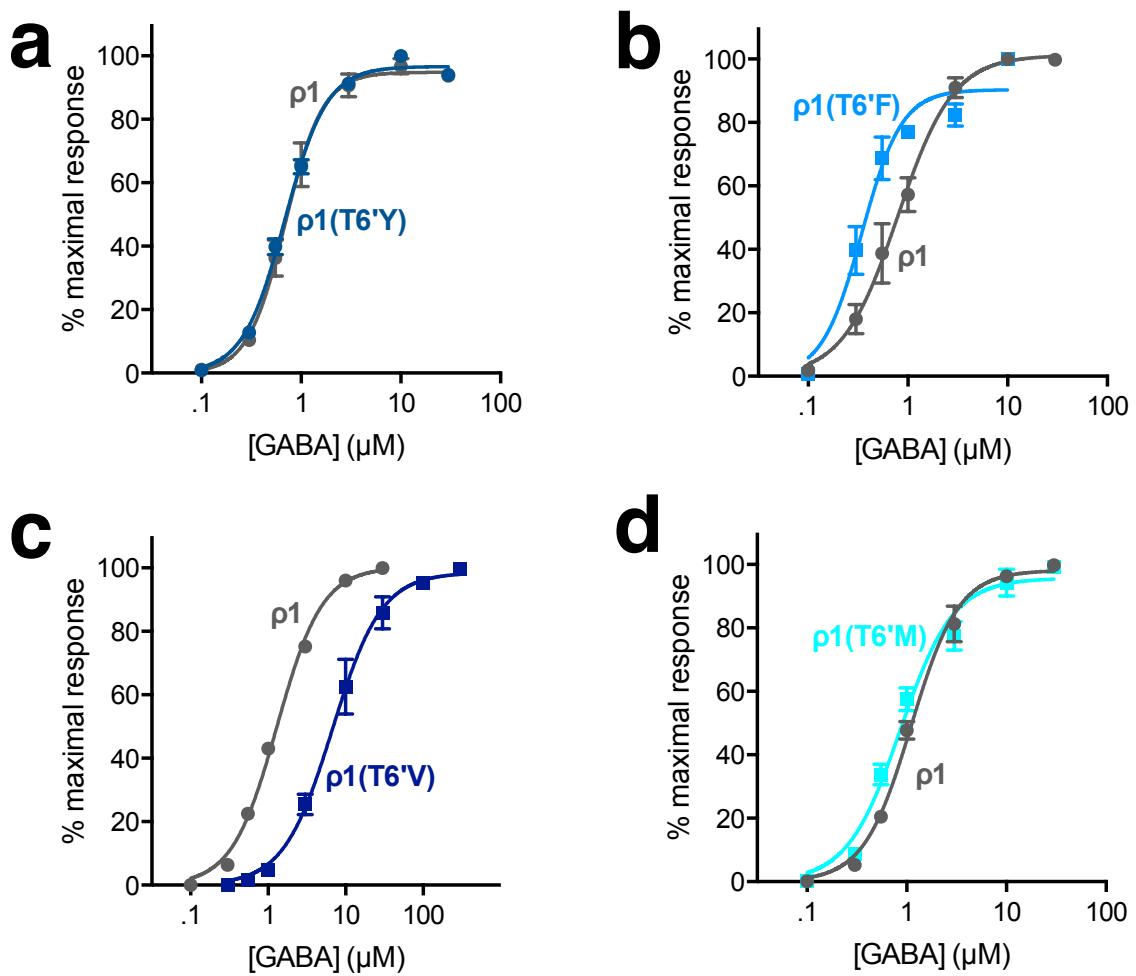
Supplementary Figure 3. $\rho 1I5'$ mutants: GABA concentration-response curves. A. I5'A (n= 7-9). B. I5'V (n= 6). C. I5'F (n= 4). D. I5'W (n= 3-4). Symbols and error bars represent means \pm SEM.

Supplementary Figure 4. Linear correlation between ethanol and hexanol effects on $\rho 1 I5'$ mutants and different variables. Amino acid volume and effect for ethanol (panel A, p = 0.22) and hexanol (panel B, p = 0.30). Hydrophobicity and effect for ethanol (panel C, p = 0.25) and hexanol (panel D, p = 0.02). GABA EC₅₀ and effect for ethanol (panel E, p = 0.30) and hexanol (panel F, p = 0.95).

