Supplementary Table S1

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| **The computed phosphate interaction energies at the PYK allosteric sites** |
| **PYK origin\*** | **Most favorable interaction energy [kcal/mol]** |
|  | **1’Pibs** | **6’Pibs** |
| *Saccharomyces cerevisiae* (1A3W) | -26 | -14 |
| *Homo Sapiens* (3GR4) | -24 | -17 |
| *Escherichia coli* (1PKY) | -22 | -10 |
|  |  |  |
| *Lactococcus lactis* | -11 | -4 |
| *Streptococcus mutans* | -13 | -7 |
| *Streptococcus pyogenes* | -10 | -5 |
| *Enterococcus faecalis* | -9 | -3 |
| *Lactobacillus plantarum* | -14 | -7 |

\*PDB file identifiers are given in brackets for the three crystal structures analysed. The structures for all the LAB PYKs were made by comparative modeling.