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### **ACCEPTED MANUSCRIPT**

# Mutations in Algal and Cyanobacterial Photosystem I that Independently Affect the Yield of Initial Charge Separation in the Two Electron Transfer Cofactor Branches

Syed Lal Badshah<sup>a</sup>, Junlei Sun<sup>b</sup>, Sam Mula<sup>c</sup>, Mike Gorka<sup>b</sup>, Patricia Baker<sup>a</sup>, Rajiv Luthra<sup>a</sup>, Su

Lin<sup>a</sup>, Art van der Est<sup>c</sup>, John H. Golbeck<sup>b</sup>, and Kevin E. Redding<sup>a</sup>

<sup>a</sup>School of Molecular Sciences, Arizona State University, Tempe, AZ, 85287 USA. <sup>b</sup>Department of Biochemistry and Molecular Biology and Department of Chemistry, The Pennsylvania State University, University Park, PA 16802 USA. <sup>c</sup>Department of Chemistry, Brock University, St. Catharines, ON Canada, L2S 3A1.

#### Short title: Mutations Near the ec2 Accessory Chlorophylls of Photosystem I

Corresponding authors: Kevin Redding School of Molecular Sciences, Arizona State University 1711 S Rural Rd, Box 871604 Tempe, AZ, 85287-1604, USA 1(480)965-0136 Kevin.Redding@asu.edu John H. Golbeck

Department of Biochemistry and Molecular Biology The Pennsylvania State University University Park, PA 16802, USA 1(814)865-1163 jhg5@psu.edu Download English Version:

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