## Table S3: Unique putative gene cassettes (relative to *L. plantarum* and *L. pentosus* IG1) for carbohydrate utilization predicted in *L. pentosus* KCA1

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| **Gene cassettes for carbohydrate utilization**  |
| ***L. pentosus* KCA1 gene locus** | ***L. pentosus* KCA1 Product** |
| KCA1\_2348-KCA1\_2345 | Alfa-L-rhamnosidase  |
|   | transport protein, major facilitator subfamily (MSF) |
|   | Beta-glucosidase , glycoside hydrolase family 3 |
|   | glycoside hydrolase family 43 |
|   | Transcriptional regulator, AraC family |
| KCA1\_0727-KCA1\_0725 | Transcriptional regulator, RpiR family |
|   | glucose/sucrose-specific PTS system, EIIBCA component |
|   | 6-phospho-beta-glucosidase  |
| KCA1\_2425-KCA1\_2420 | transcriptional regulator, LacI family |
|   | hypothetical membrane protein |
|   | tannase (tannin acylhydrolase) |
|   | reverse transcriptase/maturase family protein |
|   | cell surface protein precursor, LPXTG-motif cell wall anchor |
|   | drug/metabolite transport protein, EamA family |
| KCA1\_2562-KCA1\_2567 | hypothetical protein |
|   | transcriptional regulator, GntR family |
|   | 6-phospho-beta-glucosidase  |
|   | PTS system, cellobiose-specific IIC component  |
|   | hypothetical protein |
|   | hypothetical protein |
| KCA1\_2591-KCA1\_2597 | Maltose O-acetyltransferase  |
|   | Glucose uptake protein |
|   | Glucose 1-dehydrogenase  |
|   | hypothetical protein |
|   | hypothetical protein |
|   | Permease, major facilitator superfamily |
|   | UDP-glucose 4-epimerase  |
| KCA1\_2847-KCA1\_2844 | transcriptional regulator, AraC family |
|   | Beta-glucosidase-related glycosidase |
|   | Alfa-L-rhamnosidase  |
|   | Beta-xylosidase  |
| KCA1\_2843-KCA1\_2841 | transporter, major facilitator superfamily (MSF) |
|   | Beta-galactosidase  |
|   | transcriptional regulator, AraC family |