

The figure displays 1000 Genomes data for 2,504 SNPs across 25 chromosomes. The data is organized into 10 panels, each representing a different genetic region. Each panel contains a grid of data for 25 chromosomes (Chr 1-25). The data is presented as a heatmap where each cell represents a SNP's frequency or value. The panels are labeled with 'Female founder', 'First male', 'F. offspring (D-85-G1 and M1)', 'F. offspring (G3-91 and G4-99)', 'F. offspring (G3-91 and G4-99)', 'F. offspring (G3-91 and G4-99)', 'F. offspring (G3-91 and G4-99)', 'F. offspring (G3-91 and G4-99)', 'F. offspring (G3-91 and G4-99)', and 'F. offspring (G3-91 and G4-99)'. The chromosomes are color-coded: Chr 1-22 are blue, Chr 23-25 are red. The data is presented in a grid where each row represents a chromosome and each column represents a SNP. The values are represented by a color scale from 0 to 1000. The figure is a detailed representation of the 1000 Genomes data, showing the genetic variation across 2,504 SNPs and 25 chromosomes.

		Chr 1		F_1		F_2		M1_1		M1_2		M2_1		M2_2	
		window:		0		1		2		3		4		5	
Female founder	D-85-01	4		2		4		1		1		1		1	
	D-85-01	1		8		9		17		25		3		22	
First male	M1_1	2		6		14		19		11		3		1	
	D-85-02	24		12		1		8		5		10		11	
F offspring (D-85-01 and M1_1)	D-84-03	24		12		1		8		5		10		11	
	D-84-03	1		8		9		17		25		3		22	
	D-85-02	2		6		14		19		11		3		1	
	D-85-02	1		8		9		17		25		3		22	
	3-86-01	2		6		14		19		11		3		1	
	3-86-01	1		8		9		17		25		3		22	
	G1-87														
	G3-91														
	G1-88														
	G2-91														
F offspring (G3-91 and G4-93)	4-0-89-01	1		8		9		17		25		3		22	
	4-0-89-01	4		2		14		19		11		3		1	
	5-91-01	2		6		14		19		11		3		1	
	5-91-01	2		6		14		19		11		3		1	
	G5-93														
	G4-93														
F offspring (G3-91 and G4-93)	16-0-89-03	2		6		14		19		11		3		1	
	16-0-89-03	4		2		14		19		11		3		1	
	17-0-92-05	2		6		14		19		11		3		1	
	17-0-92-05	24		12		1		8		5		10		11	
	30-0-93-02	1		8		9		17		25		3		22	
	30-0-93-02	4		2		14		19		11		3		1	
F offspring (G3-91 and G4-93)	6-M-98-02	2		6		14		19		11		3		1	
	6-M-98-02	24		12		1		8		5		10		11	
	31-0-93-03	2		6		14		19		11		3		1	
	31-0-93-03	1		8		9		17		25		3		22	
F offspring (G3-91 and G4-93)	19-0-94-01	2		6		14		19		11		3		1	
	19-0-94-01	2		6		14		19		11		3		1	
	57-0-92-06	24		12		1		8		5		10		11	
	57-0-92-06	1		8		9		17		25		3		22	
Second male	M2_1	8		1		8		4		2		2		7	
	M2_2	32		16		18		3		20		4		25	
	G2-91	1		8		9		17		25		3		22	
	G2-91	2		6		14		19		11		3		1	
F offspring (G2-91 and M2_1)	94-0-92-01	32		16		18		3		20		4		25	
	94-0-92-01	1		8		9		17		25		3		22	
	99-0-96-01	1		8		9		17		25		3		22	
	99-0-96-01	28		14		28		7		14		28		7	
	43-0-92-02	1		8		9		17		25		3		22	
	43-0-92-02	32		16		18		3		20		4		25	
	D-91-01	1		8		9		17		25		3		22	
	D-91-01	8		1		8		4		2		2		7	
	84-92	2		6		14		19		11		3		1	
	22-0-99-02	2		6		14		19		11		3		1	
11-M-98-03	11-M-98-03	2		6		14		19		11		3		1	
	11-M-98-03	8		1		8		4		2		2		7	

