## GO terms enrichment of downregulated genes of *P. oligofermentans* 0°C 4°C 28°C 14°C 0.1 generation of precursor metabolites and energy cell wall macromolecule biosynthesis peptidoglycan-based cell wall biogenesis 0.08 cellular homeostasis organic acid biosynthesis phosphate ion transport 0.06 anion transmembrane transport inorganic ion transmembrane transport oxidation-reduction process 0.04 sodium ion transport carbohydrate transport pentosé metabolism 0.02 alcohol catabolic process cellular amino acid biosynthesis monocarboxylic acid metabolism cell redox homeostasis cellular carbohydrate metabolism glucose metabólism peptidyl-histidine phosphorylation purine ribonucleoside biosynthesis protein dephosphorylation pyrimidine nucleoside triphosphate biosynthesis nucleoside diphosphate phosphorylation guanosine-containing compound metabolism signal transduction by protein phosphorylation negative regulation of transcription transcription. DNA tomplated transcription, DNA-templated secondary alcohol metabolism PTS carbohydrate transmembrane transport alpha-amino acid metabolism cellular catabolic process carbohydrate derivative catabolic process carbohydrate metabolism nucleotide catabolic process pentose catabolic process deoxyribonucleotide metabolism metal ion transport tRNA aminoacylation for protein translation ATP hydrolysis coupled cation transmembrane ATP biosynthesis energy coupled proton transport arginine biosynthesis cell division signal transduction cell cycle regulation of cell shape translation 'de novo' UMP biosynthesis L-serine metabolism

35'

185'

5'

35' 185'

35' 185'

35' 185'

fatty acid metabolism

serine family amino acid biosynthesis