Supplementary Table S4:

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| --- | --- | --- | --- | --- |
| **Sequence information for the modeled PYKs** | | | | |
| **Organism** | **Protein Entry Name** | **Uniprot Accession Number** | **EC number** | **Sequence Length**  [number of residues] |
| *Lactococcus lactis* | KPYK\_LACLA | Q07637 | 2.7.1.40 | 502 |
| *Streptococcus mutans* | Q8DTX7\_STRMU | Q8DTX7 | 2.7.1.40 | 500 |
| *Streptococcus pyogenes* | B5XLV5\_STRPZ | B5XLV5 | 2.7.1.40 | 500 |
| *Enterococcus faecalis* | Q836R2\_ENTFA | Q836R2 | 2.7.1.40 | 585 |
| *Lactobacillus plantarum* | Q88VY2\_LACPL | Q88VY2 | 2.7.1.40 | 586 |