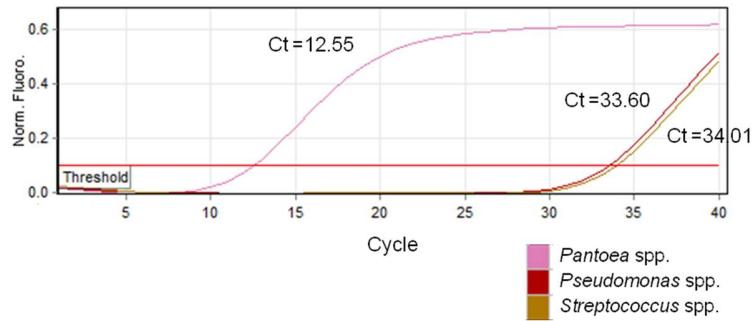
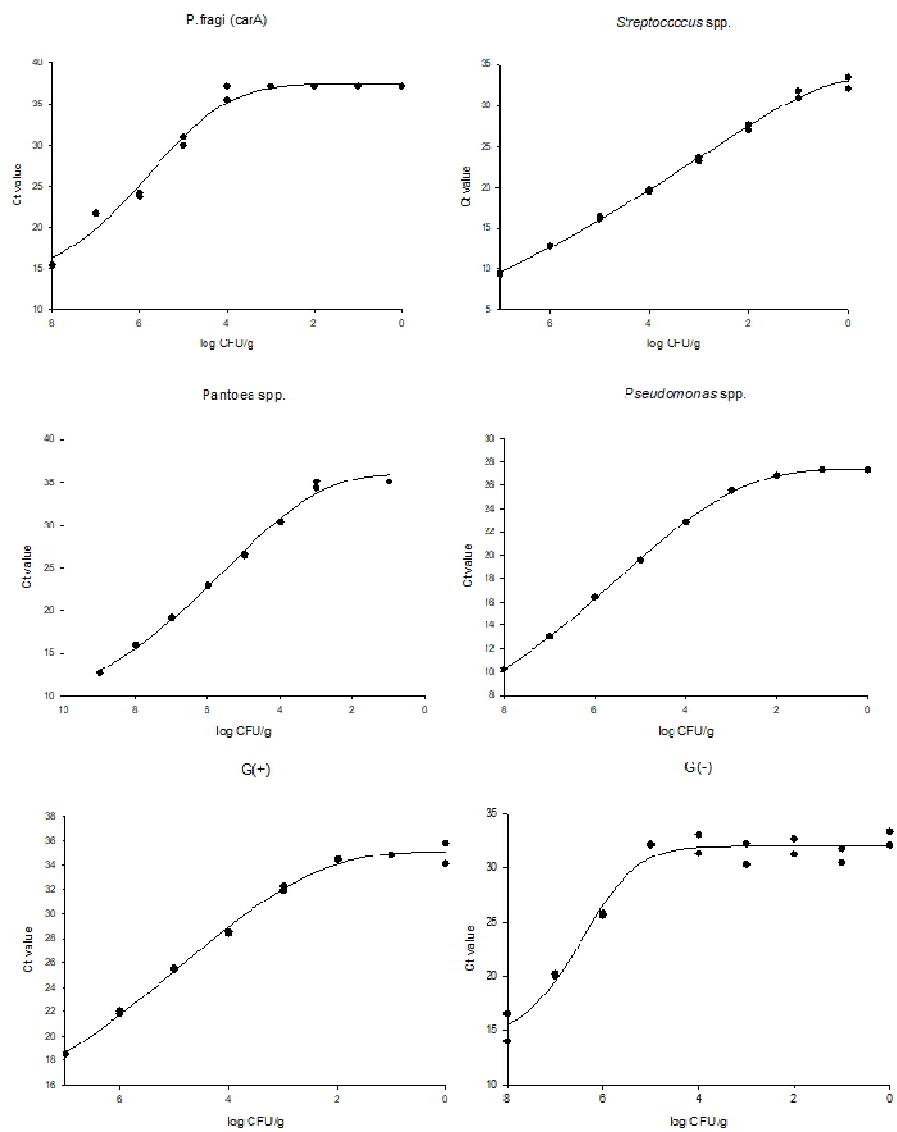


