

Supplemental Information for:
**The NMR Solution Structure and Function of RPA3313: A Conserved
Protein from *Rhodopseudomonas palustris***

Jonathan Catazaro, Austin J. Lowe, Ronald L. Cerny, and Robert Powers*

Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE, 68588-0304

USA

TABLE OF CONTENTS

Figure S-1. A 2D ^1H - ^{15}N HSQC NMR spectrum of RPA3313 with peaks labeled according to their respective residue numbers or side-chain identification. Unlabeled peaks correspond to the 6x His tag, which was not included in the structure generation or analysis.

Figure S-2. Plot of the size exclusion chromatogram of RPA3313. The purified protein was run on a Superdex 75 gravity flow column to determine the oligomeric state of the protein. Only a single peak for the monomer of RPA3313 was observed.

Figure S-3. Intact mass analysis using ESI-MS of RPA3313 from Figure 1. ESI-MS confirms the major state of RPA3313 is a monomer.

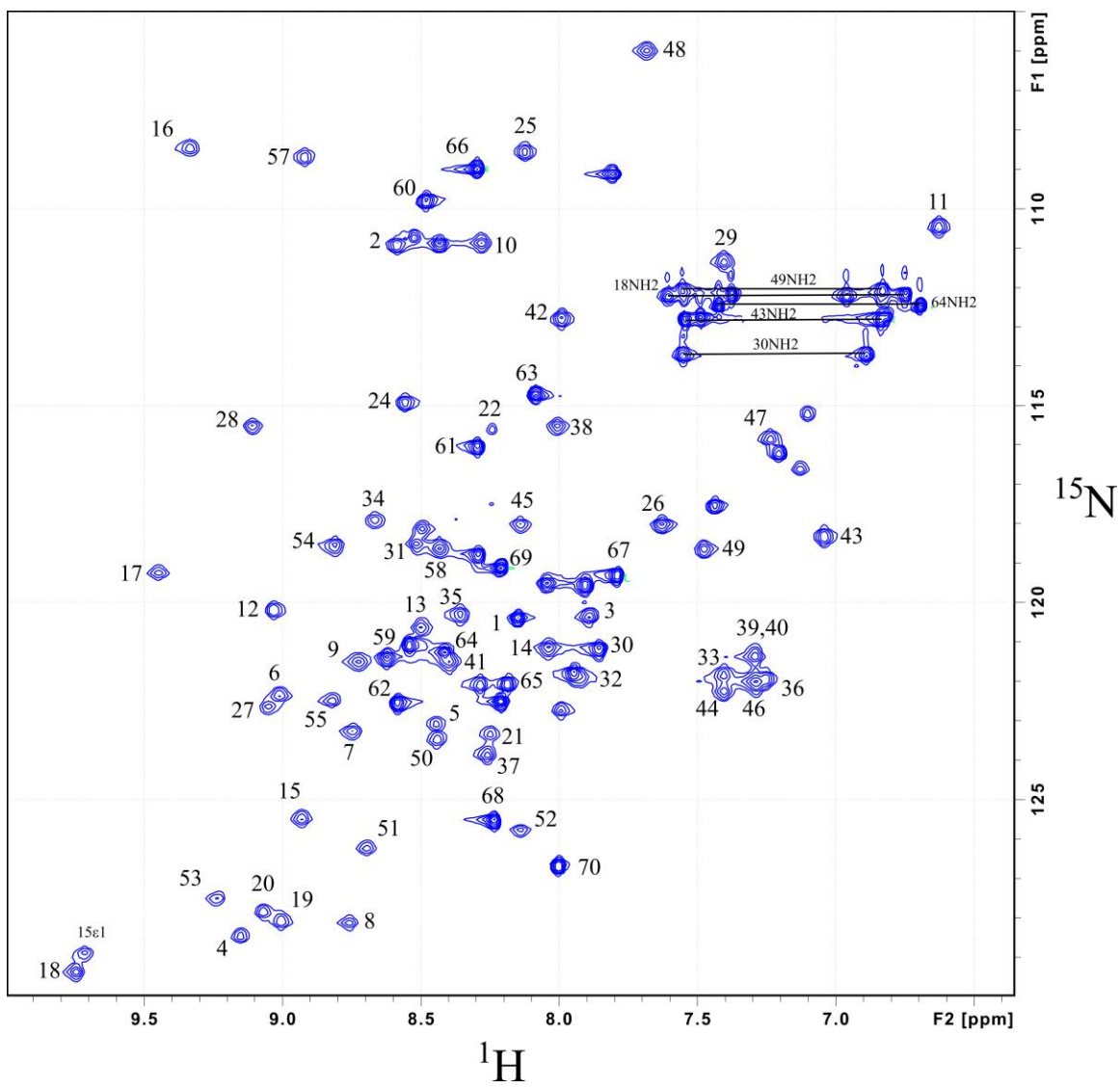


Figure S-1

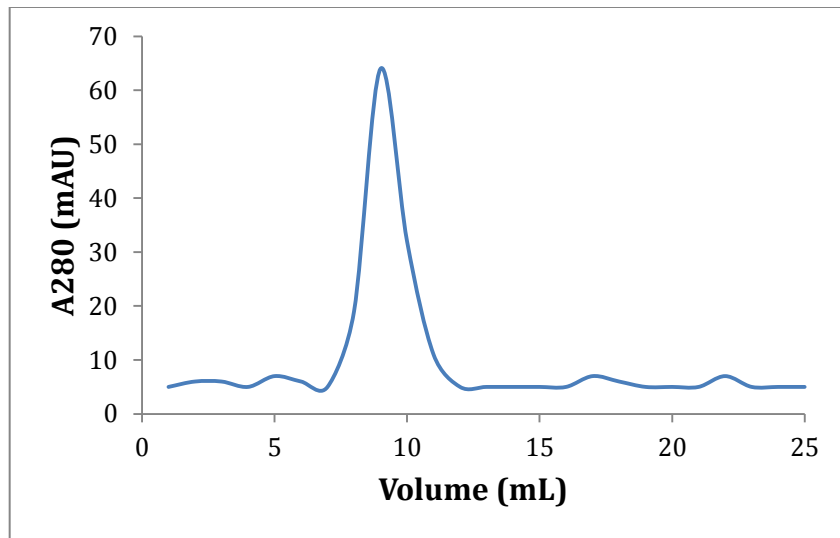


Figure S-2

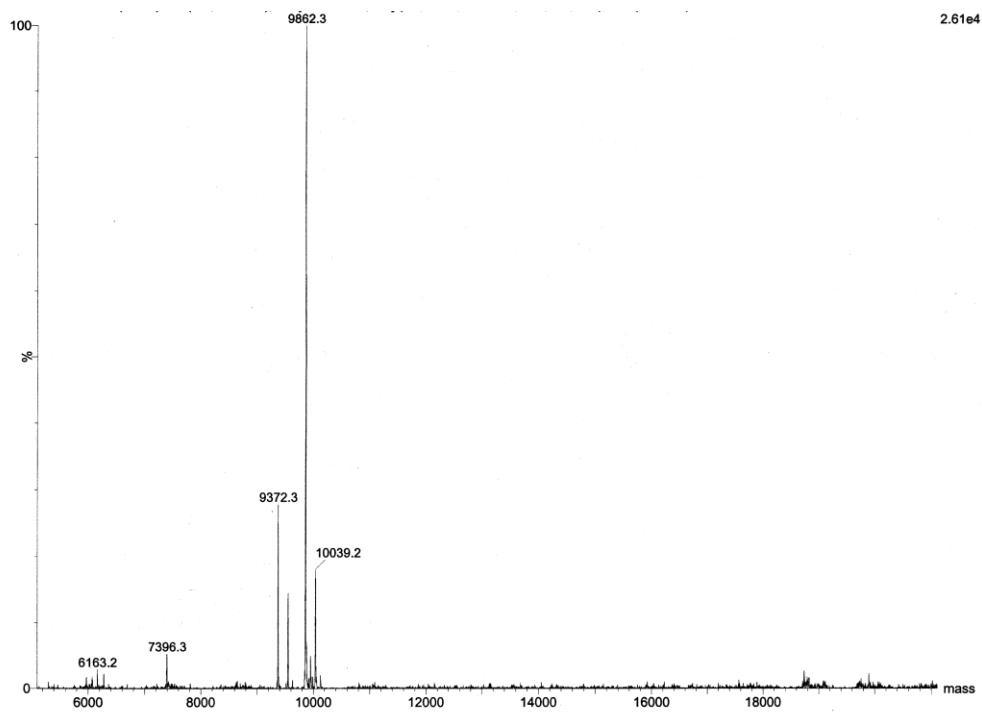


Figure S-3