

Supplementary Table 4. Chromosome wise information on selected parameters of the integrated RH and comparative map

Horse Chr.	Size (Mb) according to RH I (1)	Size (Mb) EquCab1	Size (cR)	No of RH groups	No of MLE consensus markers	Average marker density (Mb)*	No of loci on the RH map				No of FISH mapped loci		No of markers shared with linkage maps	No of comparative loci	
							Total	Type I	Type II	BAC ends, STSs	Total	Anchor loci		With human	With all other species
ECA1	204	180	2506.3	13	124	0.78	260	136	120	4	100	70	71	193	147
ECA2	135	106	1724.2	3	92	0.69	196	107	80	9	55	43	45	134	96
ECA3	132	110	1795.8	4	93	0.92	143	72	68	3	46	30	26	110	81
ECA4	120	98	2026.9	2	111	0.61	196	106	87	3	43	35	46	142	98
ECA5	111	73	1588.1	4	104	0.63	177	102	69	6	48	32	32	133	102
ECA6	108	82	1189.1	4	70	0.68	158	92	65	1	43	33	32	122	92
ECA7	105	86	1430.3	5	67	0.88	120	45	72	3	70	41	23	86	62
ECA8	105	87	1437.6	5	73	0.88	120	58	61	1	44	26	34	98	74
ECA9	99	76	1354.9	2	61	0.9	110	44	65	1	22	14	37	76	44
ECA10	96	79	1627.5	2	81	0.58	165	84	64	17	51	42	43	120	80
ECA11	72	58	1827.9	4	83	0.56	129	56	65	8	46	33	31	93	59
ECA12	63	19	679.1	2	37	1.15	55	25	30	0	12	9	14	38	27
ECA13	60	18	805.1	3	48	0.63	95	47	45	3	23	19	23	54	43
ECA14	120	92	1764.4	1	77	0.70	172	96	70	6	48	38	39	120	93
ECA15	111	88	1393.3	2	62	0.82	136	64	68	4	40	32	38	96	65
ECA16	108	87	1686.0	7	71	0.8	135	67	61	7	48	33	38	89	66
ECA17	102	79	870.8	10	52	0.84	121	65	52	4	39	36	24	77	54
ECA18	102	64	1245.6	3	53	0.96	106	55	46	5	21	17	27	74	52
ECA19	96	56	1202.0	1	43	1.04	92	34	55	3	19	12	27	53	31
ECA20	87	58	1321.0	2	57	0.65	134	54	66	14	38	24	32	84	53
ECA21	81	53	875.6	3	47	0.70	116	70	44	2	37	26	27	78	66
ECA22	72	50	911.4	1	45	0.54	133	82	50	1	52	45	26	93	71
ECA23	69	41	711.8	3	44	0.91	76	26	43	7	21	15	28	58	28
ECA24	63	47	830.7	2	30	1.07	59	19	38	2	19	14	24	39	21
ECA25	60	35	662.0	1	27	1.33	45	19	26	0	16	12	13	35	21
ECA26	63	41	741.9	1	46	0.81	78	34	32	12	16	13	19	60	33
ECA27	57	39	564.0	3	34	0.81	70	28	36	6	12	11	23	39	26
ECA28	54	45	456.2	1	23	0.95	57	30	27	0	16	12	16	37	29
ECA29	51	33	626.3	1	27	0.96	53	28	23	2	9	8	15	31	25
ECA30	48	20	594.1	1	27	1.09	44	26	18	0	9	9	14	34	26
ECA31	45	25	381.7	1	21	1.05	43	18	19	6	11	9	10	27	17
ECAX	153	31	1529.8	5	87	0.69	222	148	72	2	70	64	23	147	122
Unassembled		406													
Total/ average	2952	2462	38,361.4	102	1917	0.77* 0.65**	3816	1937	1737	142	1144	857	920	2670	1904

*Average marker density calculated from chromosome and genome size estimates reported in RH I (1).

** Average marker density calculated from the genome assembly EquCab1.