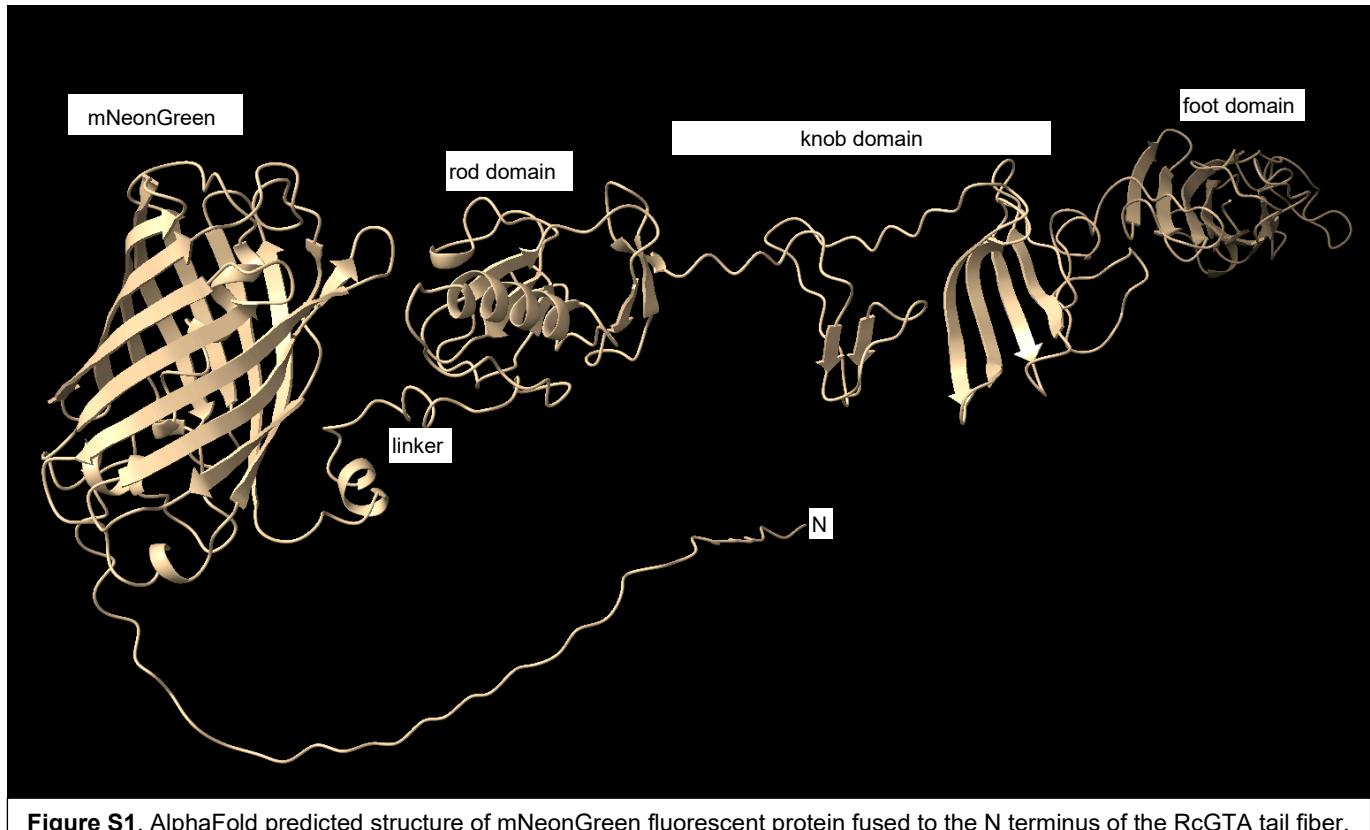
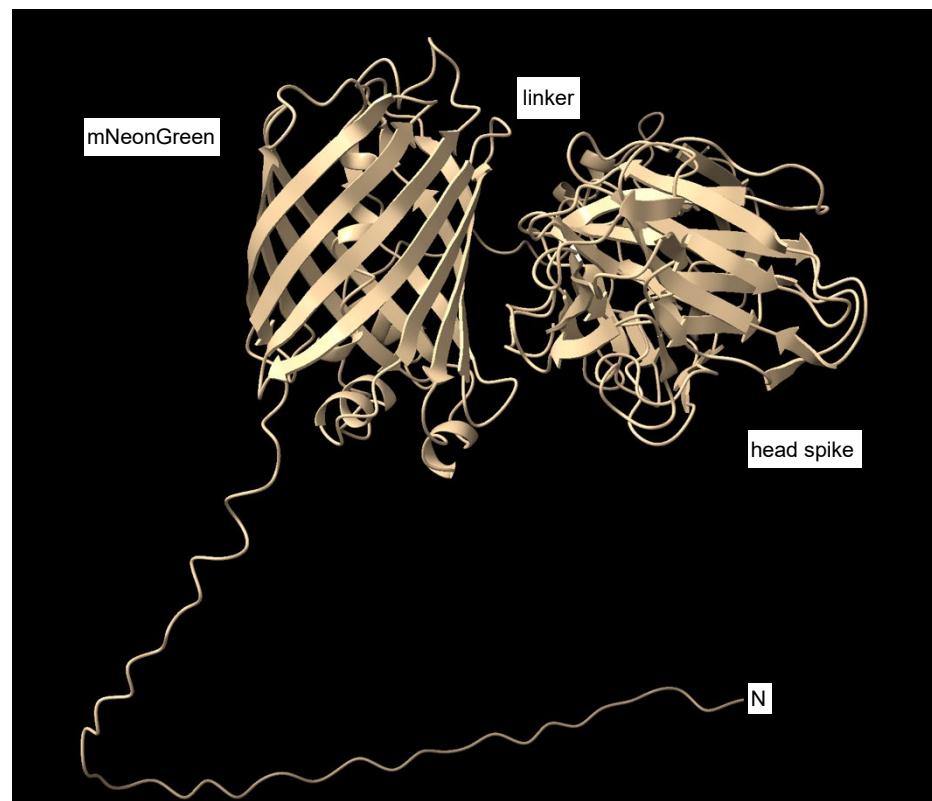