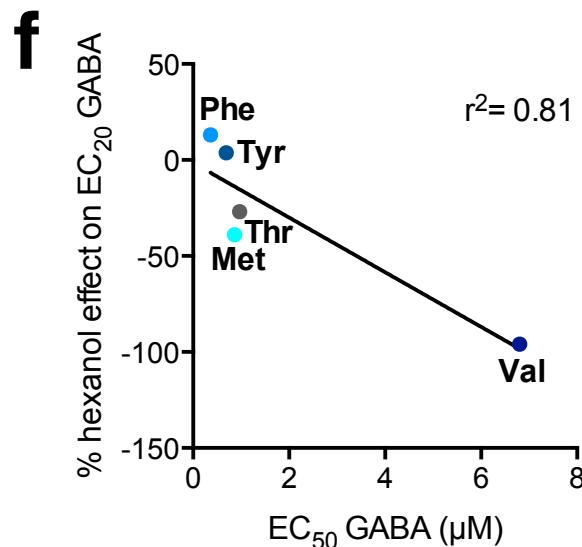
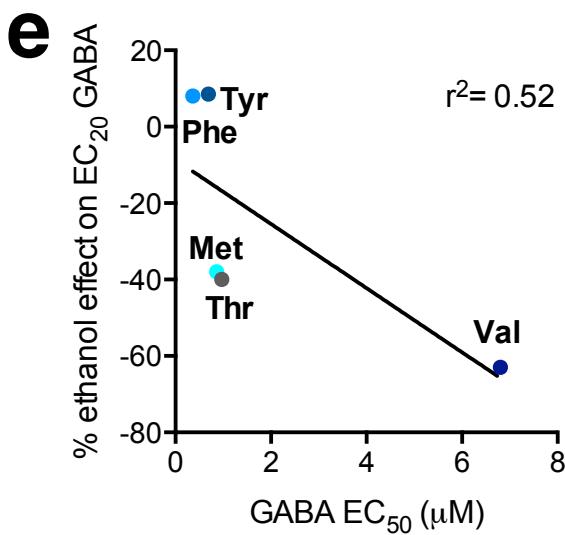
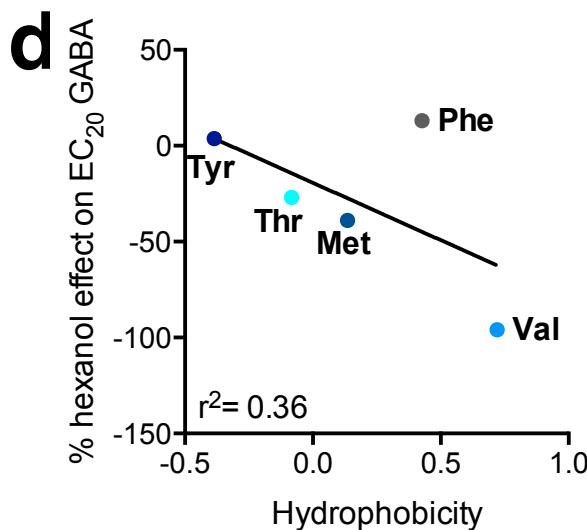
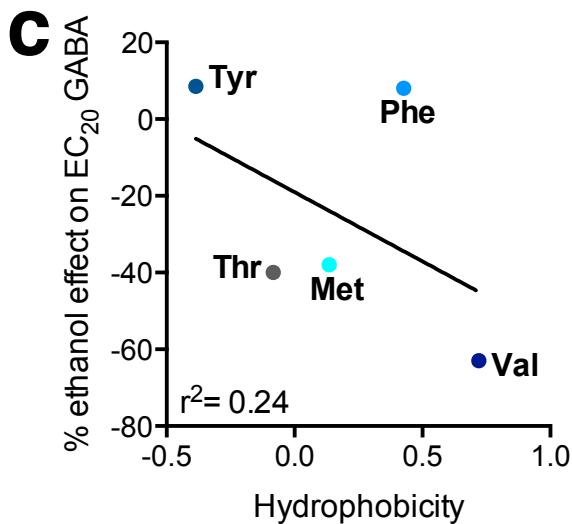
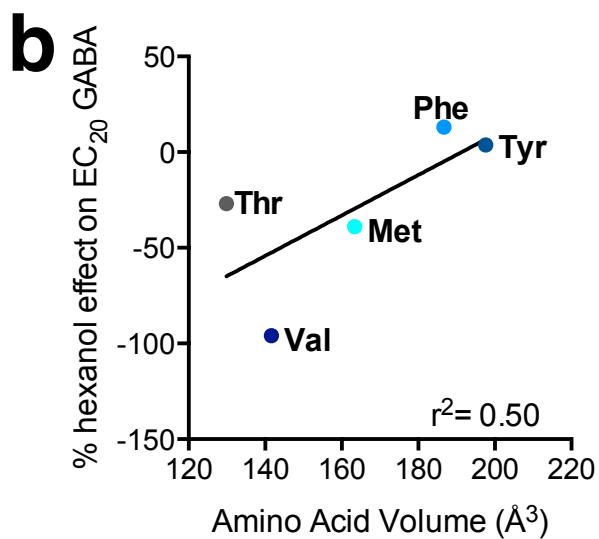
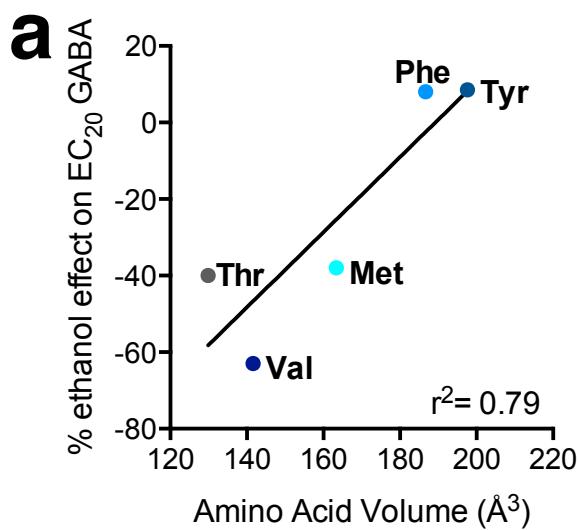
Supplementary Figure 5. Neighboring $\rho 1$ mutants in TM2 and TM1: GABA concentration-response curves. A. L9'F (n= 4-5). B. L3'F (n= 5). C. P2'G (n= 3-4). D. L277F (n= 4-6). Symbols and error bars represent means \pm SEM.

