

**Supplementary Figure 3.** Genes associated with environmental variables. Population names and individual codes are corresponding with Table 1. and Figure 1. Colors are only used for better visualization.

Environmental Variable selecting genotype	Name of gene with selected genotype	N-HU							S-HU				DAN				BALK-ANAT				SAM		I-CR		C-BAL				CRI-BES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		HUHV697	HUPVG698	HUPVG838	HUPVG925	HUPVG955	HUPVG957	HUPVZ003	HUVBSz6	HUVBSz16	HUVBSz7	HUVBSz12	HUVBSz2	HUVBSz13	HUVBSz8	HUVBSz17	HUVBSz1	HUDF2U2	HUDF2U22	HUDTDF1	HUFH2024	HUSHGy693	HUPAZ027	HUPTPV2	HRBRB01	HRBRB02	RSBUY3	RSZLY5	RSZLY6	BGSO1415	BGSO1415	TUIJZ57	GRL0763	GRSAD8	GRSAD19	HRO1002	HRPPL11	ALBO721	ALPE1856	MKPJ1632	MKBK1577	MKPH1514	RSCU1708	UABDT1184	UABO2389	UAKU1185	UAKU1186	UAKU2383	UAMM2382	UAPE2384	UAPT2385	UASK1183	UAVU2391	UAY2386																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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KCNH5  
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 APELA  
 CD34  
 LOC106546708  
 PCCA  
 PAM  
 CTNND1  
 LOC106546904  
 LOC106546904  
 HDAC11  
 MYOM1  
 LOC106543088  
 RGS18

[illegible]