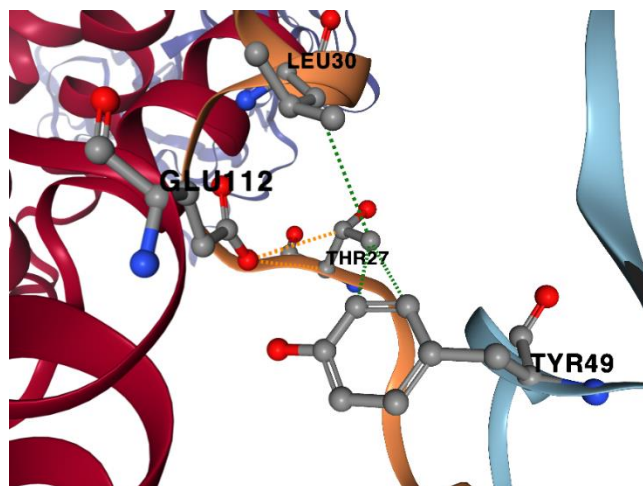
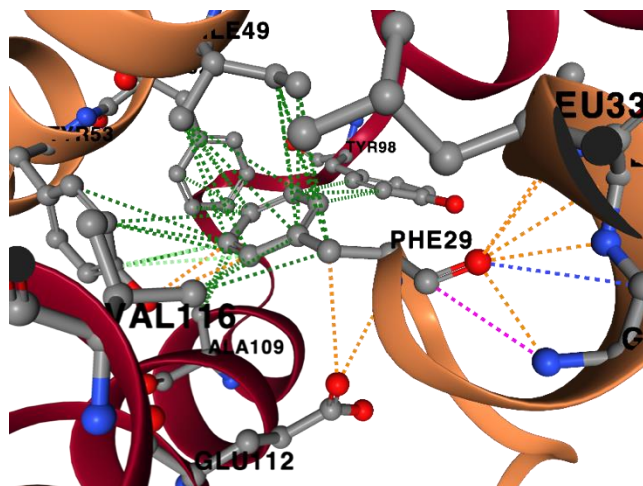


