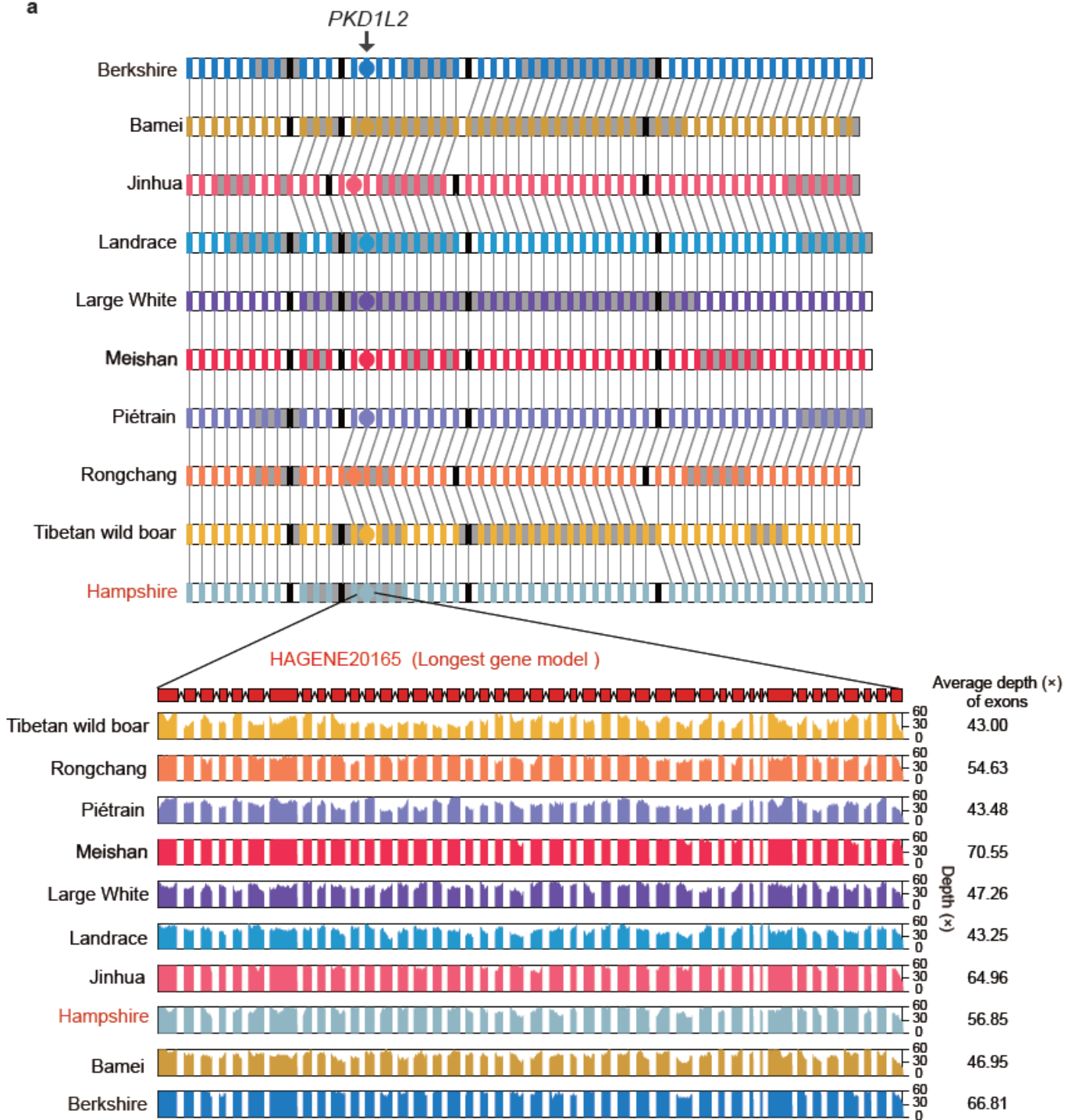
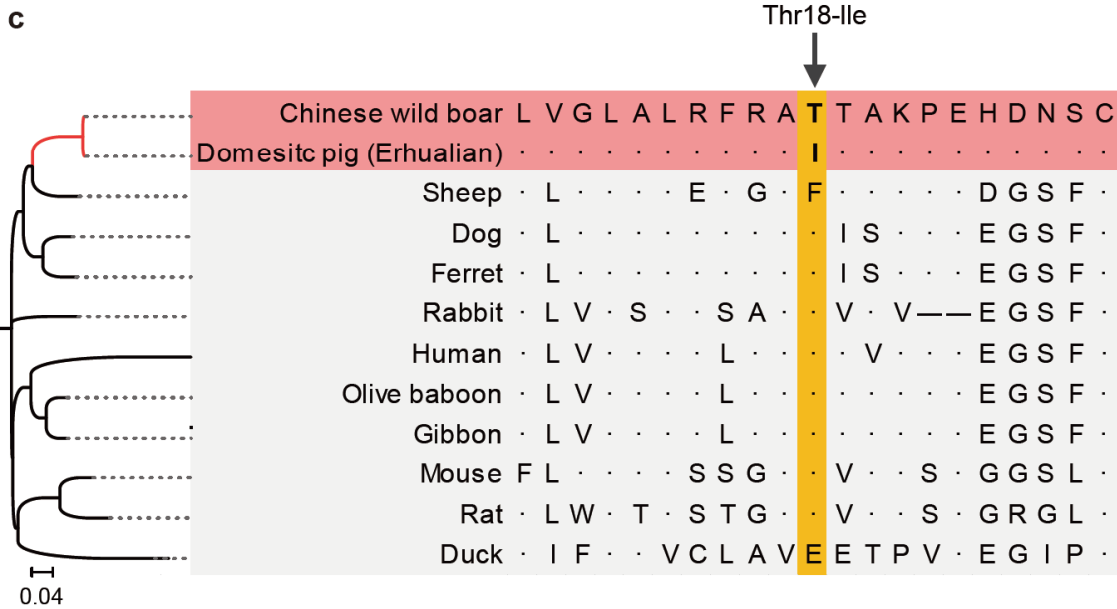
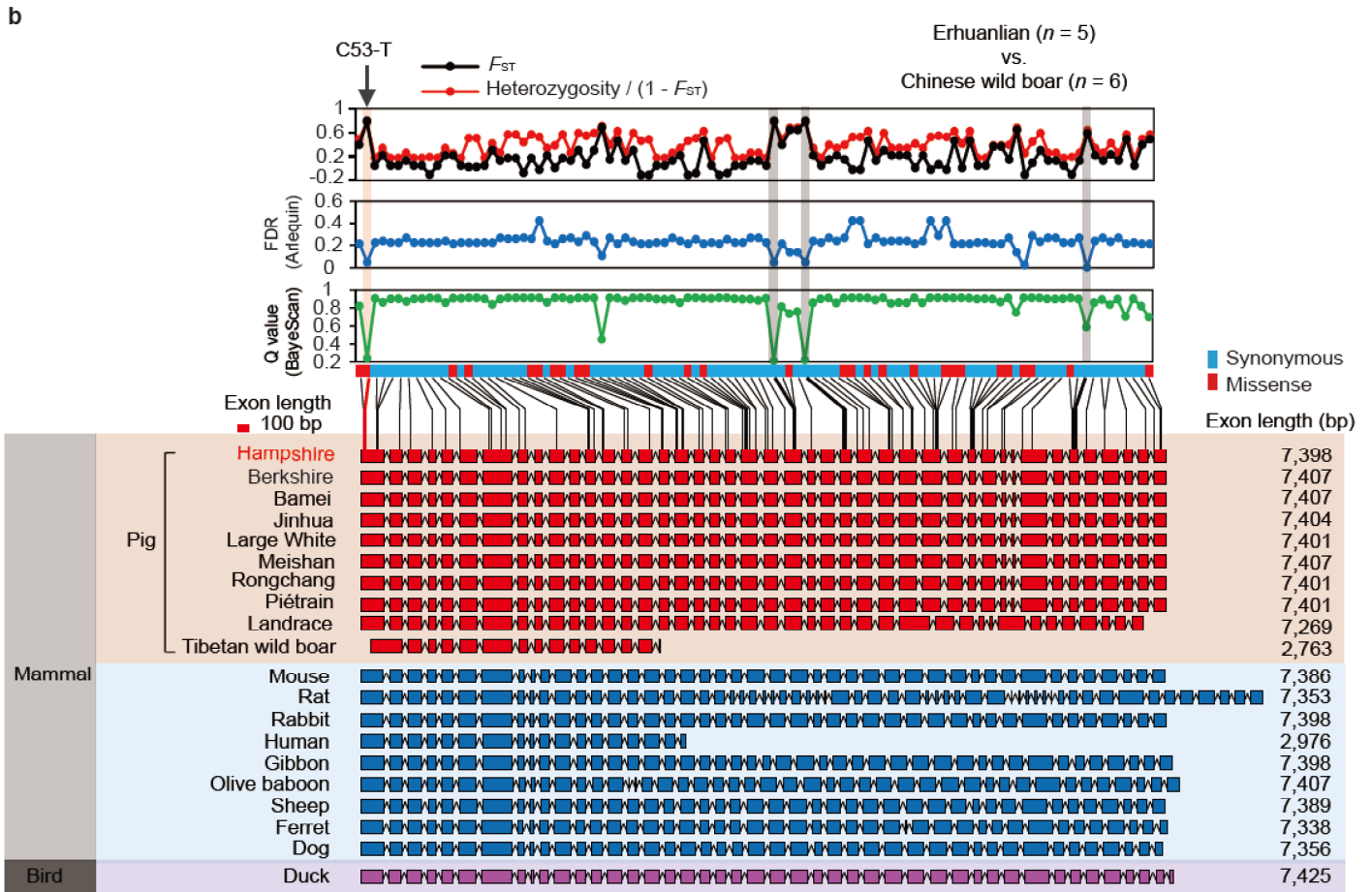
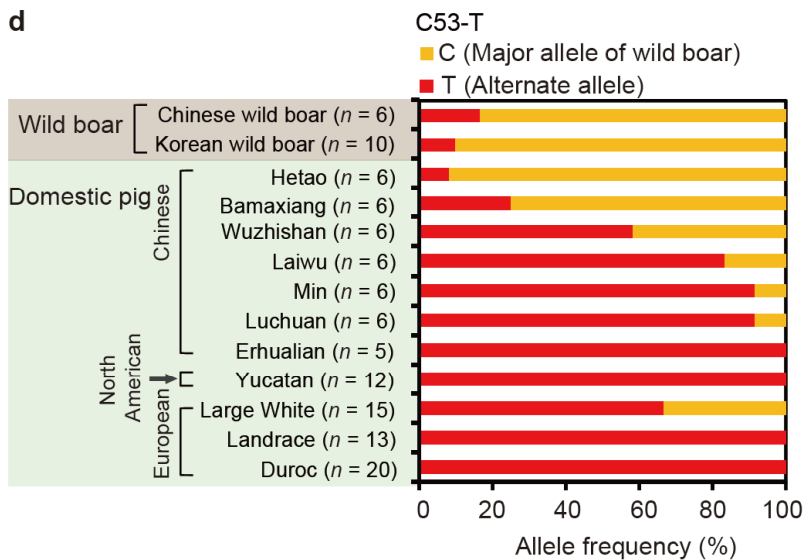


a







Supplemental Fig. S49. Details of assembled *PKD1L2* and selected variants. (a) Assembled *PKD1L2*. Top panels: the inter-assembly collinear genes (colorized rectangles) are linked by gray lines, while genes not presented in all of ten assemblies are marked in black. *PKD1L2* is denoted as a circle. Different scaffolds are distinguished by alternant white and gray backgrounds. Second panels: the higher coverage and depth for the longest gene model of the *PKD1L2* by crossly mapping with reads from paired-end DNA libraries (insert sizes of 180 and 500 