		Chr 2				F_1		F_2		M1_1		M1_2		M2_1		M2_2																																																																																																																																																															
		window:		0		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85	
Female founder	D-85-01			1	1	1	1	2	0	0	0	1	1	1	1	8	2	2	2	3	2	4	9	6	3	19	22	1	18	42	9	4	3	11	31	12	10	37	16	25	30	7	1	3	2	1	30	20	1	3	6	8	10	29	21	4	1	3	27	8	18	10	3	1	20	31	8	28	35	41	6	35	42	38	6	18	32	3	17	8	7	15	27	21	38	8	29	11	35	20	50	1	2	38	8																																																																																
	D-85-01			12	13	18	2	0	0	0	2	2	4	32	37	30	8	10	4	29	4	14	8	18	4	26	10	21	27	41	39	23	24	29	30	17	7	22	17	12	34	10	41	19	26	21	18	26	27	12	19	15	29	12	28	29	7	21	31	13	6	13	27	13	5	37	14	30	26	16	32	19	35	6	4	31	28	35	29	32	42	1	116	10	50	19	46	8	71	4																																																																																					
First male	M1_1			12	13	18	14	0	0	0	0	19	22	6	32	1	21	29	9	15	24	20	7	25	10	29	26	10	23	30	23	21	1	25	21	3	19	2	6	15	17	18	27	19	26	21	18	26	30	11	22	11	3	6	20	23	10	3	4	4	32	1	38	13	4	33	32	17	21	11	X	30	26	20	33	40	3	11	9	42	35	9	17	13	11	19	50	10	17	4																																																																																					
	M1_2			13	16	12	29	0	0	0	29	9	21	6	11	4	32	6	22	30	17	50	11	4	22	23	15	8	32	20	18	18	22	25	24	26	11	15	2	3	1	31	6	32	16	15	9	17	14	1	1	3	2	8	12	26	4	15	8	32	22	15	42	3	37	29	24	5	18	7	15	20	45	36	24	3	7	3	37	1	31	21	27	27	11	19	50	10	17	4																																																																																					
F ₁ offspring (D-85-01 and M1)	D-84-03			12	13	18	2	0	0	0	2	4	32	37	31	2	2	2	3	2	4	9	6	3	19	22	1	18	42	9	4	3	11	31	12	10	37	16	25	30	7	1	3	2	1	30	20	1	3	6	8	10	29	21	4	1	3	27	8	18	10	3	1	20	31	8	28	35	41	6	35	42	38	6	18	32	3	17	8	7	15	27	21	38	8	29	11	35	20	50	1	2	38	8																																																																																	
	D-84-03			12	13	18	14	0	0	0	0	19	22	6	32	1	21	29	9	15	24	20	7	25	10	29	26	10	23	30	23	21	1	25	21	3	19	2	6	15	17	18	27	19	26	21	18	26	30	11	22	11	3	6	20	23	10	3	4	4	32	1	38	13	4	33	32	17	21	11	X	30	26	20	33	40	3	11	9	42	35	9	17	13	11	19	50	10	17	4																																																																																					
	D-85-02			12	13	18	14	0	0	0	0	19	22	6	32	1	21	29	9	15	24	20	7	25	10	29	26	10	23	30	23	21	1	25	21	3	19	2	6	15	17	18	27	19	26	21	18	26	30	11	22	11	3	6	20	23	10	3	4	4	32	1	38	13	4	33	32	17	21	11	X	30	26	20	33	40	3	11	9	42	35	9	17	13	11	19	50	10	17	4																																																																																					
	D-85-02			12	13	18	2	0	0	0	2	2	4	32	37	30	8	10	4	29	4	14	8	18	4	26	10	21	27	41	39	23	24	29	30	17	7	22	17	12	34	10	41	19	26	21	18	26	27	12	19	15	29	12	28	29	7	21	31	13	6	13	27	13	5	37	14	30	26	16	32	19	35	6	4	31	28	35	29	32	42	1	116	10	50	19	46	8	71	4																																																																																					
	3-D-86-01			12	13	18	14	0	0	0	0	19	22	6	32	1	21	29	9	15	24	20	7	25	10	29	26	10	23	30	23	21	1	25	21	3	19	2	6	15	17	18	27	19	26	21	18	26	30	11	22	11	3	6	20	23	10	3	4	4	32	1	38	13	4	33	32	17	21	11	X	30	26	20	33	40	3	11	9	42	35	9	17	13	11	19	50	10	17	4																																																																																					
	3-D-86-01			12	13	18	2	0	0	0	2	2	4	32	37	30	8	10	4	29	4	14	8	18	4	26	10	21	27	41	39	23	24	29	30	17	7	22	17	12	34	10	41	19	26	21	18	26	27	12	19	15	29	12	28	29	7	21	31	13	6	13	27	13	5	37	14	30	26	16	32	19	35	6	4	31	28	35	29	32	42	1	116	10	50	19	46	8	71	4																																																																																					
	G1-87																																																																																																																																																																														
	G3-91																																																																																																																																																																														
	G1-88																																																																																																																																																																														
	G2-91																																																																																																																																																																														
F ₁ offspring (G3-91 and G1-87)	4-D-89-01			13	16	12	29	0	0	0	28	1	1	1	1	8	2	2	2	3	2	4	9	6	3	19	22	1	18	42	9	4	3	11	31	12	10	37	16	25	30	7	1	3	2	1	30	20	1	3	6	8	10	29	21	4	1	3	27	8	18	10	3	1	20	31	8	28	35	41	6	35	42	38	6	18	32	3	17	8	7	15	27	21	38	8	29	11	35	20	50	1	2	38	8																																																																																
	4-D-89-01			12	13	18	14	0	0	0	0	19	22	6	32	1	21	29	9	15	24	20	7	25	10	29	26	10	23	30	23	21	1	25	21	3	19	2	6	15	17	18	27	19	26	21	18	26	30	11	22	11	3	6	20	23	10	3	4	4	32	1	38	13	4	33	32	17	21	11	X	30	26	20	33	40	3	11	9	42	35	9	17	13	11	19	50	10	17	4																																																																																					
	5-D-91-01			12	13	18	14	0	0	0	0	19	22	6	32	1	21	29	9	15	24	20	7	25	10	29	26	10	23	30	23	21	1	25	21	3	19	2	6	15	17	18	27	19	26	21	18	26	30	11	22	11	3	6	20	23	10	3	4	4	32	1	38	13	4	33	32	17	21	11	X	30	26	20	33	40	3	11	9	42	35	9	17	13	11	19	50	10	17	4																																																																																					
	5-D-91-01			13	16	12	29	0	0	0	29	9	21	6	11	4	32	6	22	30	17	50	11	4	22	23	15	8	32	20	18	18	22	25	24	26	11	15	2	3	1	31	6	32	16	15	9	17	14	1	1	3	2	8	12	26	4	15	8	32	22	15	42	3	37	29	24	5	18	7	15	20	45	36	24	3	7	3	37	1	31	21	27	27	11	19	50	10	17	4																																																																																					
	G5-93																																																																																																																																																																														
	G4-93																																																																																																																																																																														
F ₁ offspring (G3-91 and G1-88)	16-D-89-03			12	13	18	14	0	0	0	0	19	22	6	32	1	21	29	9	15	24	20	7	25	10	29	26	10	23	30	23	21	1	25	21	3	19	2	6	15	17	18	27	19	26	21	18	26	30	11	22	11	3	6	20	23	10	3	4	4	32	1	38	13	4	33	32	17	21	11	X	30	26	20	33	40	3	11	9	42	35	9	17	13	11	19	50	10	17	4																																																																																					
	16-D-89-03			13	16	12	29	0	0	0	29	9	21	6	11	4	32	6	22	30	17	50	11	4	22	23	15	8	32	20	18	18	22	25	24	26	11	15	2	3	1	31	6	32	16	15	9	17	14	1	1	3	2	8	12	26	4	15	8	32	22	15	42	3	37	29	24	5	18	7	15	20	45	36	24	3	7	3	37	1	31	21	27	27	11	19	50	10	17	4																																																																																					
	17-D-92-05			1	1	1	2	0	0	0	1	1	1	1	8	2	2	2	3	2	4	9	6	3	19	22	1	18	42	9	4	3	11	31	12	10	37	16	25	30	7	1	3	2	1	30	20	1	3	6	8	10	29	21	4	1	3	27	8	18	10	3	1	20	31	8	28	35	41	6	35	42	38	6	18	32	3	17	8	7	15	27	21	38	8	29	11	35	20	50	1	2	38	8																																																																																	
	17-D-92-05			12	13	18																																																																																																																																																																									