**Table S1.** E-values of top hits in BLASTp analysis of the 37b4 genome using WT strain SB1003 homologues of cosmid pCPS1-encoded protein sequences as queries, and reciprocal BLASTp hits.

SB1003 query locus/gene name	37b4 top hit locus/gene name (E-value)	reciprocal blast hit SB1003 locus/gene name (E-value)
<i>rcc01067</i>	none	N/A
<i>rcc01068</i>	none	N/A
<i>rcc01069</i>	none	N/A
<i>rcc01070</i>	none	N/A
<i>rcc01071</i>	none	N/A
<i>rcc01072/hutH</i>	none	N/A
<i>rcc01073/gvpA</i>	none	N/A
<i>rcc01074</i>	none	N/A
<i>rcc01075</i>	<i>rcc01834/mcpH</i> (5E-76)	<i>rcc01726/mcpH</i> (0)
<i>rcc01076</i>	none	N/A
<i>rcc01077</i>	<i>rcc01848</i> (2E-48)	<i>rcc01077</i> (6E-61)
<i>rcc01078</i>	<i>rcc01849</i> (5E-50)	<i>rcc01078</i> (2e-44)
<i>rcc01087/pip2</i>	<i>rcc01521/pip</i> (0.001)	<i>rcc02274/pip</i> (0)
<i>rcc01088</i>	<i>rcc02269</i> (9E-09)	<i>rcc01508</i> (4e-145)
<i>rcc01079</i>	<i>rcc02299</i> (5E-05)	<i>rcc00962</i> (3E-41)
<i>rcc01080</i>	none	N/A
<i>rcc01081</i>	<i>rcc01327</i> (2E-04)	none
<i>rcc01082</i>	none	N/A
<i>rcc01083/lsp1</i>	<i>rcc02081</i> (0) <i>rcc00179</i> (5E-29)	<i>rcc01952/lsp1</i> (0)
<i>rcc01084</i>	none	N/A
<i>rcc01085</i>	none	N/A
<i>rcc01086</i>	<i>rcc03284</i> (0)	<i>rcc03089</i> (0)
<i>rcc01932</i>	<i>rcc02060</i> (E-174)	<i>rcc01932</i> (0)
<i>rcc01958/wzc</i>	<i>rcc02087</i> (0)	<i>rcc01958/wzc</i> (0)
<i>rcc01959/wzb</i>	<i>rcc02088</i> (2E-83)	<i>rcc01959/wzb</i> (0)
<i>rcc01960/wza</i>	<i>rcc02089</i> (0)	<i>rcc01960/wza</i> (0)
<i>rcc00197/comF</i>	<i>rcc00201</i> (5E-132)	<i>rcc00197/comF</i> (3E-122)
<i>rcc00460/comM</i>	<i>rcc00465</i> (0)	<i>rcc00460/comM</i> (0)
<i>rcc03098/dprA</i>	<i>rcc03293</i> (0)	<i>rcc03098/dprA</i> (8E-134)
<i>rcc01751/recA</i>	<i>rcc02029</i> (0)	<i>rcc01751/recA</i> (0)
<i>rcc00222/radC</i>	<i>rcc00227</i> (0)	<i>rcc00222/radC</i> (0)



**Figure S1.** AlphaFold predicted structure of mNeonGreen fluorescent protein fused to the N terminus of the RcGTA tail fiber.



**Figure S2.** AlphaFold predicted structure of mNeonGreen fluorescent protein fused to the N terminus of the RcGTA head spike fiber.