## Supplementary Figure - Reactions from glucose to pelargonidin 3-O-glucoside

Yellow: glycolysis an ethanolic fermentation. Blue: pentose phosphate pathway. Brown: *E. coli* shikimate pathway. Green: plant anthocyanin pathway. The gene names encoding the enzymes involved in the indicated reactions are indicated in italics. Genes deleted in the present study are indicated in red and underlined. *Ec E. coli, At Arabidopsis thaliana, Rc Rhodobacter capsulatus, co* codon optimized. *fbr* feedback resistant, Glc glucose, Glc-6P glucose 6-phosphate, Fru-6p fructose-6-phosphate, Fru-1,6-BP fructose 1,6-biphosphate, GAP glyceraldehyde 3-phosphate, DHAP dihydroxyacetone, 1,3-BPG 1,3-biphosphoglycerate, 3-PG 3-phosphoglycerate,2-PG 2-phosphoglycerate, PEP phosphoenolpyruvate, Pyr pyruvate, AcAL acetaldehyde, EtOH ethanol, 6p-GLCN-lac 6-phosphogluconolactone, 6p-GLCN 6-phosphoglucono, RL5P ribulose 5-phosphate, R5P ribose 5-phosphate, S7P sedoheptulose 7-phosphate, XUL-5P xylulose 5-phosphate, GAP glyceraldehyde 3-phosphate, Ery-4P erythrose 4-phosphate, DAHP 3-deoxy-D-arabino-heptulosonate-7-P, DHQ 3-dehydroquinate, DHS 3-dehydroshikimate, SHIK shikimate, SHP shikimate 3-phosphate, EP3P 5-enolpyruvoyl-shikimate 3-phosphate, CHA chorismate, PPA prephenate, PPY phenylpyruvate, PAC phenylacetaldehyde 2PE 2-phenylethanol, PAA phenylacetic acid, PHE L-phenylalanine, *p*OHPPY *p-*hydroxyphenylpyruvate, *p*OHPAC *p*-hydroxyphenylacetaldehyde, *p*OH2PE, *p*-hydroxyphenylethanol, *p*OHPAA, *p*-hydroxyphenylacetic acid, TYR tyrosine, COUM coumaric acid, CIN cinnamic acid, COCOA coumaroyl-CoA, NARCC naringenin chalcone, PHLOR phloretic acid, NAR naringenin, DHK dihydrokaempferol, KAE kaempferol, K3G kaempferol 3-O-glucoside, LPE, leucopelargonidin, PEL pelargonidin, P3G pelargonidin 3-O-glucoside

