Supplementary Information

PvdO is required for the oxidation of dihydropyoverdine as last step of fluorophore formation in *Pseudomonas fluorescens* *

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*Running title: *Dihydropyoverdine oxidation by PvdO*

List of supplementary material:

Video S1: Morphing animation of the two homology-modelled structures of PvdO using either formylglycine generating enzyme (FGE) from *Streptomyces coelicolor* (PDB 2Q17) or PvdO from *Pseudomonas aeruginosa* (PDB 5HHA) as template. Residues that have been exchanged for alanine's in this study are highlighted in blue.

Figure S1: Activity measurement of PvdO and the $PvdO_{E260A}$ proteins in comparison to chemical autoxidation

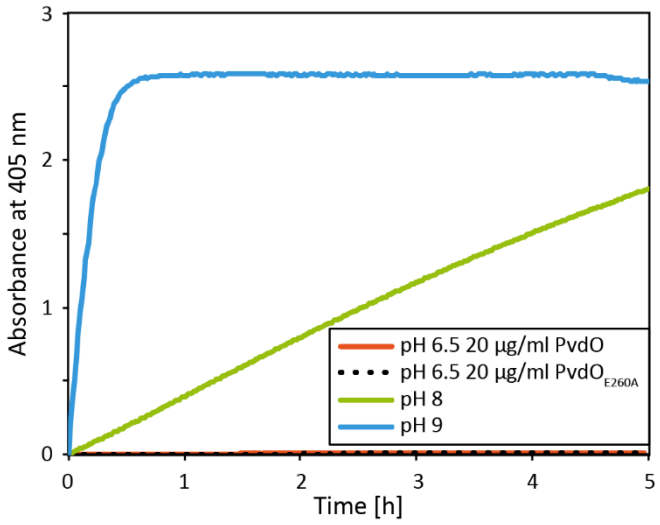

Figure S1: Activity measurement of PvdO and the $PvdO_{E260A}$ proteins in comparison to chemical autoxidation. The purified PvdO and $PvdO_{E260A}$-proteins were tested for activity *in vitro* at pH 6.5 (as described in the methods section), under the same measurement conditions used for the chemical autoxidation that is shown for comparison (pH 8 and pH 9). Note that at pH 6.5 no autoxidation occurs and that there is no detectable *in vitro* activity of PvdO as purified. All values are corrected for blank measurements and the first measurement point was set to 0.