**Additional file 9 Sup. Table 5.**

Table 5. Primers used in the qRT-PCR

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| Gene | 5′ Primer | 3′ Primer |
| *APL1*(Spo000868) | GCACCGTAGAGCATAGCG | TCGTCCTCCGTCTCATAG |
| *APL2*(Spo018468) | ACCGTCGAGCATTCCATC | GCGTTCTTCACCACCACC |
| *APL3*(Spo018109) | GCAGCATCCAGCATTCCA | CGCCTCGGTCTGATAGTTGT |
| *GBSS*(Spo003469) | ATCCAGAACTGCATGGCTCA | TCGCTCCCACCAGAAAGG |
| *SSS*(Spo007204) | TGCGACATACTCTTAATGCCCT | CCACTGGAAGACTTGCTCGTA |
| *SBE*(Spo007736) | TGGACGTGCTTACTTAAACTTC | CTTATCAAAGTTGAAAATACTGCTA |
| *DBE*(Spo001017) | GTAATAAAGGCTGGCATCG | ACACGGTTTCACAGAAGG |
| *PEPC*(Spo007324) | CGGCGTTCAAGCATGTCC | CGTTGAGCGTCGTGGTGTAG |
| *MDH*(Spo014243) | GGGGCTCATCTACTCCTTC | TGGCGTCCATCTTCTTCC |
| *INO1*(Spo001754) | ACTCCTTCCACCCAGTAGCC | TCTCCAGCATCGCCCTCT |