Chr 3		window:		F_1		F_2		M1_1		M1_2		M2_1		M2_2																																																																															
Female founder	D-85-01	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91
	D-85-01	14	1	13	8	14	13	19	6	19	30	3	26	1	16	27	4	33	3	21	19	14	12	23	14	7	20	2	30	4	26	22	9	21	12	28	25	28	28	12	27	7	17	2	18	22	22	22	24	23	45	21	17	13	7	32	13	5	37	33	5	23	5	45	15	7	21	19	22	8	30	27	25	27	38	24	39	34	38	4	43	24	21	38	13	15	21	23	39	34	3	31	
First male	M1_1	2	11	8	19	22	9	1	17	10	1	1	29	22	15	1	3	13	27	16	6	35	25	26	6	2	21	30	23	34	14	15	17	12	2	12	29	7	17	2	20	16	17	30	3	31	2	1	7	1	1	2	35	33	12	6	1	1	1	25	2	3	5	21	13	19	18	39	23	12	2	6	23	15	7	11	35	3	22	11	12	25	4	2	5	29							
	M1_2	14	2	3	5	7	10	13	26	21	10	18	7	34	36	20	19	5	15	8	3	1	15	3	10	4	7	4	13	27	17	28	27	6	7	3	14	3	29	7	18	10	16	35	18	21	34	35	3	11	34	7	3	33	28	25	6	11	10	16	11	27	40	14	19	22	8	29	7	6	38	45	35	17	11	7	38	19	16	4	21	38	30	15	2	14	49	11	28				
F ₁ offspring (D-85-01 and M1)	D-84-03	14	12	3	5	7	10	13	26	21	10	18	7	34	36	20	19	5	15	8	3	1	15	3	10	4	7	4	13	27	17	28	27	6	7	3	14	3	29	7	18	10	16	35	18	21	34	35	3	11	34	7	3	33	28	25	6	11	10	16	11	27	40	14	19	22	8	29	7	6	38	45	35	17	11	7	38	19	16	4	21	38	30	15	2	14	49	11	28				
	D-84-03	2	11	8	19	22	9	1	17	10	1	1	29	22	15	1	3	13	27	16	6	35	25	26	6	2	21	30	23	34	14	15	17	12	2	12	29	7	17	2	20	16	17	30	3	31	2	1	7	1	1	2	35	33	12	6	1	1	1	25	2	3	5	21	13	19	18	39	23	12	2	6	23	15	7	11	35	3	22	11	12	25	4	2	5	29							
	D-85-02	1	8	2	1	17	1	2	14	21	4	7	2	1	15																																																																														

		Chr 5				F_1		F_2		M1_1		M1_2		M2_1		M2_2	
		window:		0		1		2		3		4		5		6	
Female founder	D-85-01	3		17		10		5		12		17		17		17	
	D-85-01	9		14		4		15		22		29		9		2	
First male	M1_1	12		8		10		5		9		29		9		2	
	M1_2	1		1		1		2		1		2		8		2	
		4		19		9		12		20		12		25		31	
		4		3		8		26		24		15		40		24	
		3		3		33		31		23		28		7		3	
		8		20		11		21		35		22		25		14	
		7		7		10		8		21		35		28		30	
		3		7		3		9		2		3		1		1	
		1		2		1		2		8		2		2		8	
		5		9		22		34		24		26		7		45	
		4		2		12		15		28		7		38		25	
		6		1		2		10		6		15		4		20	
		4		20		6		6		1		4		10		29	
		7		5		7		18		11		11		29		22	
		3		25		28		9		45		15		32		11	
		1		20		20		10		21		22		33		22	
		2		22		37		37		39		42		18			
		2		4		42		43		44		45		46			
		50		51		52		53		54		55		56			
		57		58		59		60		61		62		63			
		64		65		66		67		68		69		70			
		71		72		73		74		75		76		77			
		78		79		80		81		82		83		84			
		85		86		87		88									