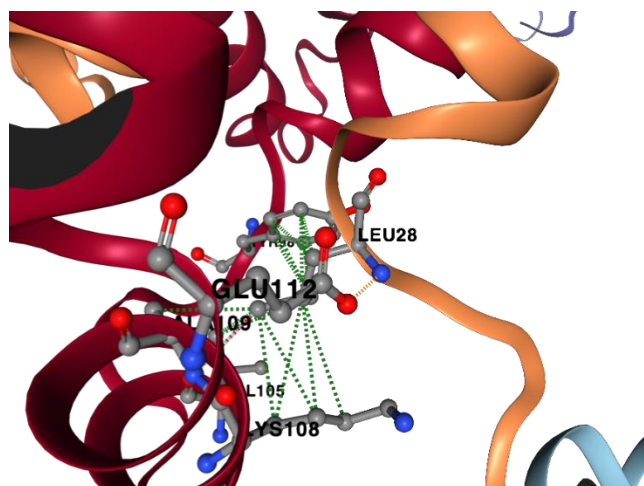
Supplementary Figures



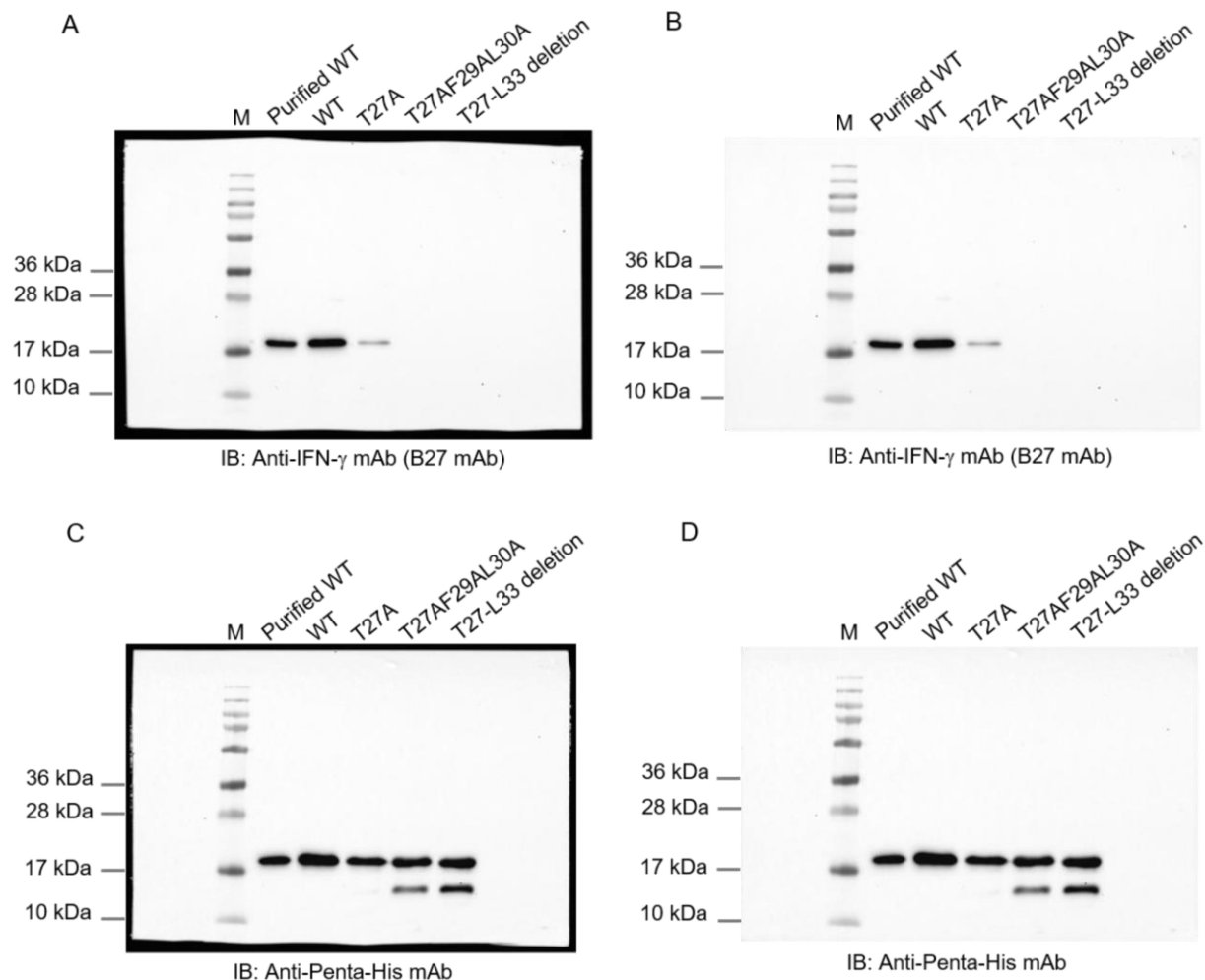
Supplementary Figure 1 Molecular bonding of IFN- γ THR27 (T27) and LEU30 (L30) of 1FG9 PDB complex. Chain A and B of IFN- γ are shown in orange and red, respectively. Blue designated chain D of IFN- γ receptor.



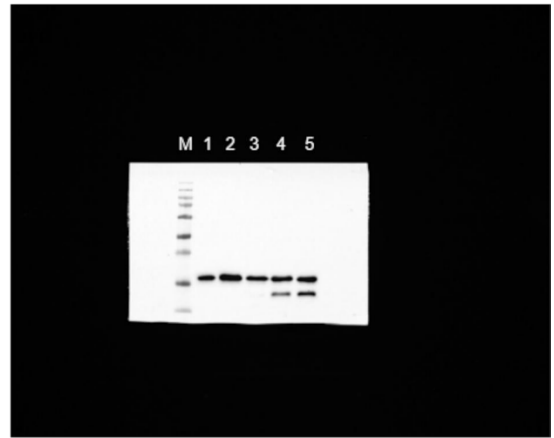
Supplementary Figure 2 Molecular bonding of IFN- γ PHE29 (F29) of 1FG9 PDB complex. Chain A and B of IFN- γ are shown in orange and red, respectively.



Supplementary Figure 3 Molecular bonding of IFN- γ LEU28 (L28) of 1FG9 PDB complex. Chain A and B of IFN- γ are shown in orange and red, respectively. Blue designated chain D of IFN- γ receptor.



Supplementary Figure 4 Binding activity of B27 mAb to IFN- γ WT and mutants. **(A, B)** Western blotting of B27 mAb with respect to purified IFN- γ WT, the soluble fractions containing IFN- γ WT, T27A, T27AF29AL30A, and T27-L33 deletion, respectively. **(C, D)** Anti-His tag antibody was used for indicating the IFN- γ in each soluble fraction.

AIB: Anti-IFN- γ mAb (B27 mAb)**B**

IB: Anti-Penta-His mAb

Supplementary Figure 5 Raw image of western blotting results from the ChemiDoc™ MP imaging system. **(A)** Protein bands obtained by B27 mAb reaction **(B)** Protein bands obtained by staining with anti-Penta-His antibody. M, protein molecular weight marker; lane 1, purified IFN- γ WT; lane 2-5, IFN- γ from bacterial soluble fractions including WT, T27A, T27AF29AL30A, and T27-L33 deletion, respectively.