ESI4. Enriched go-terms among the significantly expressed genes between changing copper levels in response to interaction effect of the change in the copper level and the deletion of *CCC2*.

		Enriched GO-Biological Process Terms	
INTERACTION EFFECT		CCC2∆/ CCC2∆	Reference strain
UP	High Cu vs Low Cu	Arginine metabolic process (p-val≤ 2.89e-2) Carboxylic acid metabolic process (p-val≤ 5.43e-3)	Iron ion homeostasis (p-val≤ 3.04e-2) Siderophore transport (p-val≤ 2.19e-2)
	High Cu vs Cu Def	ATP synthesis coupled electron transport (p-val≤ 1.41e-2)	Iron ion homeostasis
DOWN	High Cu vs Cu Def	Iron ion homeostasis (p-val≤ 4.63e-3) Siderophore transport (p-val≤ 1.52e-6)	
	Low Cu vs Cu Def	Arginine metabolic process  (p-val \le 2.20e-03)  Ornithine (p-val \le 8.34e-3) and urea(p-val \le 5.24e-3) metabolic process  Drug membrane transport  (p-val \le 8.34e-3)  Cellular keton metabolic process(p-val \le 9.47e-3)  "de novo" UMP biosynthetic process (p-val \le 7.83e-3)	