



**Figure S1** CircP4HB protects LUAD SPCA1 cells from ferroptosis by promoting GSH synthesis. (A) Transfection efficiency was determined in both SPCA1 and H1299 cell lines by qRT-PCR; (B) cell viability was assessed using the CCK8 assay; (C,D) the GSH levels and GSH/GSSG ratios of circP4HB-overexpressing cells were detected; (E,F) the MDA levels and Ptgs2 gene levels in circP4HB-overexpressing cells following treatment with erastin and DMSO controls were tested; (G,H) the lipid ROS and JC-1 levels of treated SPCA1 were measured; (I,J) transfection efficiency of miR-1184 or SLC7A11 was determined in SPCA1 and H1299 cell lines via qRT-PCR respectively. \*\* $P < 0.01$ ; \*\*\* $P < 0.001$ . LUAD, lung adenocarcinoma; GSH, glutathione; GSSG, oxidized glutathione disulfide; MDA, malondialdehyde; Ptgs2, prostaglandin-endoperoxide synthase 2; DMSO, dimethyl sulfoxide; SLC7A11, solute carrier family 7 member 11.