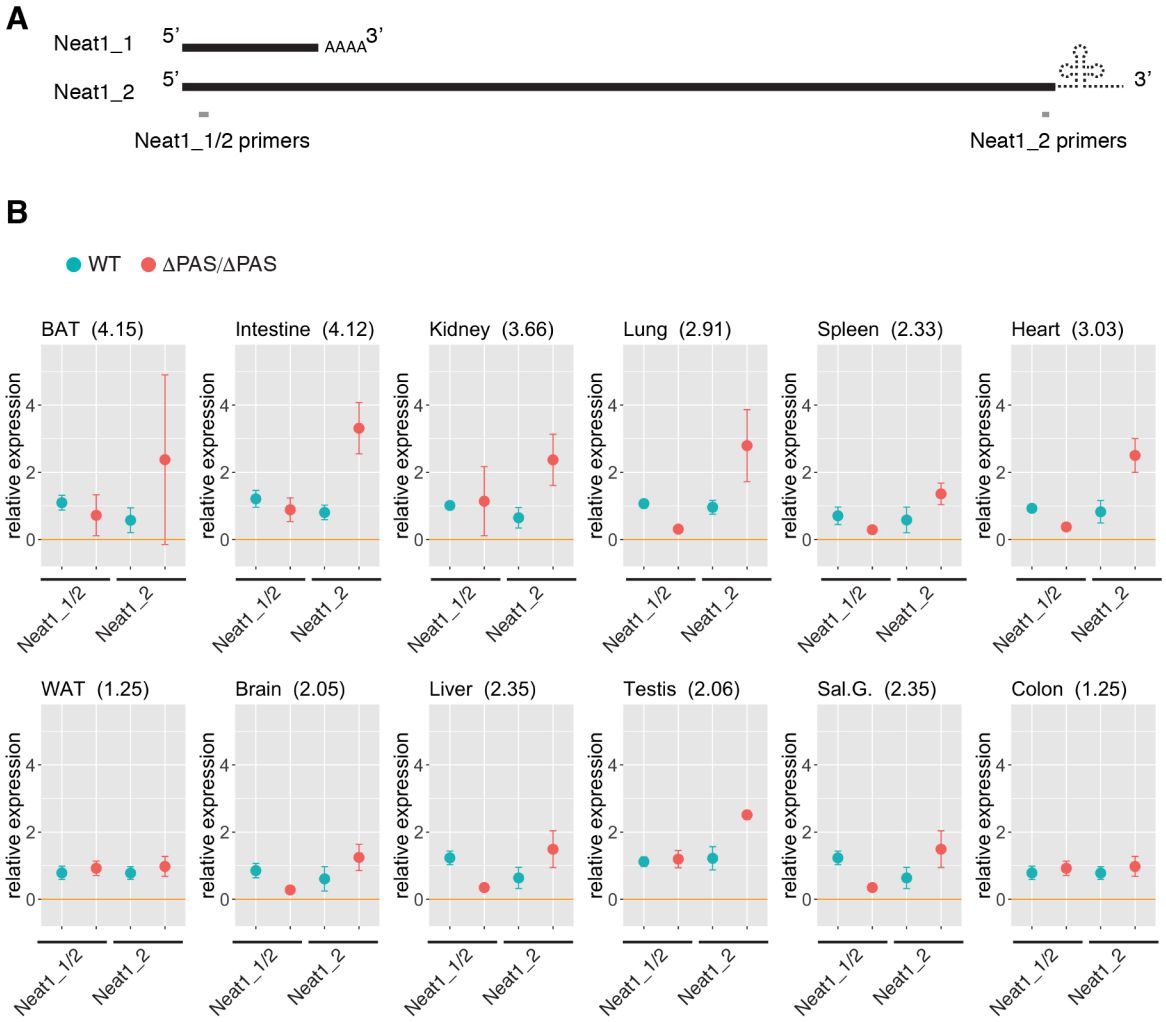Isobe et al. Supplemental figure S3