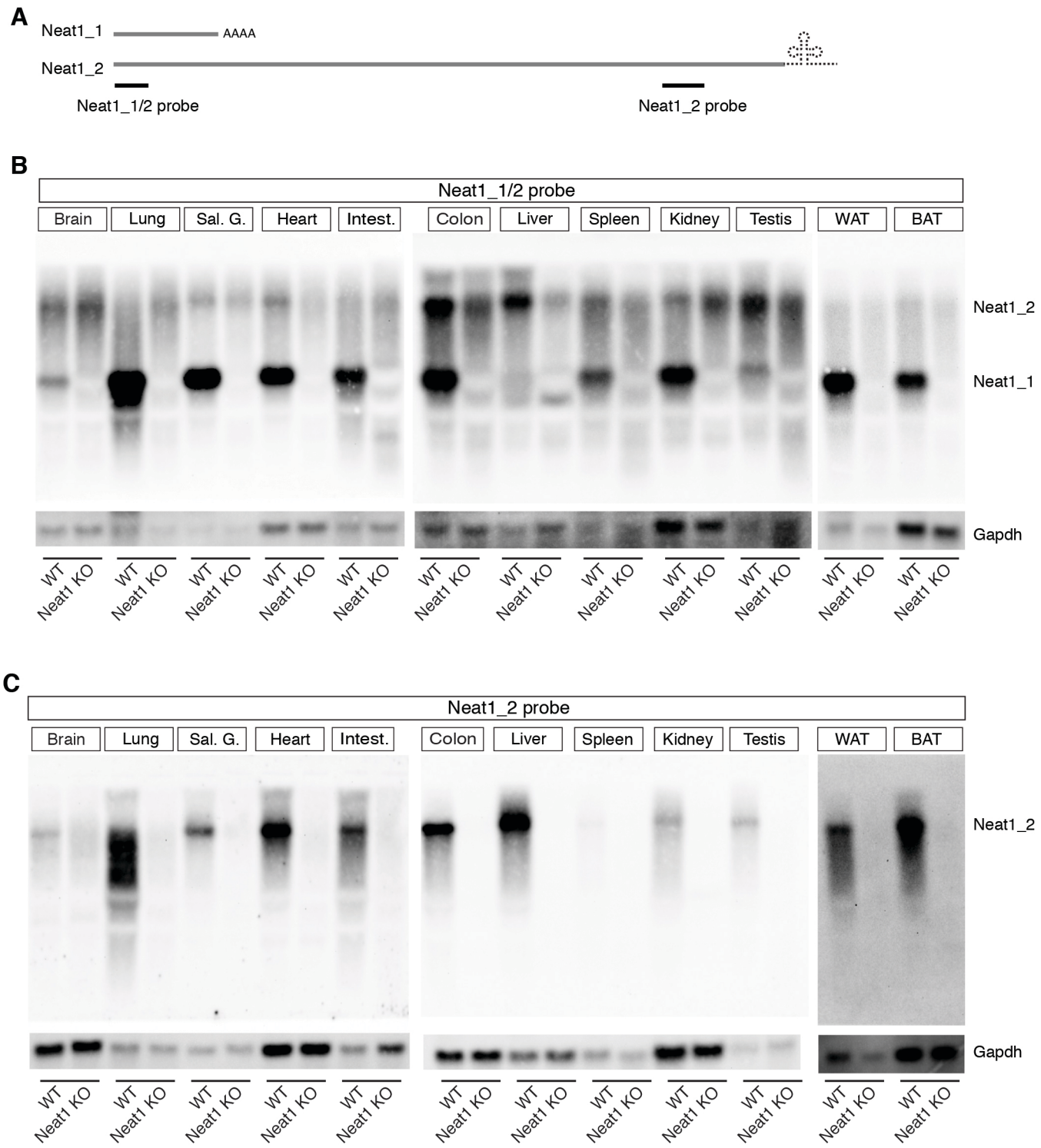Isobe et al. Supplemental figure S2