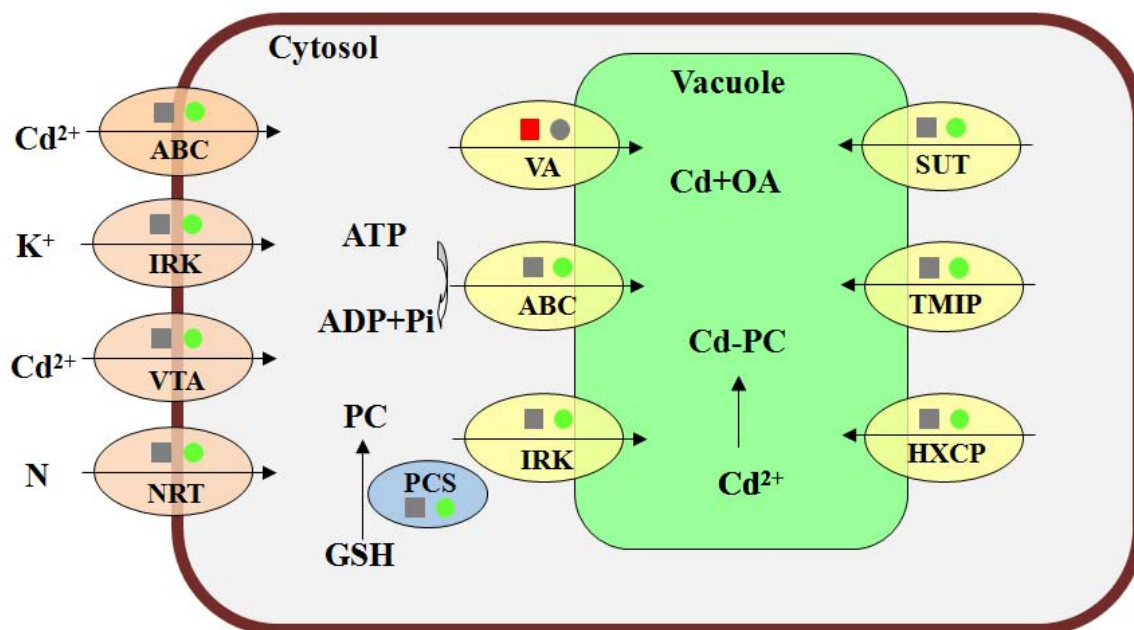




Additional File 3: Figure S3 Integrated schematic diagram of the mechanisms involved in vacuolar compartmentalization of Cd in barley leaves. Genes labelled with red, grey and green squares (Weisuobuzhi) circles (Dong17) are up-regulated, not changed and down-regulated by 5 μM Cd treatment, respectively. ABC, ABC transporter family protein; HXCP, Hexose carrier protein; IRK, Inwardly rectifying potassium channel; NRT, Nitrate and Nitrite transporter; OA, organic acids; PC, Phytochelatin; PCS, Phytochelatin synthetase; SUT, Sugar transporter; TMIP, Tonoplast membrane integral protein; VA, Vacuolar ATP synthase; VTA, Vesicle transfer ATPase.