		Chr: 6																	F_1	F_2	M1_1	M1_2	M2_1	M2_2																																																								
		window:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
Female founder	D-85-01		10	14	11	17	12	9	12	23	10	12	37	19	19	13	15	45	45	28	21	25	5	23	1	35	25	7	19	10	23	4	5	29	24	20	20	5	13	5	1	7	26	28	21	25	36	25	26	29	14	7	14	30	17	6	18	35	2	7	2	7	35	17	14	20	30	18	29	17	11	9	34	16	19	34	35	23	58	38
	D-85-01		8	5	2	9	6	3	5	15	4	32	3	15	1	3	132	3	3	19	17	42	9	15	29	27	29	8	29	22	16	28	23	23	4	27	26	5	13	17	2	13	11	28	21	13	21	16	5	30	33	36	10	19	30	26	33	27	11	28	15	31	30	22	11	11	18	29	17	14	7	15	17	48	36	32	40	11	27	
First male	M1_1		9	2	8	13	15	5	18	9	27	20	25	7	20	11	32	8	10	1	23	9	31	12	1	35	25	9	11	35	23	2	23	13	4	33	41	16	4	24	15	11	27	4	21	24	11	3	17	12	41	5	28	7	20	21	2	15	18	6	18	12	19	1	23	8	4	4	9	7	1	1	3	1	1	1	1	1	20	
	M1_2		13	9	5	4	2	20	16	10	6	23	32	35	12	5	21	2	27	30	42	2	2	27	4	27	2	13	32	2	16	5	20	1	8	29	27	26	5	13	17	14	22	18	1	34	33	25	26	29	14	7	12	18	9	8	43	20	27	11	28	15	31	30	22	11	11	18	29	21	5	15	13	27	31	29	15	35	36	4
F ₂ offspring (D-85-01 and M1)	D-84-03		8	5	2	9	6	3	5	15	4	32	3	15	1	3	132	3	3	19	17	42	9	15	29	27	29	8	29	22	16	28	23	23	4	27	26	5	13	17	2	13	11	28	21	13	21	16	5	30	33	36	10	19	30	26	33	27	11	28	15	31	30	22	11	11	18	29	17	11	9	34	16	19	34	35	23	58	38	
	D-84-03		9	2	8	13	15	5	18	9	27	20	25	7	20	11	32	8	10	1	23	9	31	12	1	35	25	9	11	35	23	2	23	13	4	33	41	16	4	24	15	11	27	4	21	24	11	3	17	12	41	5	28	7	20	21	2	15	18	6	18	12	19	1	23	8	4	4	9	7	1	1	3	1	1	1	1	1	20	
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	D-85-01	5	2	1	21	19	28	22	17	11	19	36	18	10	20	2	14	35	36	21	12	30	30	26	10	4	33	31	16	11	1	2	28	3	8	1	1	1	23	29	18	35	11	7	4	1	37	7	1	10	20	18	3	1	8	24	8	7	14	13	16	6	23	13	29	34	29	9	25	1	28	13	30	7	9	41	30	10	35	10	22	13
	D-85-01	24	6	11	7	21	20	28	29	31	1	1	11	8	2	4	25	7	5	19	8	17	3	20	26	28	31	1	5	21	9	13	34	10	1	18	5	9	1	18	22	26	14	3	1	34	16	24	22	12	31	5	20	10	26	34	21	14	11	4	11	23	28	45	49	22	48	27	38	3	8	40	40	22	46	1	21	22	26	13	3	45
First male	M1_1	21	1	9	18	4	19	19	21	15	10	44	2	24	29	6	1	2	8	4	6	4	7	1	4	16	9	9	11	4	2	33	13	31	21	9	29	20	26	12	26	42	5	25	29	22	4	19	17	27	23	27	27	31	3	10	25	4	45	22	29	8	10	36	11	15	24	17	22	23	21	29	4	33	42	4	16	30	33	8	29	6
	M1_2	7	11	14	20	15	10	1	14	21	5	41	13	5	19	1	20	11	8	4	6	4	10	28	24	18	18	13	13	13	29	6	18	32	18	27	23	10	17	21	9	40	8	1	8	22	4	19	17	27	23	27	27	31	3	10	25	4	45	22	29	8	10	36	11	15	24	10	50	35	10	17	14	9	37	27	34	8	19	15	31	3
F ₁ offspring (D-85-01 and M1)	D-84-03	21	1	9	18	4	19	19	21	15	10	44	2	24	29	6	1	2	8	4	6	4	7	1	4	16	9	9	11	4	2	33	13	31	21	9	29	20	26	12	26	40	8	1	8	22	4	19	17	27	23	27	27	31	3	10	25	4	45	22	29	8	10	36	11	15	24	10	50	35	10	17	14	9	37	27	34	8	19	15	31	3
	D-84-03	5	2	1	21	19	28	22	17	11	19	36	18	10	20	2	14	35	36	21	12	30	30	26	10	4	33	31	16	11	1	2	28	3	8	1	1	1	23	29	18	35	11	7	4	1	37	7	1	10	20	18	3	1	8	24	8	7	14	13	16	6	23																			

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The figure displays a complex pedigree chart showing inheritance patterns across multiple generations (F0 to F4) and sexes (Male, Female). The chart is organized into columns for each generation and rows for each individual. The top row shows the parents (F0), followed by their offspring (F1), and then subsequent generations (F2, F3, F4). The bottom row shows the offspring of the F4 generation. The chart is a detailed representation of a pedigree chart, showing the flow of genetic information across generations.

Legend:

- Sex:** Male (light blue background), Female (light pink background).
- Generation:** F0 (Parents), F1 (Offspring of F0), F2 (Offspring of F1), F3 (Offspring of F2), F4 (Offspring of F3).
- Chromosome:** Chr 1 to Chr 60.
- Color Coding:** Chromosomes are color-coded by sex: Male (light blue) and Female (light pink). Some chromosomes are highlighted in red, yellow, or green to indicate specific genetic markers or mutations.

Key Observations:

- The chart shows the inheritance of chromosomes from parents to offspring, with some chromosomes highlighted in red, yellow, or green to indicate specific genetic markers or mutations.
- The chart is a detailed representation of a pedigree chart, showing the flow of genetic information across generations.

Figure 1: Genetic analysis of the *Chr 10* region. The figure displays a series of plots showing the distribution of genetic markers across the chromosome, categorized by sex and generation.

The top section shows the **Female founder** and **First male** individuals. The **Female founder** plot shows the distribution of markers across the chromosome, with markers numbered 1 to 69. The **First male** plot shows the distribution of markers across the chromosome, with markers numbered 1 to 69.

The middle section shows the **F₁ offspring** (D-85-01 and M1-1) and **F₂ offspring** (G3-91 and G1-87). The **F₁ offspring** plot shows the distribution of markers across the chromosome, with markers numbered 1 to 69. The **F₂ offspring** plot shows the distribution of markers across the chromosome, with markers numbered 1 to 69.

The bottom section shows the **Second male** individuals. The **Second male** plot shows the distribution of markers across the chromosome, with markers numbered 1 to 69.

The figure includes a legend for the **Chr 10** region, with markers numbered 1 to 69. The legend indicates the following categories:

- Female founder**: D-85-01 (yellow), D-85-01 (orange)
- First male**: M1_1 (green), M1_2 (blue)
- F₁ offspring**: D-85-01 and M1-1 (green, orange)
- F₂ offspring**: G3-91 and G1-87 (green, orange)
- Second male**: M2_1 (blue), M2_2 (orange)
- F₃ offspring**: G3-91 and G4-93 (green, orange)
- F₄ offspring**: G3-91 and G4-93 (green, orange)
- F₅ offspring**: G3-91 and G4-93 (green, orange)
- F₆ offspring**: G3-91 and G4-93 (green, orange)
- F₇ offspring**: G3-91 and G4-93 (green, orange)
- F₈ offspring**: G3-91 and G4-93 (green, orange)
- F₉ offspring**: G3-91 and G4-93 (green, orange)
- F₁₀ offspring**: G3-91 and G4-93 (green, orange)
- F₁₁ offspring**: G3-91 and G4-93 (green, orange)
- F₁₂ offspring**: G3-91 and G4-93 (green, orange)
- F₁₃ offspring**: G3-91 and G4-93 (green, orange)
- F₁₄ offspring**: G3-91 and G4-93 (green, orange)
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- F₁₈ offspring**: G3-91 and G4-93 (green, orange)
- F₁₉ offspring**: G3-91 and G4-93 (green, orange)
- F₂₀ offspring**: G3-91 and G4-93 (green, orange)
- F₂₁ offspring**: G3-91 and G4-93 (green, orange)
- F₂₂ offspring**: G3-91 and G4-93 (green, orange)
- F₂₃ offspring**: G3-91 and G4-93 (green, orange)
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- F₆₉ offspring**: G3-91 and G4-93 (green, orange)

