

Supporting information

**Coupling of electron transfer and proton uptake in the reaction center mutant L210DN
from *Rhodobacter sphaeroides***

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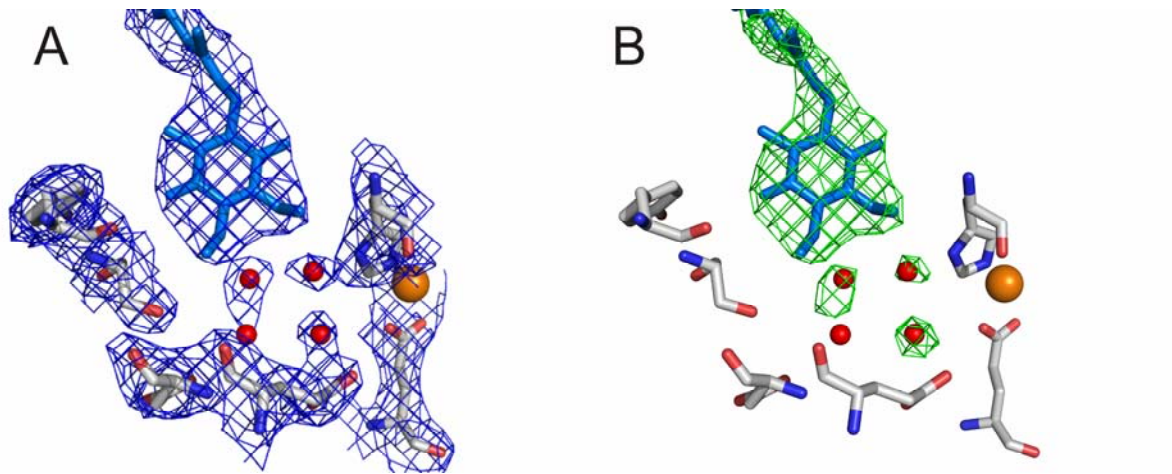


Figure S1: A: Electron density in the proximity of Q_B of the Asp210 to Asn mutant in the L-subunit of the reaction center of *Rhodobacter sphaeroides* at a resolution of 2.5 Å. Amino acid residues are represented as grey sticks, ubiquinone Q_B is represented as blue sticks. A: The blue mesh shows the electron density for the refined model contoured at 1.0σ. B: For a simulated-annealing omit map Q_B and the 4 shown water molecules were omitted. Difference electron density with a contour level 2.5σ is illustrated in green.