|  |  |  |  |
| --- | --- | --- | --- |
| **Pathway** | **Reactions** | **Single\_org** | **Transporter** |
| Anaerobic benzoate-acetylCoA | R02601,R00813,R02604,R00816 | (R02601,R02604),(R00813,R00816) | (R00750:R02601) |
| Aerobic benzoate-acetylCoA | R02601,R00750,R00813 |  |  |

**Table S5.** User-defined constraints. Definition of pathway name, complete set of reactions present in each pathway, sets of reactions required to be performed by single species (each subset is described between parenthesis) and transport reactions. Transporter column describes the transport reaction (e.g. R00750) that is coupled to the reaction in the pathway (e.g. R02601). Thus, species that perform the latter must also contain the genes associated to the transport reaction.