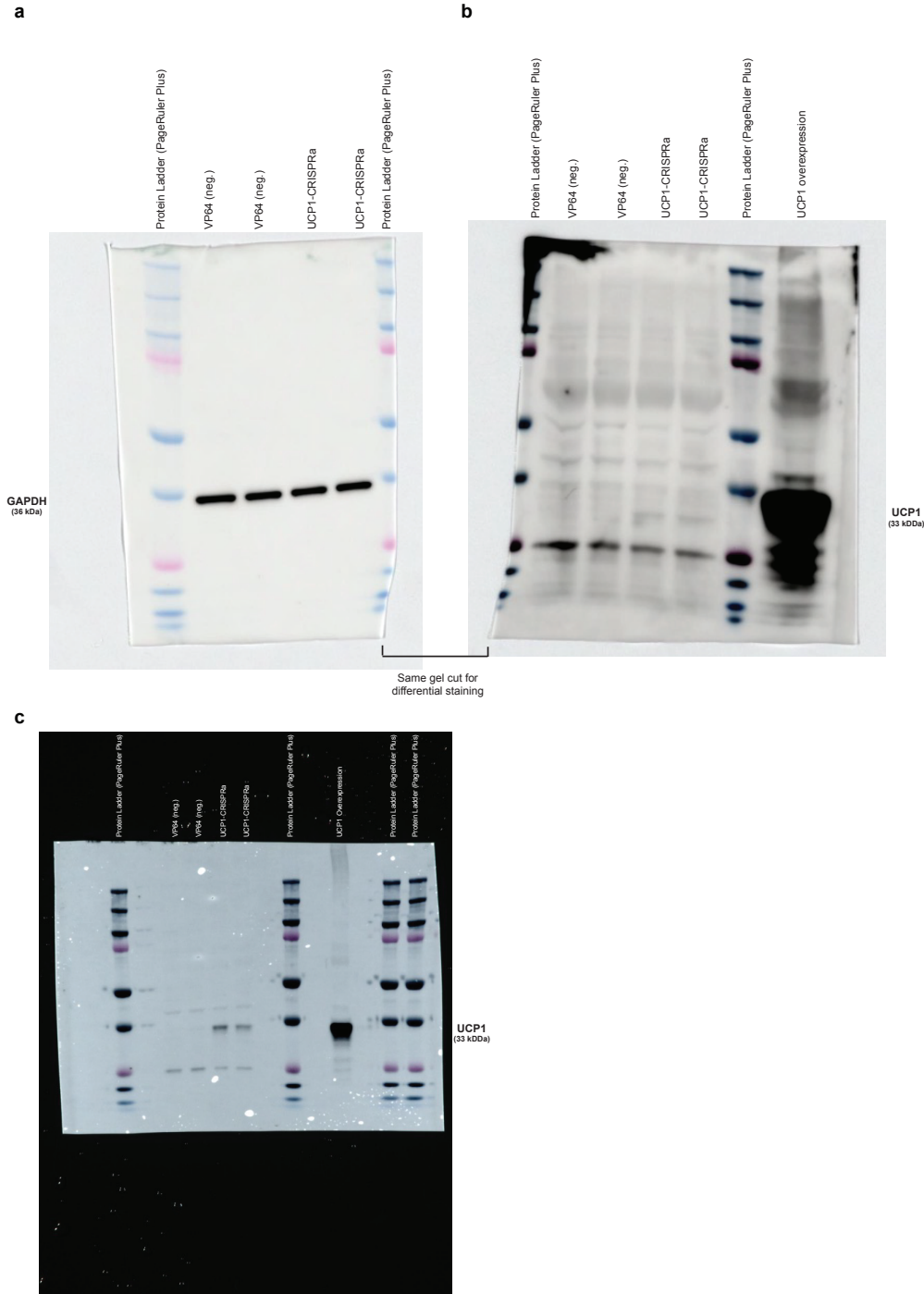




Source Data Figure 1. Raw data for Western blots. a-b, Uncropped images of the Western blot displayed in **Extended Data Figure 11**. The same blot was cut and stained on the left for GAPDH (**a**) and UCP1 on the right (**b**) due to both proteins being close in size (36 kDa for GAPDH and 33 kDa for UCP1). GAPDH was used as a loading marker due to its use also in qRT-PCR. 10ug/lane GAPDH, 40ug/lane dCas9-VP64 only (VP64 (neg.)), 40ug/lane dCas9-VP64 + UCP1-sgRNA (UCP1-CRISPRa) and 10ug/lane UCP1 overexpression were loaded in their respective lanes. **c**, Additional Western blot using the same samples in a-b showing 40ug/lane dCas9-VP64 only (VP64 (neg.)), 40ug/lane dCas9-VP64 + UCP1-sgRNA (UCP1-CRISPRa) and 10ug/lane UCP1 overexpression. The PageRuler Plus Protein Ladder (Thermo Fisher) was used as a marker in all Westerns.