## Supplementary Files

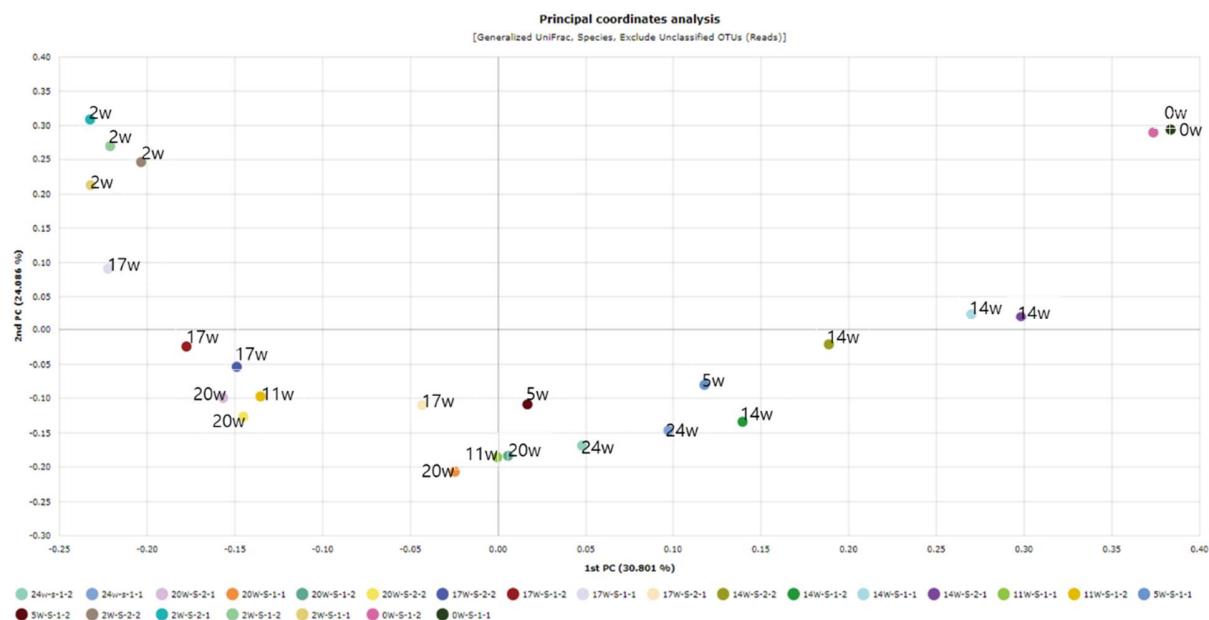


**Figure S1.** Amplification curve using primers detecting *Pantoea* spp..

\*Ct = Cycle threshold



**Figure S2.** Standard curve for each primer used to detect bacteria in the study.



**Figure S3.** Metagenomics analysis (Principal coordinates analysis (PCoA)) graph on the microflora in beef at 0–20 weeks of dry-aging.

**Table S1.** Bacterial strains used in this study.

| Strains                            | Number                                     | Source                     |
|------------------------------------|--|----------------------------|
| <i>Pantoea agglomerans</i> entry 1 | <sup>1)</sup> KCTC62152                    | Sweet potato               |
| <i>Pantoea allii</i> entry 3       | KCTC62147                                  | Sweet potato               |
| <i>Pantoea ananatis</i> entry 4    | KCTC62150                                  | Sweet potato               |
| <i>Pantoea dispersa</i>            | KCTC62144                                  | Sweet potato               |
| <i>Pseudomonas veronii</i>         | <sup>2)</sup> KEMB1602-355<br>KEMB1602-181 | Freshwater<br>Freshwater   |
|                                    | KEMB1602-162                               | Soil                       |
| <i>Pseudomonas fragi</i>           | KEMB3-342<br>3B-104 (This study)           | Seawater<br>Dry-aged beef  |
| <i>Pseudomonas fluorescens</i>     | KACC10323                                  | Soil                       |
| <i>Pseudomonas aeruginosa</i>      | <sup>3)</sup> NCCP10338                    | –                          |
| <i>Streptococcus salivarius</i>    | KCTC5091                                   | Dairy product              |
| <i>Listeria monocytogenes</i>      | SI-7 [25]<br>SI-10 [25]                    | Beef<br>Beef               |
| <i>Escherichia coli</i>            | 11-1 [25]<br>11-2 [25]                     | Smoked duck<br>Smoked duck |
| <i>Carnobacterium divergens</i>    | 3R-28 (This study)                         | Dry-aged beef              |

<sup>1</sup> KCTC, Korean collection for type cultures(Jeongeup, South Korea) Tables may have a footer.

<sup>2</sup> KEMB, Korea environmental microorganisms bank(Kyonggi, South Korea) Tables may have a footer.

<sup>3</sup> NCCP, National culture collection for pathogens(Cheongju, South Korea) Tables may have a footer.