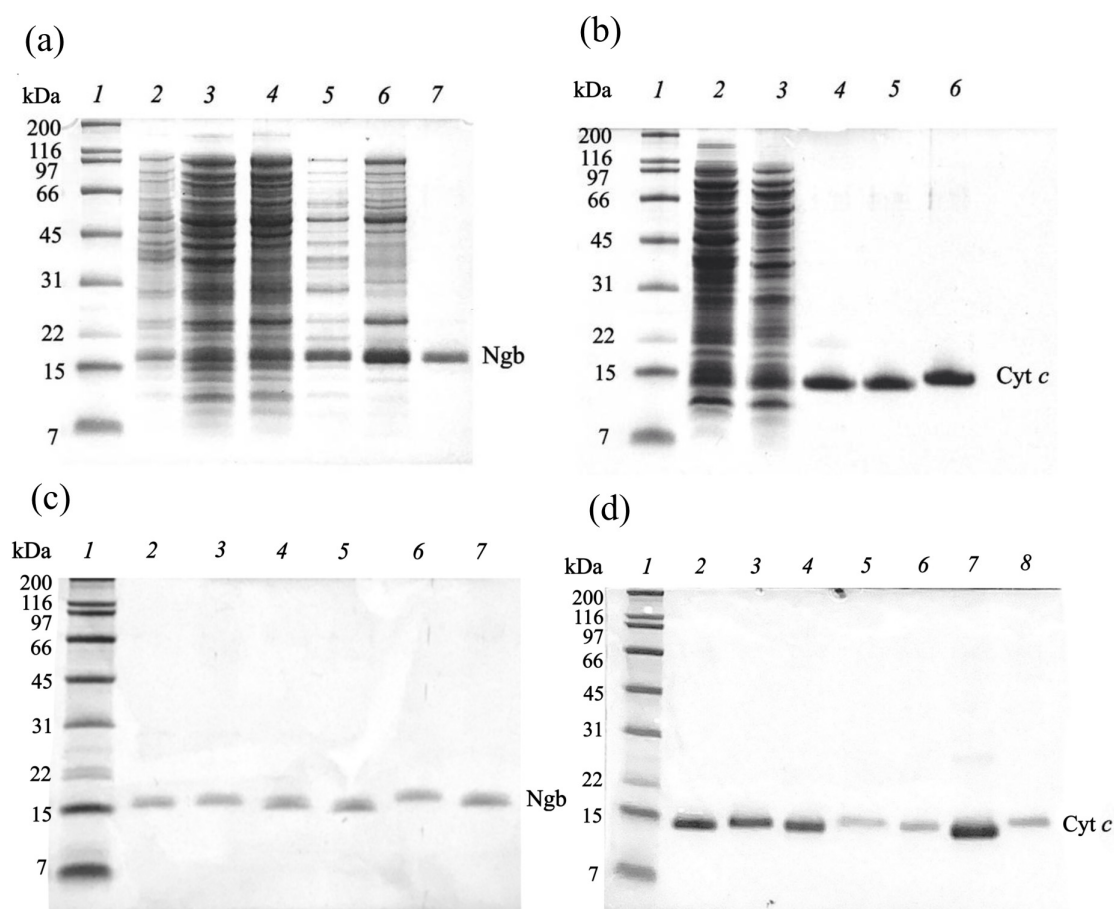
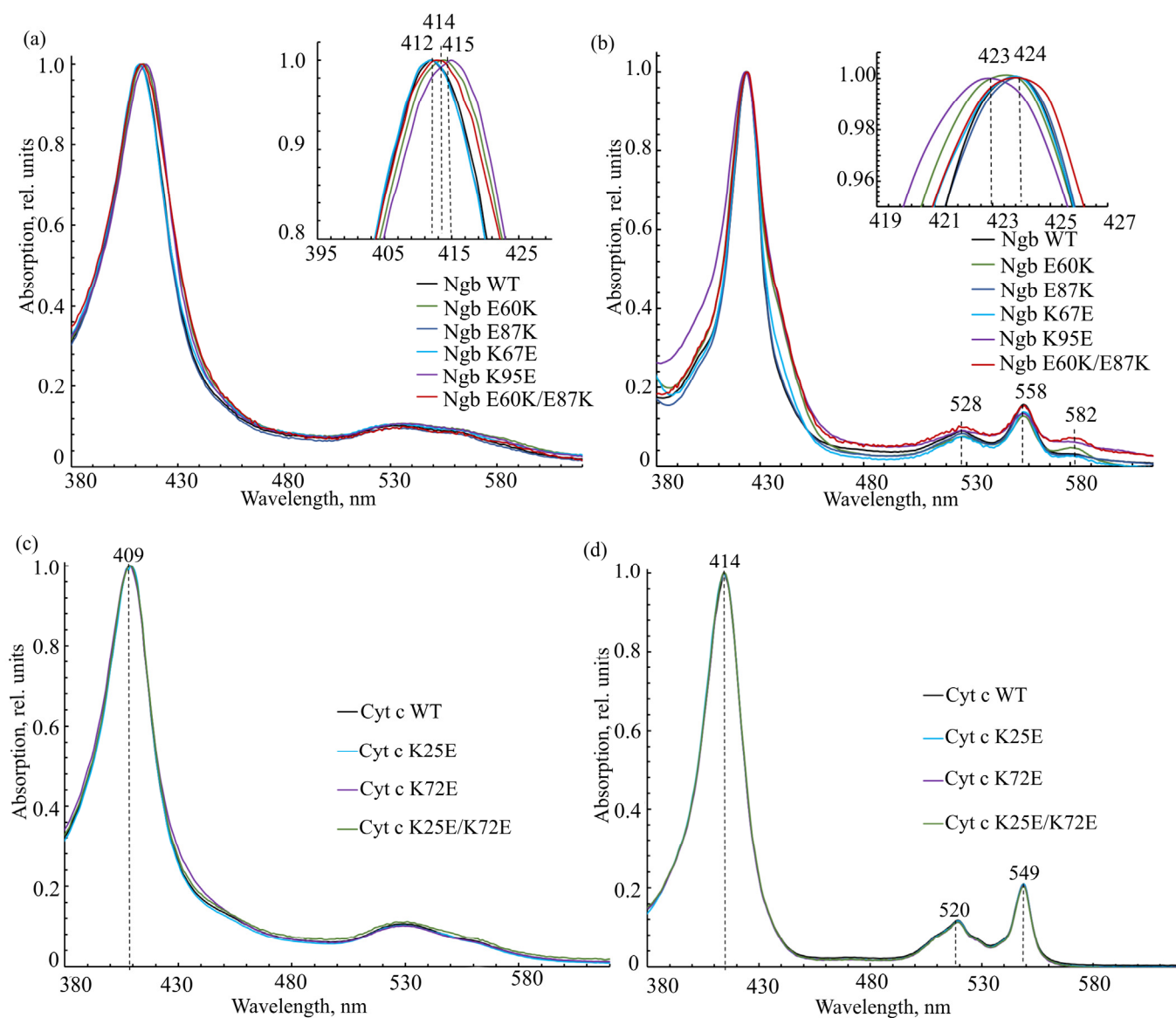


