Supporting Information

A subtle structural change in the distal haem pocket has a remarkable effect on tuning hydrogen peroxide reactivity in dye decolourising peroxidases from *Streptomyces lividans*

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**Figure S1:** Amino acid sequence alignment of DtpA and DtpAa from *Streptomyces lividans*. ESPript 3.0\(^1\) was used to generate the alignment and calculate a sequence identity of 43.09 % as indicated by residues in a red box. Secondary structure elements as determined from the respective X-ray structures of DtpA and DtpAa are also depicted.
Figure S2: Absorbance spectra of the Asp variants at pH 7.0. A) The D251A DtpA variant and B) the D239A DtpAa variant. The black spectra indicates the ferric form and the red spectra following addition of one molar equivalent of H₂O₂. Insets show a close-up of the Q-bands.
REFERENCES