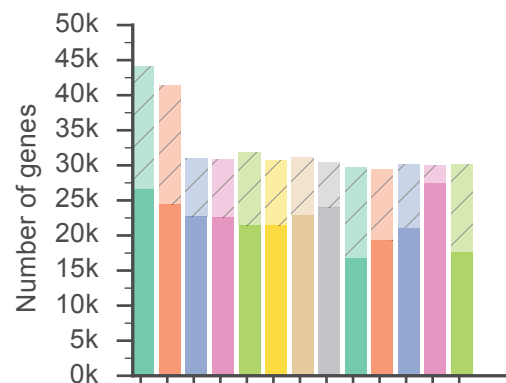
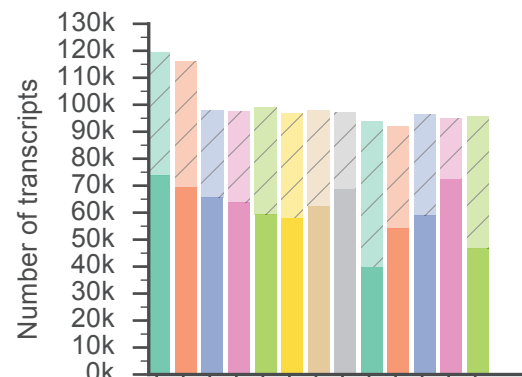


A) Number of BUSCO genes not found in CAT annotations of 13 mammalian genomes

	Mus pahari	Rat (rn6)	Rhesus (rheMac3)	Chimpanzee (panTro4)	Human (hg19)	Gorilla (gorGor3)	Orangutan (ponAbe2)
Number of BUSCOs	38	99	138	90	26	184	133
	Cat (felCat8)	Elephant (loxAfr3)	Rabbit (oryCun2)	Dog (canFam3)	Sheep (oviAri3)	Cow (bosTau8)	
Number of BUSCOs	95	114	147	90	162	93	

B) Non-zero expression estimates of species-specific mixed RNA-seq (Kallisto)



C) Isoform validation of human annotated using mouse GENCODE VM15

Annotation	Exactly matches annotation	Fuzzy matches (± 8 bp) annotation
GENCODE v27lift37	14,457 (75.2%)	15,920 (82.8%)
CAT	11,004 (57.2%)	12,911 (67.1%)

D) Jaccard similarity of CAT annotations of GRCh38 vs. GENCODE

annotation pair	exon Jaccard similarity	intron Jaccard similarity
CAT/GENCODE V27lift37	0.617	0.836