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Female founder	D-85-01	82712102329176222854302121311526264311727215152714161679271314109131111242133101135259119232713928181021112115383839929519621																																																																									
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	16-D-89-03	2014162615513327225511314311526264311727215152714161679271314109131111242133101135259119232713928181021112115383839929519621																																																																									
	17-D-92-05	845924524291174189242273021125314321434418936112033251826132161034266116621101135259119232713928171143203973131626362515																																																																									
	17-D-92-05	2014162615513327225511315248624262630937226193130142224102328262129241411116627228261511018178292221522171935101183817162131613																																																																									
	30-D-93-02	82712102329176222854302121311526264311727215152714161679271314109131111242133101135259119232713928181021112115383839929519621																																																																									
	30-D-93-02	845924524291174189242273021125314321434418936112033251826132161034266116621319171181761741211021511143320398154517162131613																																																																									
F ₃ offspring (G5-93 and G4-93)																																																																											
	6-M-98-02	8271210232917622285430212131152626431172																																																																									

		Chr 13			F_1	F_2	M1_1	M1_2	M2_1	M2_2																																																														
		window:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63						
Female founder	D-85-01		1	1	1	1	1	2	1	1	10	4	19	2	22	2	18	28	30	23	29	4	22	37	2	4	13	2	7	28	1	4	35	14	4	21	22	1	25	5	21	5	1	2	30	29	4	16	20	25	8	27	18	8	26	12	38	32	45	22	32	48	24	39	6	8						
	D-85-01		2	6	2	6	18	16	2	14	25	20	8	26	8	35	6	28	30	25	33	9	10	1	33	3	11	16	30	18	19	26	12	7	20	8	39	32	7	4	5	29	32	20	7	31	12	44	36	8	23	34	34	36	1	10	1	15	38	1	5	6	19	8	60	2						
First male	M1_1		1	13	7	13	13	5	14	6	22	6	18	11	17	33	29	11	11	29	27	35	32	33	22	1	6	20	6	36	28	14	1	22	26	26	7	21	4	4	6	41	11	29	5	21	33	35	41	29	18	37	50	33	20	32	4	22	19	33	27	27	58	46	52	3						
	M1_2		1	13	7	13	13	5	14	6	22	6	18	11	17	33	29	11	11	29	27	35	32	33	22	1	6	20	6	36	28	14	1	22	26	26	7	21	4	4	6	41	11	29	5	21	33	35	41	29	18	37	50	33	20	32	4	22	19	35	11	45	44	27	47	2						
F ₁ offspring (D-85-Q1 and M1)	D-84-03		1	13	7	13	13	5	14	6	22	6	18	11	17	33	29	11	11	29	27	35	32	33	22	1	6	20	6	36	28	14	1	22	26	26	7	21	4	4	6	41	11	29	5	21	33	35	41	29	18	37	50	33	20	32	4	22	19	33	27	27	58	46	52	3						
	D-84-03		2	6	2	6	18	16	2	14	25	20	8	26	8	35	6	28	30	25	33	9	10	1	33	3	11	16	30	18	19	26	12	7	20	8	39	32	7	4	5	29	32	20	7	31	12	44	36	8	23	34	34	36	9	12	38	32	45	22	32	48	24	39	6	8						
	D-85-02		1	1	1	1	1	2	1	1	10	4	19	2	22	2	18	28	30	23	29	4	22	37	2	4	13	2	7	28	1	4	35	14	4	21	22	1	25	5	21	5	1	2	30	29	4	16	20	25	8	27	18	8	26	12	38	32	45	22	32	48	24	39	6	8						
	D-85-02		1	13	7	13	13	5	14	6	22	6	18	11	17	33	29	11	11	29	27	35	32	33	22	1	6	20	6	36	28	14	1	22	26	26	7	21	4	4	6	41	11	29	5	21	33	35	41	29	18	37	50	33	20	32	4	22	1													

