(a)

ELA serotype

		+	-	Σ^a
msat[b]	+	a	c	a+c
haplotype	-	b	d	b+d
	Σ	a+b	c+d	n

(b)

ELA-A1

		+	-	Σ
msat A1	+	51	2	53
	-	5	376	381
	Σ	56	378	434

r^c = 0.93

ELA-A2

		+	-	Σ
msat A2	+	29	2	31
	-	7	396	403
	Σ	36	398	434

r = 0.86

ELA-A3

		+	-	Σ
msat A3	+	58	3	61
	-	4	369	373
	Σ	62	372	434

r = 0.93

ELA-A4

		+	-	Σ
msat A4	+	17	0	17
	-	3	414	417
	Σ	20	414	434

r = 0.92

ELA-A5

		+	-	Σ
msat A5	+	31	4	35
	-	4	395	399
	Σ	35	399	434

r = 0.88

ELA-A6

		+	-	Σ
msat A6	+	14	1	15
	-	8	411	419
	Σ	22	412	434

r = 0.76

ELA-A7

		+	-	Σ
msat A7	+	10	1	11
	-	3	420	423
	Σ	13	421	434

r = 0.83

ELA-A8

		+	-	Σ
msat A8	+	18	0	18
	-	2	414	416
	Σ	20	414	434

r = 0.95

ELA-A9

		+	-	Σ
msat A9	+	7	0	7
	-	1	148	149
	Σ	8	148	156

r = 0.93

ELA-A10

		+	-	Σ
msat A10	+	75	6	81
	-	13	340	353
	Σ	88	346	434

r = 0.86

ELA-A15

		+	-	Σ
msat A15	+	4	3	7
	-	0	427	427
	Σ	4	430	434

r = 0.75

ELA-A19

		+	-	Σ
msat A19	+	8	0	8
	-	6	420	426
	Σ	14	420	434

r = 0.75

Figure S3. 2x2 contingency tables for correlation coefficient (*r*) analysis in 218 serotyped and microsatellite (msat) typed horses: (a) design of 2x2 contingency tables (b) microsatellite haplotypes and all pooled statistics. All haplotypes showed strong correlation (*r* > 0.7), validating the utility of intra-MHC microsatellite typing in the horse.

[a] Σ = total.
[b] microsatellite.
[c] $r = (ad - bc) / \sqrt{(a+b)(c+d)(a+c)(b+d)}$ (Klein 1986).

References
Klein J. (1986) The Antibody. In: *Natural History of the Major Histocompatibility Complex.* (ed. by Anonymous), pp. 233-90. John Wiley & Sons, Inc., New York, NY.