

CORRECTION

# Correction: Engineering of Recombinant Poplar Deoxy-D-Xylulose-5-Phosphate Synthase (*PtDXS*) by Site-Directed Mutagenesis Improves Its Activity

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[S1 Fig](#), [S2 Fig](#) and [S3 Fig](#) are the incorrect versions of these files. Please view the correct versions below.

## Supporting Information

**S1 Fig.** A. Zoomed in surface view of the orientation of Ala-147 residue of *WTPtDXS* and the thiazolium ring of ThDP in the enzyme active site. B. Cartoon view of the interactions of different residues of *WTPtDXS* with ThDP and their relevant distances from the thiazolium ring and the carbon chain of ThDP.

(PDF)

**S2 Fig. SDS-PAGE of the different fractions from the Ni-NTA column purification of recombinant WT and the various mutants of *PtDXS*.** For WT panel, lane 1–3: elution fraction containing 50 mM imidazole; lane 4–5: elution fraction containing 100 mM imidazole; lane 6–7: elution fraction containing 150 mM imidazole. For A147G panel, lane 1: flow-through; lane 2–4: wash fraction containing 10 mM imidazole; lane 5–6: elution fraction containing 250 mM imidazole, lane 7: blank. For A352G panel and A147G/A352G panel, lane 1–2: elution fraction containing 50 mM imidazole; lane 3–4: elution fraction containing 100 mM imidazole; lane 5–6: elution fraction containing 150 mM imidazole; lane 7: elution fraction containing 200 mM imidazole. L: protein marker. The molecular weight of WT and all the mutant enzymes is ~73 kDa.

(PDF)

**S3 Fig. Michaelis-Menten plots for WT and different mutants of *PtDXS* in presence of each of the substrates.** Each data point represents mean, error bars represent S.E. (n = 3). Different symbols represent the experimental data points. The solid lines represent the fitted curves. Black, red, blue, and pink represent the activity of WT, A147G, A352G and A147G/A352G *PtDXS* respectively.

(PDF)

## Reference

1. Banerjee A, Preiser AL, Sharkey TD (2016) Engineering of Recombinant Poplar Deoxy-D-Xylulose-5-Phosphate Synthase (*PtDXS*) by Site-Directed Mutagenesis Improves Its Activity. PLoS ONE 11(8): e0161534. doi: [10.1371/journal.pone.0161534](https://doi.org/10.1371/journal.pone.0161534) PMID: [27548482](https://pubmed.ncbi.nlm.nih.gov/27548482/)



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