		Chr 14	F_1												F_2												M1_1												M1_2												M2_1												M2_2																																																																																																																																																																																																																																																																																																																																																																																																																																																								
window:		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Female founder	D-85-01	0	8	3	1	1	1	1	1	1	1	1	1	5	13	23	26	23	26	9	15	27	6	18	27	28	11	26	30	12	32	26	7	14	11	16	30	22	4	34	30	1	10	8	42	12	7	39	33	1	3	10	20	3	22	1	17	21	11	17	30	20																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	D-85-01	0	7	19	6	2	10	4	11	14	15	19	6	2	1	1	1	1	1	1	1	1	1	1	1	2	3	22	13	22	23	37	7	11	8	27	28	8	24	29	8	35	29	12	49	39	23	23	42	32	21	7	2	32	15	38	12	12	39	6	21	50	2																																																																																																																																																																																																																																																																																																																																																																																																																																																								
First male	M1_1		8	3	1	1	1	1	1	1	3	1	5	13	23	26	23	20	25	3	16	15	36	20	22	13	34	16	22	29	16	13	22	24	5	35	16	16	14	5	25	30	18	44	14	6	5	9	10	18	31	13	15	38	12	12	39	7	6	9	1																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	M1_2		12	4	3	13	7	20	21	10	21	9	6	2	1	1	1	1	1	1	1	1	1	1	1	2	3	22	13	22	26	16	34	30	11	13	13	3	33	6	11	25	22	23	24	2	25	1	33	19	28	15	12	33	37	30	19	24	29	19	6	9	1																																																																																																																																																																																																																																																																																																																																																																																																																																																								
F ₂ offspring (D-85-01 and M1)	D-84-03	0	8	3	1	1	1	1	1	1	1	1	1	5	13	23	26	23	26	9	15	27	6	18	27	28	11	26	30	12	32	26	7	14	11	16	30	22	4	34	30	1	10	8	42	12	7	39	33	1	3	10	20	3	22	1	17	21	11	17	30	20																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	D-84-03	0	8	3	1	1	1	1	1	1	3	1	5	13	23	26	23	20	25	3	16	15	36	20	22	13	34	16	22	29	16	13	22	24	5	35	16	16	14	5	25	30	18	44	14	6	5	9	10	18	31	13	15	38	12	12	39	7	6	9	1																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	D-85-02	0	12	4	3	13	7	20	21	10	21	9	6	2	1	1	1	1	1	1	1	1	1	1	1	2	3	22	13	22	26	16	34	30	11	13	13	3	33	6	11	25	22	23	24	2	25	1	33	19	28	15	12	33	37	30	19	24	29	19	6	9	1																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	D-85-02	0	7	19	6	2	10	4	11	14	15	19	6	2	1	1	1	1	1	1	1	1	1	1	1	2	3	22	13	22	23	37	7	11	8	27	28	8	24	29	8	35	29	12	49	39	23	23	42	32	21	7	2	32	15	38	12	12	39	6	21	50	2																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	3-D-86-01	0	8	3	1	1	1	1	1	1	1	3	1	5	13	23	26	23	20	25	3	16	15	36	20	22	13	34	16	22	29	16	13	22	24	5	35	16	16	14	5	25	30	18	44	14	6	5	9	10	18	31	13	15	38	12	12	39	7	6	9	1																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	3-D-86-01	0	8	3	1	1	1	1	1	1	1	1	1	5	13	23	26	23	26	5	1	1	1	1	2	3	22	13	22	23	37	7	11	8	27	28	8	24	29	8	35	29	12	49	39	23	23	42	32	21	7	2	32	15	38	12	12	39	6	21	50	2																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	G1-87																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

Chr 15

F_1

F_2

M1_1

M1_2

M2_1

M2_2

Female founder

D-85-01

D-85-01

First male

M1_1

M1_2

F₂ offspring (D-85-01 and M1)

D-84-03

D-84-03

D-85-02

D-85-02

3-D-86-01

3-D-86-01

G1-87

G3-91

G1-88

G2-91

F₂ offspring (G3-91 and G1-87)

4-D-89-01

4-D-89-01

5-D-91-01

5-D-91-01

G5-93

G4-93

F₂ offspring (G3-91 and G1-88)

16-D-89-03

16-D-89-03

17-D-92-05

17-D-92-05

30-D-93-02

30-D-93-02

F₂ offspring (G5-93 and G4-93)

6-M-98-02

6-M-98-02

31-D-93-03

31-D-93-03

F₂ offspring (G3-91 and G4-93)

19-D-94-01

19-D-94-01

57-D-92-06

57-D-92-06

Second male

M2_1

M2_2

G2-91

G2-91

F₂ offspring (G2-91 and M2)

94-D-92-01

94-D-92-01

59-D-96-01

59-D-96-01

43-D-92-02

43-D-92-02

D-93-01

D-93-01

8492

8492

22-D-99-02

22-D-99-02

11-M-98-03

11-M-98-03

		Chr 16	F_1		F_2		M1_1		M1_2		M2_1		M2_2																																																
window:		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
Female founder	D-85-01	8	10	2	11	3	15	1	13	7	14	6	2	16	34	15	17	33	3	4	4	1	31	1	10	1	1	34	35	35	13	30	38	35	4	11	5	40	29	8	5	1	1	10	2	8	3	8	16	36	4	1	40	8	29	7	57	44	15	22	0
	D-85-01	34	19	7	13	16	3	9	11	13	19	24	32	6	26	10	27	17	15	11	6	12	23	17	19	24	9	9	29	22	1	1	1	1	1	1	1	1	3	19	9	5	2	34	1	5	34	37	27	52	18	36	36	4	10	28	23	24	27	0	
First male	M1_1	5	3	19	16	4	5	17	8	5	1	42	6	21	1	1	1	8	28	16	6	12	23	17	19	21	4	13	23	3	33	24	1	1	1	1	3	22	32	9	34	43	7	27	11	3	46	13	2	14	2	6	4	11	36	14	56	48	27	37	0
	M1_2	34	19	7	13	16	3	9	11	14	22	11	36	20	16	12	25	21	10	38	15	39	16	12	13	8	24	29	7	28	27	37	20	16	15	6	24	34	10	35	38	6	41	7	32	35	44	24	25	32	27	27	26	2	2	36	8	27	3	2	0
F ₁ offspring (D-85-01 and M1)	D-84-03	5	3	19	16	4	5	17	8	5	1	42	6	21	1	1	1	8	28	16	6	12	23	17	19	21	4	13	23	3	33	24	1	1	1	1	3	22	32	9	34	43	7	27	11	3	46	13	2	14	2	6	4	11	36	14	56	48	27	37	0
	D-84-03	8	10	2	11	3	15	1	13	7	14	6	2	16	34	15	17	33	3	4	4	1	31	1	10	1	1	34	35	35	13	30	38	35	4	11	5	40	29	10	19	9	5	2	34	1	5	34	37	27	52	18	36	36	4	10	28	23	24	27	0
	D-85-02	8	10	2	11	3	15	1	13	7	14	6	2	16	34	15	17	33	3	4	4	1	31	1	10	1	1	34	35	35	13	30	38	35	4	11	5	40	29	8	5	1	1	10	2	8	3	8	16	36	4	1	40	8	29	7	57	44	15	22	0
	D-85-02	34	19	7	13	16	3	9	11	14	22	11	36	20	16	12	25	21	10	38	15	39	16	12	13	8	24	29	7	28	27	37	20	16	15	6	24	34	10	35	38	6	41	7	32	35	44	24	25	32	27	27	26	2	2	36	8	27	3	2	0
	3-D-86-01	34	19	7	13	16	3	9	11	14	22	11	36	20	16	12	25	21	10	38	15	39	16	12	13	8	24	29	7	28	27	37	20	16	1																										

Chr 17

F_1 F_2 M1_1 M1_2 M2_1 M2_2

window: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64

Female founder

D-85-01

D-85-01

First male

M1_1

M1_2

F₂ offspring (D-85-01 and M1)

