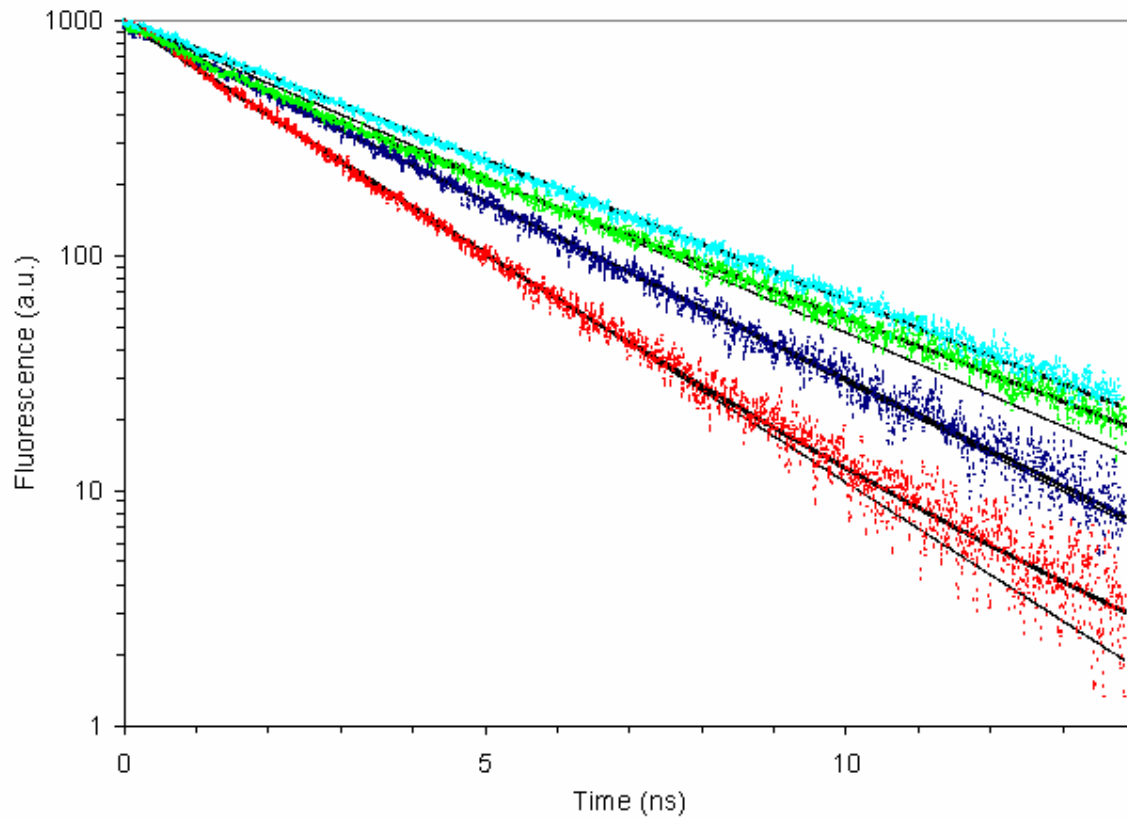


Supplementary Figure 3. Fluorescence lifetime analysis of BFP mutants for BFP (blue), BFP+F64L/V163A (red), A5 (green), Azurite (cyan). Lines indicate fit to monoexponential curve (thin) and double exponential (bold). Monoexponential and double exponential lines are indistinguishable for Azurite.



Clone	Monoexponential Fit		Double Exponential Fit				
	τ (ns)	χ^2_R	α_1	τ_1 (ns)	α_2	τ_2 (ns)	χ^2_R
BFP	2.82	0.61	0.97	2.87	0.03	1.00×10^{-9}	0.54
BFP(F64L/V163A)	2.21	0.61	0.04	4.39	0.96	2.10	0.45
A5	3.27	1.50	0.80	3.70	0.20	1.06	0.31
Azurite	3.65	0.29	1.00	3.65	0.00	9.17×10^{-4}	0.29