bp) of ten assemblies. This result suggests the slightly distinct structures of collinear missing genes among ten assemblies (See **b**), which are attributable to the limitations of short reads assembly. Therefore, the longest gene model was considered more reliable and used for subsequent analyses. **(b)** A selected missense mutation (C53-T) in *PKD1L2* between Chinese wild boars ($n = 6$) and domestic Erhualian pigs ($n = 5$). Top panels: F_{ST} and Heterozygosity $/(1 - F_{ST})$, FDR (Arlequin)³⁹ and q values (BayeScan)⁴⁰ are plotted for 102 coding mutations (28 missenses and 74 synonymous mutations). Second panels: structures of *PKD1L2* among ten assemblies and in various species. Boxes and lines indicate exons and introns, respectively. **(c)** An amino acid variant (Thr18-Ile) in *PKD1L2*. Left panels: The phylogenetic tree of the orthologous protein sequences of pig and 10 vertebrates (Ensemble release 83) were derived from multiple alignment as implemented in the Clustal Omega tool³⁵, which were in accordance with the evolutionary distance with pig lineage. Right panels: Multispecies alignment of proteins for a selected missense mutation. The protein coordinate is based on longest gene model of inter-assembly collinear genes among ten assemblies (HAGENE20165). Dots indicate identities to the Chinese wild boar sequence and dashes indicate missing data. **(d)** Selected missense mutation (C53-T) is highly frequent in domestic pigs.