

Table S5 Gene Ontology (GO) terms and KEGG pathways enriched ($P < 0.05$) based on annotated genes within ROH islands for the blue roan Noriker sample

Category	Term	p-value	Genes	Fold Enrichment	Bonferroni adjusted p-value
Biological process	GO:0048704~embryonic skeletal system morphogenesis	<0,001	<i>HOXB3, HOXB1, HOXB2, HOXB7, HOXB8, HOXB5, HOXB6</i>	84,84	0,000
	GO:0009952~anterior/posterior pattern specification	<0,001	<i>HOXB3, HOXB1, HOXB2, HOXB7, HOXB8, HOXB5, HOXB6</i>	39,25	0,000
	GO:0021570~rhombomere 4 development	0,005	<i>HOXB1, HOXB2</i>	375,72	0,476
	GO:0021612~facial nerve structural organization	0,020	<i>HOXB1, HOXB2</i>	93,93	0,924
	GO:0001525~angiogenesis	0,026	<i>HOXB3, HOXB13, TMEM100</i>	11,62	0,962
Cellular component	GO:0005634~nucleus	0,030	<i>HOXB3, HLF, HOXB1, HOXB2, SP2, HOXB8, HOXB5, HOXB6, SP6, CDK5RAP3</i>	2,11	0,699
	GO:0005654~nucleoplasm	0,049	<i>MRPL10, UBE2Z, HOXB7, SNF8, PNPO, HOXB13, KPNB1</i>	2,49	0,857
Molecular function	GO:0043565~sequence-specific DNA binding	0,002	<i>HOXB1, HOXB2, HOXB7, HOXB6, HOXB13</i>	8,82	0,066
	GO:0003700~transcription factor activity, sequence-specific DNA binding	0,007	<i>HOXB2, HOXB7, HOXB8, HOXB6, ZFAT</i>	6,13	0,222