Supplementary Materials: Functional and Biochemical Characterization of Three Recombinant Human Glucose-6-Phosphate Dehydrogenase Mutants: Zacatecas, Vanua-Lava and Viangchan

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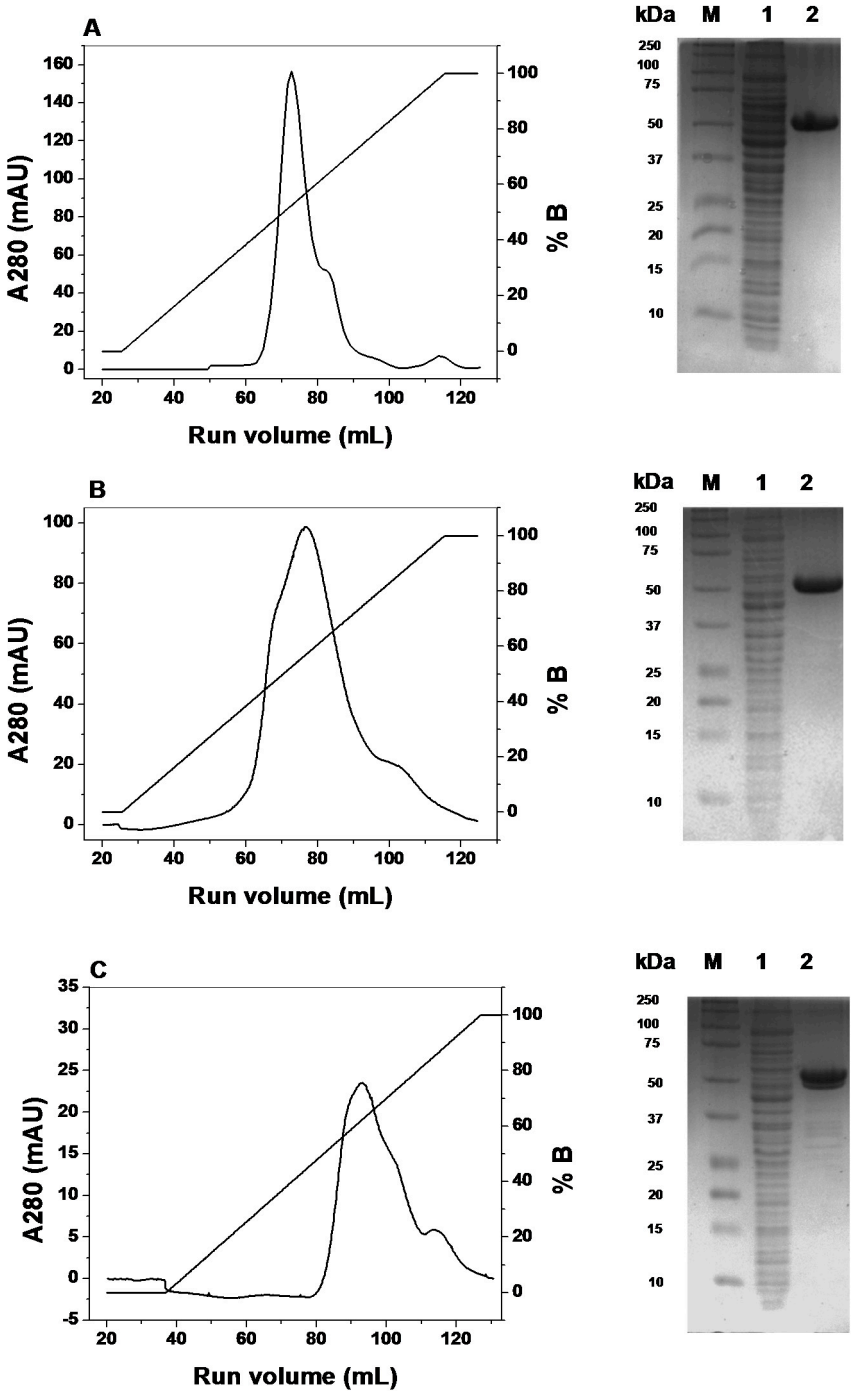

Figure S1. *Cont.*

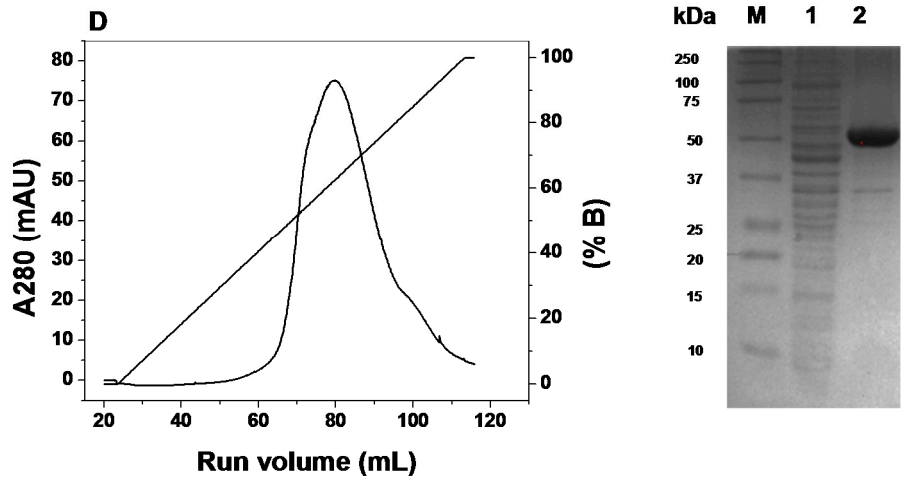

Figure S1. Purification and sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE) of the recombinant human glucose-6-phosphate dehydrogenase (G6PD) enzymes. Chromatogram from purification (**A**) Wild Type glucose-6-phosphate dehydrogenase (WTG6PD); (**B**) G6PD Zacatecas; (**C**) G6PD Vanua-Lava and (**D**) G6PD Viangchan by cation exchange columns using the ÄKTA Prime Plus system (Piscataway, NJ, USA). Protein loading, the column was washed with 5-bed column volumes in 50 mM phosphate buffer at pH 7.35; flow rate: 2.0 mL/min. The proteins were eluted by a linear concentration (0–0.35 M) gradient of NaCl in the starting buffer. SDS-PAGE analysis of purified enzymes. M: molecular weight marker Broad Range SDS-PAGE standards from Biorad; Lane 1, crude extract; Lane 2, eluted fraction. Each lane was loaded with 10 μg of protein and stained by Coomassie brilliant blue R-250.