

1 **Supplementary Information**

2 **Identification and Characterization of a Novel Gentisate**

3 **1,2-Dioxygenase Gene from a Halophilic *Marteella* Strain**

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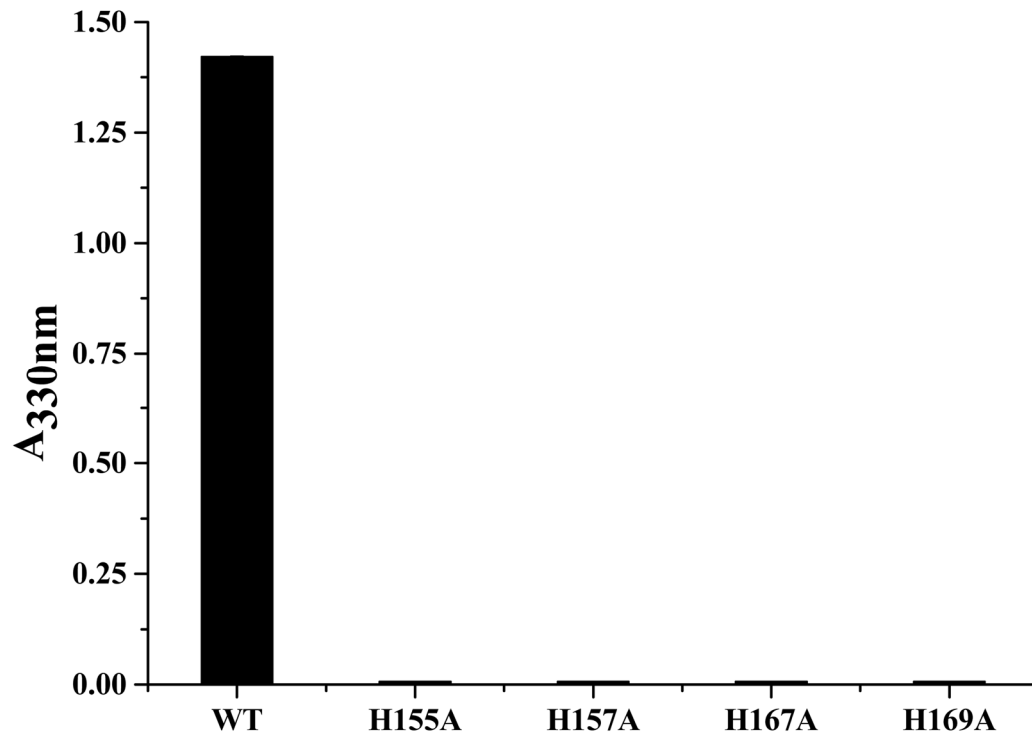
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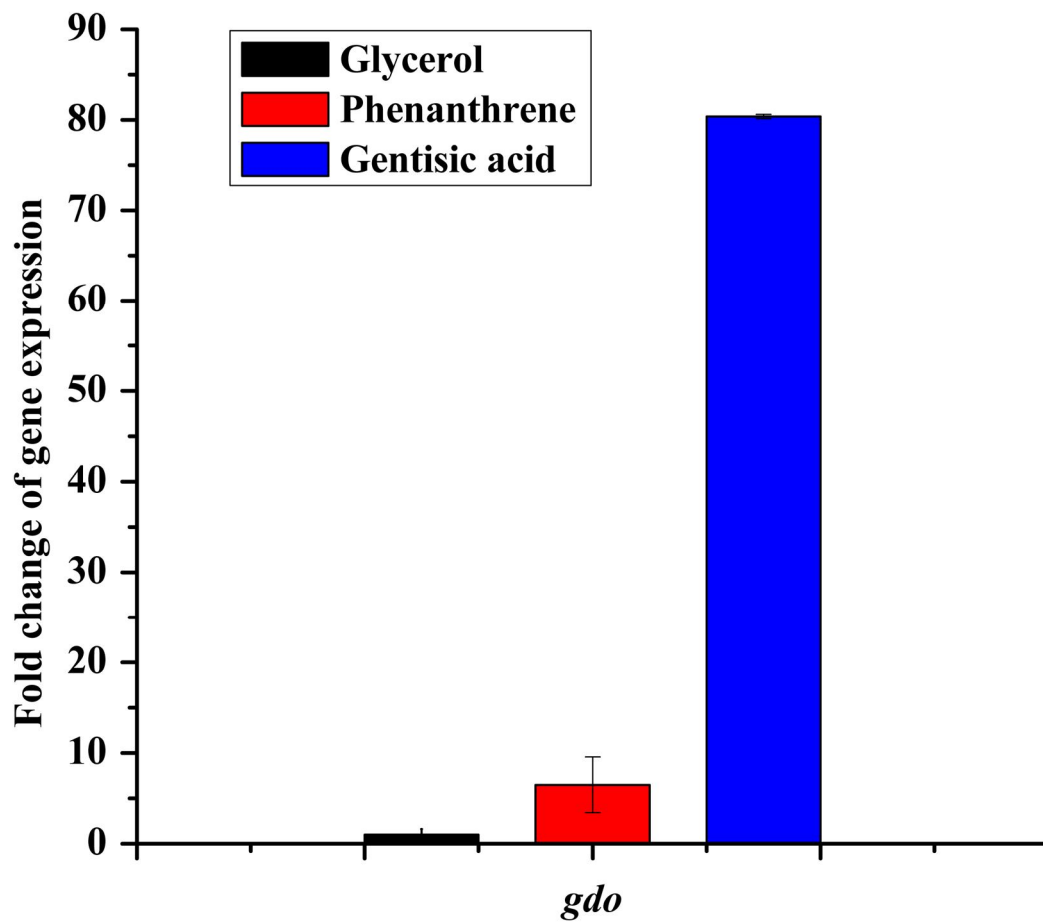


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26 **Fig. S1. Enzyme assay for the four mutant proteins.** All mixtures of the purified proteins and
27 substrates were incubated at 30°C. Control, wild type protein; H155A, H157A, H167A, and
28 H169A mutant proteins. Reaction consisted of 1 μ l wild type or mutant protein in the reaction
29 mixture (1 ml total volume, containing 0.46 mM gentisate in 0.1 M phosphate buffer, pH 7.4).

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34 **Fig. S2. RT-qPCR analysis of the expression level of gene *gdo*.** The plot shows expression

35 level of gene *gdo* in different medium: black, glycerol medium; red, phenanthrene medium;

36 blue, gentisic acid medium. Bars show the average error.