D-84-03

D-84-03

D-85-02

D-85-02

3-D-86-01

3-D-86-01

G1-87

G3-91

G1-88

G2-91

F₃ offspring (G3-91 and G1-87)

4-D-89-01

4-D-89-01

5-D-91-01

5-D-91-01

G5-93

G4-93

F₄ offspring (G3-91 and G1-88)

16-D-89-03

16-D-89-03

17-D-92-05

17-D-92-05

30-D-93-02

30-D-93-02

F₅ offspring (G5-93 and G4-93)

6-M-98-02

6-M-98-02

31-D-93-03

31-D-93-03

F₆ offspring (G3-91 and G4-93)

19-D-94-01

19-D-94-01

57-D-92-06

57-D-92-06

Second male

M2_1

M2_2

G2-91

G2-91

F₇ offspring (G2-91 and M2)

94-D-92-01

94-D-92-01

59-D-96-01

59-D-96-01

43-D-92-02

43-D-92-02

D-93-01

D-93-01

8492

8492

22-D-99-02

22-D-99-02

11-M-98-03

11-M-98-03

		Chr 18	F_1		F_2		M1_1		M1_2		M2_1		M2_2																																												
window:		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
Female founder	D-85-01	1 9 2 1 17 8 1 2 4 24 6 14 11 22 32 8 9 11 23 20 1 36 18 31 31 5 21 31 24 36 11 4 3 42 1 40 5 16 34 16 19 20 39 31 10 31 38 43 4 37 27 20 27 16 16 47																																																							
	D-85-01	11 2 10 4 15 3 26 29 10 17 3 16 25 11 25 7 30 23 2 32 7 14 22 13 13 31 12 7 48 15 19 33 42 37 14 33 17 12 30 18 6 13 2 33 52 13 5 47 34 30 26 27 35 4 36 27																																																							
First male	M1_1	20 6 9 4 15 13 11 35 2 7 11 33 4 15 11 8 18 4 30 7 14 18 33 22 21 27 22 4 37 23 26 11 28 18 13 56 2 7 3 35 1 3 2 14 5 12 10 15 41 1 19 24 14 12 9 6																																																							
	M1_2	22 11 15 10 14 17 24 15 16 1 21 47 11 22 32 8 9 11 23 20 1 36 17 28 6 15 5 40 32 39 37 21 15 21 33 2 13 11 41 24 22 27 29 24 31 4 42 16 27 5 9 29 32 29 43 43																																																							
F1 offspring (D-85-01 and M1)	D-84-03	20 6 9 4 15 13 11 35 2 7 11 33 4 15 11 8 18 4 30 7 14 18 33 22 21 27 22 4 37 23 26 11 28 18 13 56 2 7 3 35 1 3 2 14 5 12 10 15 41 1 19 24 14 7 83 43																																																							
	D-84-03	11 2 10 4 15 3 26 29 10 17 3 16 25 11 25 7 30 23 2 32 7 14 22 13 13 31 12 7 48 15 19 33 42 37 14 33 17 12 30 18 6 13 2 33 52 13 5 47 34 30 26 27 35 4 36 27																																																							
	D-85-02	1 9 2 1 17 8 1 2 4 24 6 14 11 22 32 8 9 11 23 20 1 36 18 31 31 5 21 31 24 36 11 4 3 42 1 40 5 16 34 16 19 20 39 31 10 31 38 43 4 37 27 20 27 16 16 47																																																							
	D-85-02	20 6 9 4 15 13 11 35 2 7 11 33 4 15 11 8 18 4 30 7 14 18 33 22 21 27 22 4 37 23 26 11 28 18 13 56 2 7 3 35 1 3 2 14 5 12 10 15 41 1 19 24 14 12 9																																																							
	3-D-86-01	1 9 2 1 17 8 1 2 4 24 6 14 11 22 32 8 9 11 23 20 1 36 18 31 31 5 21 31 24 36 11 4 3 42 1 40 5 16 34 16 19 20 37 33 52 13 5 47 34 30 26 27 35 4 36 27																																																							
	3-D-86-01	22 11 15 10 14 17 24 15 16 1 21 47 11 22 32 8 9 11 23 20 1 36 17 28 6 15 5 40 32 39 37 21 15 21 33 2 13 11 41 24 22 27 29 24 31 4 42 16 27 5 9 29 32 29 43 43																																																							
	G1-87																																																								
	G3-91																																																								
	G1-88																																																								
	G2-91																																																								
	F2 offspring (G3-91 and G1-87)	4-D-89-01	1 9 2 1 17 8 1 2 4 24 6 14 11 22 32 8 9 11 23 20 1 36 18 31 31 5 21 31 24 36 11 4 3 42 1 40 5 16 34 16 19 20 39 31 10 31 38 43 4 37 27 20 27 16 16 47																																																						
		4-D-89-01	22 11 15 10 14 17 22 35 2 7 11 33 4 15 11 8 18 4 30 7 14 18 33 22 21 27 22 4 37 23 26 11 28 18 13 56 2 7 3 35 1 3 2 14 5 12 10 15 41 1 19 24 14 12 8 27																																																						
		5-D-91-01	1 9 2 1 17 8 1 2 4 24 6 14 11 22 32 8 9 11 23 20 1 36 17 28 6 15 5 40 32 39 37 21 15 21 33 2 13 11 41 24 22 27 29 24 31 4 42 16 27 5 9 29 32 29 43 43																																																						
		5-D-91-01	1 9 2 1 17 8 1 1 2 7 11 33 4 15 11 8 18 4 30 7 14 18 33 22 21 27 22 4 37 23 26 11 28 18 13 56 2 7 3 35 1 3 2 14 5 12 10 15 41 1 19 24 14 12 9 6																																																						
G5-93																																																									
G4-93																																																									
F2 offspring (G3-91 and G1-88)		16-D-89-03	1 9 2 1 18 17 22 35 2 7 11 33 4 15 11 8 18 4 30 7 14 18 33 22 21 27 22 4 37 23 26 11 28 18 13 56 2 7 3 35 1 3 2 14 5 12 10 15 41 1 19 24 14 12 9 6																																																						
	16-D-89-03	22 11 15 10 14 17 24 15 16 1 21 47 11 22 32 8 9 11 23 20 1 36 17 28 6 15 5 40 32 39 37 21 15 21 33 2 13 11 41 24 22 27 29 24 31 4 42 16 27 5 9 29 32 29 43 43																																																							
	17-D-92-05	1 9 2 1 17 8 1 2 4 24 6 14 11 22 32 8 9 11 23 20 1 36 18 31 31 5 21 31 24 36 11 4 2 18 13 56 2 7 3 35 1 3 2 14 5 12 10 15 41 1 19 24 14 12 9 6																																																							
	17-D-92-05	22 11 15 10 14 17 24 15 16 1 21 47 11 22 32 8 9 11 23 20 1 36 17 28 6 15 5 40 32 39 37 21 15 21 33 2 15 16 34 16 19 20 39 31 10 31 38 43 4 37 27 20 27 16 16 47																																																							
	30-D-93-02	22 11 15 10 14 17 22 35 2 7 11 33 4 15 11 8 18 4 30 7 14 18 33 22 21 27 22 4 37 23 26 11 26 37 14 33 17 12 30 18 6 13 2 33 52 13 5 47 34 30 26 27 35 4 36 27																																																							
30-D-93-02	22 11 15 10 14 17 24 15 16																																																								

