Name	ral characterization of YFP va	λabs (ε)	λ em (Φ)	pKa	<i>K</i> _d for Cl⁻ (mM)	K _{fold} (10 ⁻² s ⁻¹)	K _{ox} (10 ⁻³ s ⁻¹)	Relative fluorescence at 37°C
EYFP	-	515 (80.4)	528 (0.61)	6.9	110	0.39	2.53	1
EYFP-F46L	F46L	515 (78.7)	528 (0.61)	6.9	145	1.94	3.87	20
SEYFP	F64L/M153T/V163A/S175G	515 (101)	528 (0.56)	6.0	>104	6.60	2.36	3
SEYFP-F46L (Venus)	F46L/F64L/M153T/V163A/ S175G	515 (92.2)	528 (0.57)	6.0	>104	5.62	8.04	30

^aThe extinction coefficients (ε) (in the units of 10³ M⁻¹cm⁻¹) and quantum yields (Φ) were determined as described⁴. For pH titration, all buffers contained 35 mM Cl⁻, with adjustment of the ionic strength to 150 mM using potassium p-gluconate. Chloride titration was performed in 10 mM 4-morpholinepropanesulfonic acid (pH 7.0) containing specified [Cl⁻] ranging from 0 to 400 mM, and the ionic strength was adjusted to 400 mM with potassium p-gluconate. Relative fluorescence intensities in *Escherichia coli* at 37°C were calculated by adjustment of the fluorescence measurement by OD at 600 nm.