Table S5: A. The number of horses with no P variant alleles, one P variant allele, or > 1 P variant allele, and the percentage of horses that possessed > 1 P variant allele across all three loci. P-values are given for comparisons of the number of horses with none, one, or > 1 P variant allele between control and PSSM2 or MFM horses by breed. **B.** The number of horses with no P variant loci, one P variant locus, or > 1 P variant locus, and the percentage of horses that possessed > 1 P variant locus. P-values represent the comparisons of the number of horses with none, one, or > 1 variant loci between control and PSSM2 or MFM horses by breed.

Α.		N	Zero Variant Alleles	One Variant Allele	>1 Variant Allele	P-value
	Control-WB	54	33	18	3	
	PSSM2-WB	55	29	18	8	0.33
	MFM -WB	37	15	18	4	0.15
	Control-AR	30	20	9	1	
	PSSM2-AR	18	10	7	1	0.68
	MFM -AR	30	15	12	3	0.32
				One	_	
В.			Zero Variant Loci	Variant Locus	>1 Variant Locus	P-value
В.	Control-WB	54	Variant		Variant	P-value
В.	Control-WB PSSM2-WB	54 55	Variant Loci	Locus	Variant Locus	P-value
В.		+ • •	Variant Loci 33	Locus 19	Variant Locus 2	
В.	PSSM2-WB	55	Variant Loci 33 29	19 20	Variant Locus 2 6	0.36
В.	PSSM2-WB MFM -WB	55 37	Variant Loci 33 29 15	19 20 19	Variant Locus 2 6 3	0.36