Supplementary Figure 6. $\rho 1T6'Y$ and/or $I15'S$ mutants: GABA concentration-response curves. Symbols represent means and bars indicate SEM (n= 6-13).

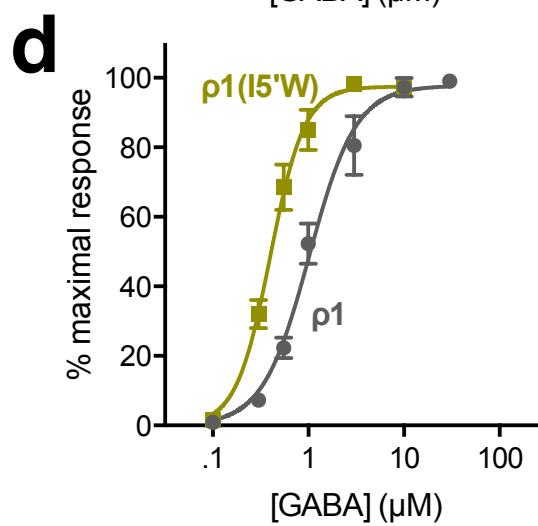
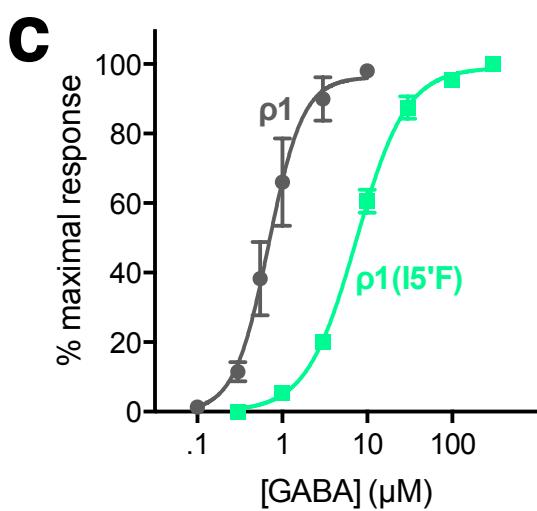
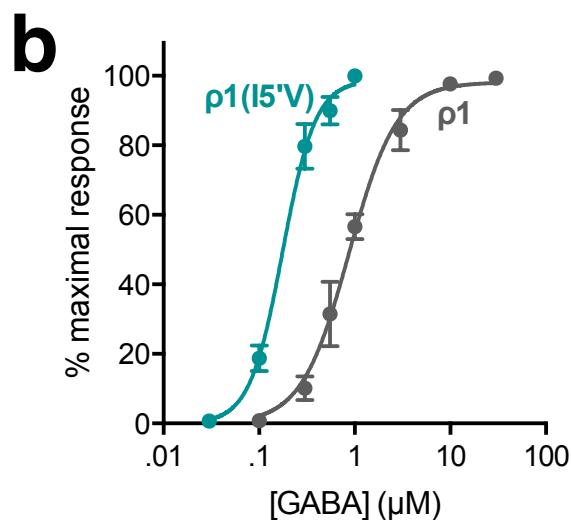
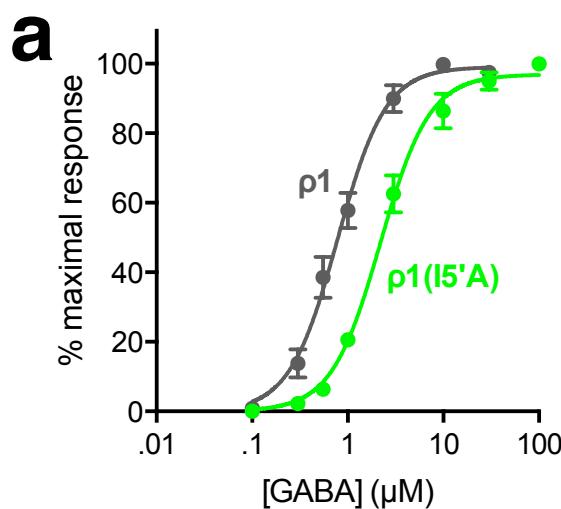
Supplementary Figure 1



