

Table S9: Cellular abundances of the proteins from various two-component systems in *E. coli*. Data from several proteomic studies (see also ‘<http://ecoliwiki.net/colipedia>’). All values are in copy numbers per cell.

Two-component system (Histidine kinase / response regulator)	Histidine kinase				Response regulator			
	(55)	(54)	(56)	Other	(55)	(54)	(56)	Other
CheA / CheY: Chemotaxis				6,700 (20)	12			8,200 (20)
EnvZ / OmpR: Osmolarity sensing			1.3	100 (53)	81	613	238	3,500 (53)
NarX / NarL: Response to nitrite			1.3			229	522	
PhoR / PhoB: Phosphate regulation	11							
EvgS / EvgA: Drug resistance	5	82				198	26	
CusS / CusR: Copper response	2		1.4					
YedV / YedW	3		0.8		1.5			
KdpD / KdpE: Potassium transport	9		6/0.7		6			
BaeS / BaeR					12	167		
HydH / HydG	1							
PhoQ / PhoP: Response to magnesium	7		1.2			786	113	
BasS / BasR: Polymyxin resistance	0.7		1.3		65			
CpxA / CpxR: Response to cell envelope stress			1.8		33	664	316	
TorS / TorR	3							
DcuS / DcuR			1.1		0.6			
RcsC / RcsB: Capsular synthesis	9		1.1		369	1,490	597	
CitA / CitB					1			
ArcB / ArcA: Respiratory control	56	100	32/1.5			2,660	550	
BarA / UvrY: Hydrogen peroxide sensitivity	2		1.3		29		18	

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