## Supplementary Materials



**Figure S1.** Electrophoretic analysis in 12% SDS-PAGE (Tris-Tricine buffer system) of the stages of isolation and purification of mutant (a) Ngb E60K/E87K: (1) molecular weight standard 7–200 kDa (Bio-Rad, USA); (2) total protein of cells of the producer strain at the end of expression; (3) soluble fraction of cell lysate after homogenization; (4) resuspended total protein after salting out; (5) combined fractions with Ngb after anion exchange chromatography; (6) combined fractions with Ngb after repeated salting out; and (7) purified protein preparation after gel filtration; (b) Cyt c K72E: (1) molecular weight standard 7–200 kDa (Bio-Rad, USA); (2) total protein of cells of the producer strain at the end of expression; (3) soluble fraction of cell lysate after homogenization; (4) combined fractions with Cyt c after cation exchange chromatography; (5) purified protein preparation after adsorption chromatography; (6) Cyt c WT; (c) purified Ngb preparations: (1) molecular weight standard 7–200 kDa (Bio-Rad, USA); (2) Ngb E60K; (3) Ngb E87K; (4) Ngb K67E; (5) Ngb K95E; (6) Ngb E60K/E87K; (7) Ngb WT; (d) purified Cyt c preparations: (1) molecular weight standard 7–200 kDa (Bio-Rad, USA); (2) Cyt c K25E; (3) Cyt c K72E; (4) Cyt c K25E/K72E; (5–7) Cyt c mutants that are not included in this study (M2, M4, 8Mut); (8) Cyt c WT



**Figure S2.** UV-vis absorption spectra of the (a) oxidized and (b) reduced forms of WT Ngb and its mutant variants and (c) oxidized and (d) reduced forms of WT Cyt *c* and its mutant variants