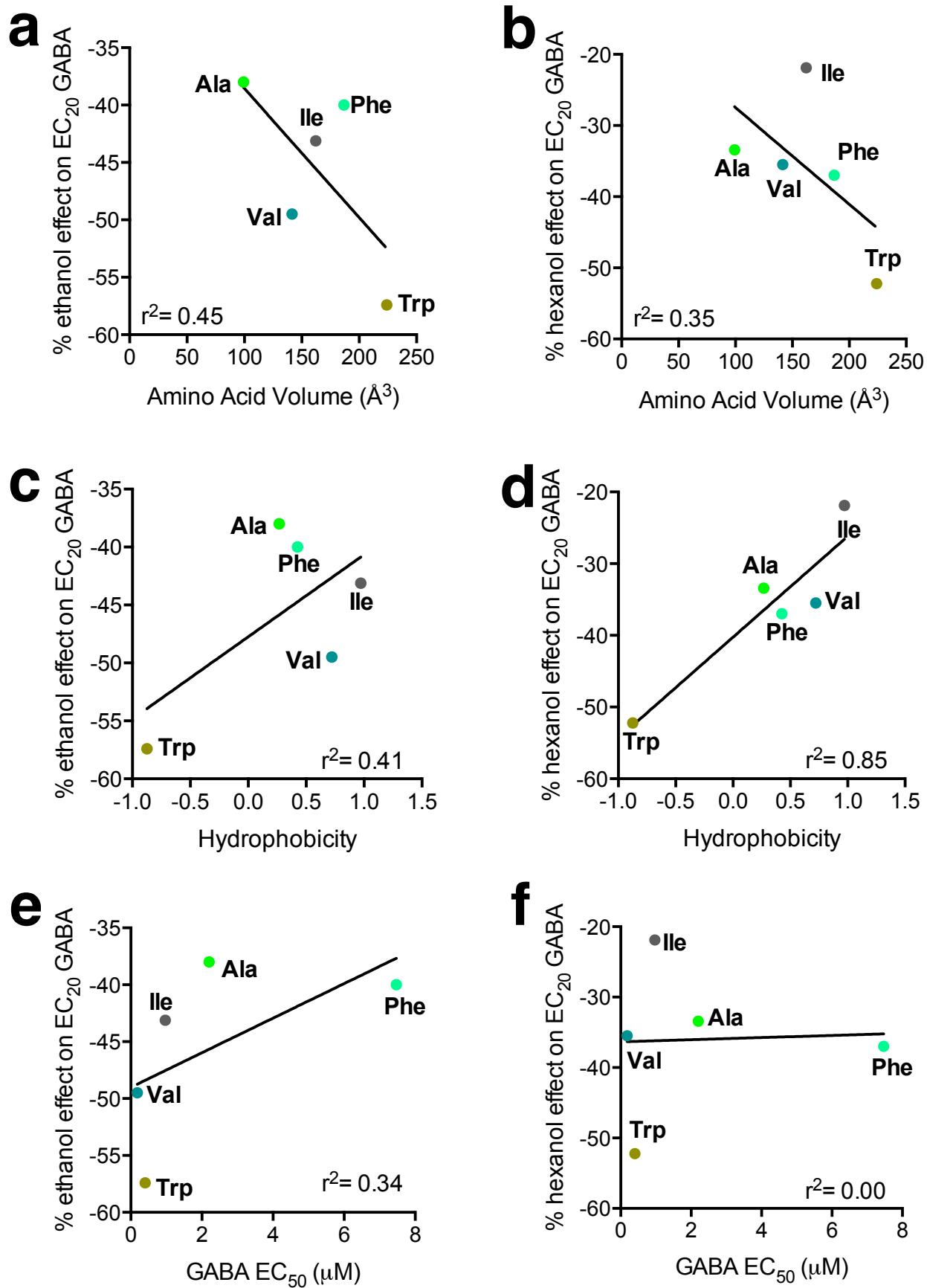
Supplementary Figure 2



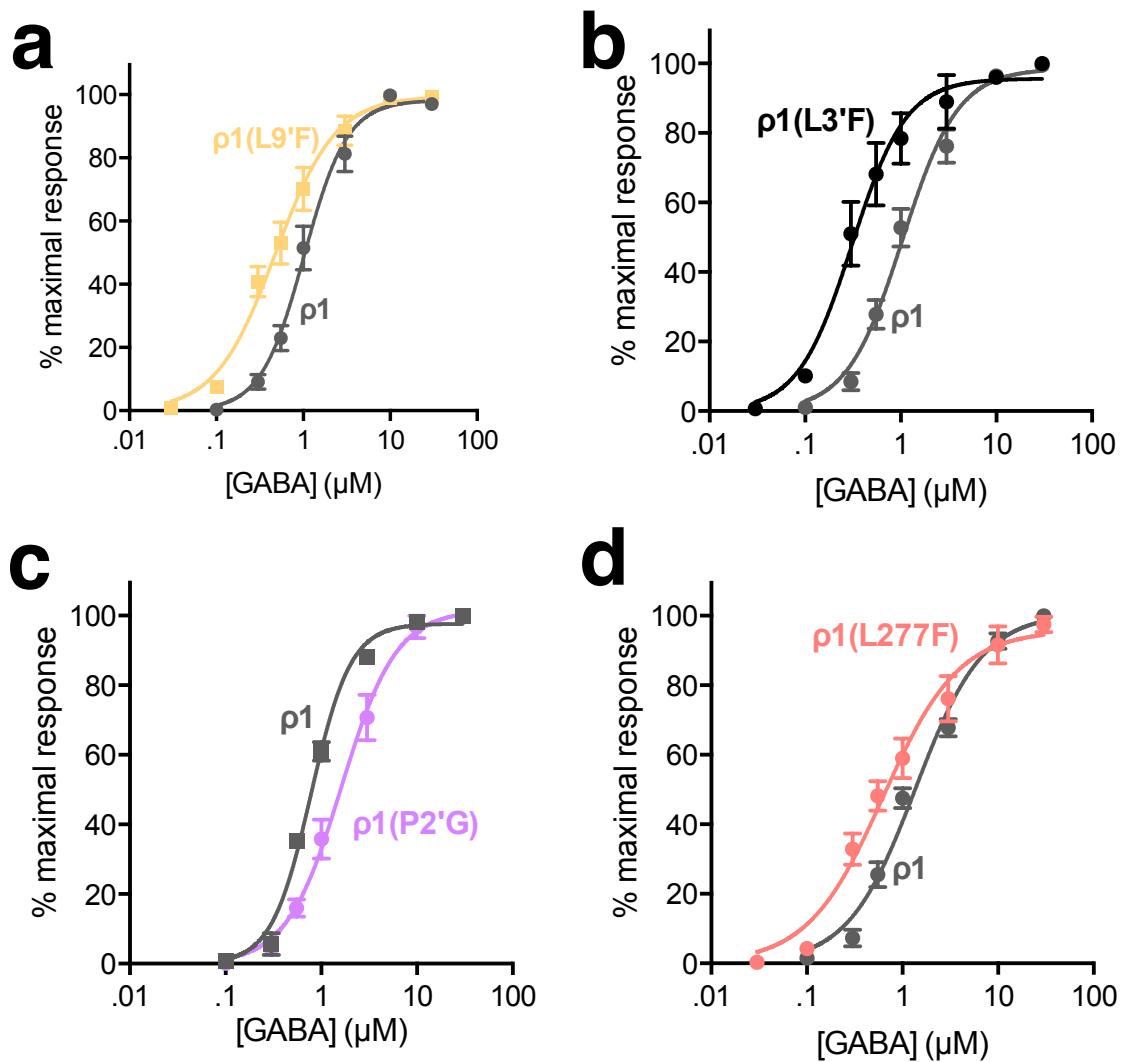
Supplementary Figure 3



Supplementary Figure 4



Supplementary Figure 5



Supplementary Figure 6

