**Table S1: Prevalence of homopolymers in essential genes and genes functionally related to the composition of the cell envelope.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Genes | Total number of genes | Genes containing large homopolymers (≥7xN) | Proportion | Fisher's Exact Test one-tailed (*P*-value) |
| All | 5677 | 85 | 0.015 |  |
| Essential | 335 | 1 | 0.003 | 0.0370 |
| Cell wall / LPS / Capsulea | 179 | 9 | 0.050 | 0.0017 |

a Genes belonging to PseudoCap Function Class “Cell wall / LPS / Capsule”