Chr 19																																																							F_1					F_2					M1_1					M1_2					M2_1					M2_2				
window:		01234567891011121314151617181920212223242526272829303132333435363738394041424344454647484950515253																																																																																		
Female founder	D-85-01	13111516418641111111111184271819272322282735402711261784223831292015442724224515304743623																																																																																		
	D-85-01	1911411161632011315251811123023407401210641715244113172381781642051123115456616121832344327																																																																																		
First male	M1_1	11161923252211151013191717238391018189351733235351930722381814815259121115161948579283349572516																																																																																		
	M1_2	716109144183253517611817151920373617118222762124912418181122214310401739914234158351834434052839																																																																																		
F ₁ offspring (D-85-01 and M1)	D-84-03	11161923252211151013191717238391018189351733235351930722381814815259121115161948579283349572516																																																																																		
	D-84-03	1311151641864111111111111842718192723222827354027112617842238312920154427242244121832344327																																																																																		
	D-85-02	11161923252211151013191717238391018189351733235351930722381814815259121115161948579283349572516																																																																																		
	D-85-02	1311151641864131525181123023407401210641715244113172381781642051123115456616121832344327																																																																																		
	3-D-86-01	11161923252211151013191717238391018189351733235351930722381814815259121115161948579283349572739																																																																																		
	3-D-86-01	13111516418641111111111123407401210641715244113172381781642051123115456616121832344327																																																																																		
	G1-87																																																																																			
	G3-91																																																																																			
	G1-88																																																																																			
	G2-91																																																																																			
F ₂ offspring (G3-91 and G1-87)	4-D-89-01	111619232522111510131917172383910181893517332353519307223818161642051123115456616121832344327																																																																																		
	4-D-89-01	111619232522111510131917172383910181893517332353519307223818128310401739914234158351834434052839																																																																																		
	5-D-91-01	131115164186411111111111842718192723222827354027112617842238312920123115456616121832344327																																																																																		
	5-D-91-01	13111516418641111111111184271819272322282735402711278178164205112311546579283349572516																																																																																		
	G5-93																																																																																			
	G4-93																																																																																			
F ₂ offspring (G3-91 and G1-88)	16-D-89-03	11161923252211151013191717238391018189351733235351930722381814815259121115161948579283349572516																																																																																		
	16-D-89-03	131115164186411111111111842718192723222827354027112781781642051123115456616121832344327																																																																																		
	17-D-92-05	131115164186411111111111842718192723222827354027112617842238312920123115456616121832344327																																																																																		
	17-D-92-05	131115164186411111111111842718192723222827354027112781781642051123115456616121832344327																																																																																		
	30-D-93-02	11161923252211151013191717238391018189351733235351930722381814815259121115161948579283349572516																																																																																		
	30-D-93-02	131115164186411111111111842718192723222827354027112617842238312920123115456616121832344327																																																																																		
F ₃ offspring (G5-93 and G4-93)	6-M-98-02	131115164186411111111111842718192723222827354027112617842238312920123115456616121832344327																																																																																		
	6-M-98-02	1911411161632011315251811123023407401210641715244113172381781642051123115456616121832344327																																																																																		
	31-D-93-03	131115164186411111111111842718192723222827354027112617842238312920123115456616121832344327																																																																																		
	31-D-93-03	131115164186411111111111842718192723235351930722381814815259121115161948579283349572516																																																																																		
F ₃ offspring (G3-91 and G4-93)	19-D-94-01	1311151641864111111111118427181927232115244113172381781642051123115456616121832344327																																																																																		
	19-D-94-01	131115164186411111111111842718192723222827354027112781814815259121115161948579283349572516																																																																																		
	57-D-92-06	11161923252211151013191717238391018189351733235351930722381814815259121115161948579283349572516																																																																																		
	57-D-92-06	1911411161632011315251811123023407401210641715244113172381781642051123115456616121832344327																																																																																		
Second male	M2_1	1810112028101615101319171723835161311301726211622302972233291627123341710221734393842242247452321241141																																																																																		
	M2_2	91431614418325351761181715192035236232213153623391124172381781642051123115456616121832344327																																																																																		
	G2-91	1311151641864111111111118427181927232228273113172381781																																																																																		

Chr 20		F_1		F_2		M1_1		M1_2		M2_1		M2_2																																															
window:		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58																																																									
Female founder	D-85-01	2 7 11 14 13 2 16 9 8 25 12 3 3 9 1 28 14 1 1 1 1 1 11 10 21 2 28 35 47 36 31 24 17 34 25 28 35 22 19 21 17 19 33 25 27 21 2 4 5 7 10 26 36 22 5 37 6 15 0																																																									
	D-85-01	10 5 20 4 17 25 4 20 22 29 32 10 9 21 27 15 39 26 13 6 5 33 40 29 44 6 43 43 20 13 26 18 29 5 1 20 29 27 13 20 25 21 31 27 10 27 13 17 20 1 7 17 31 8 13 45 37 12 0																																																									
First male	M1_1	9 15 5 27 2 20 20 3 6 2 21 19 20 21 27 15 39 26 14 33 1 1 19 37 7 12 10 4 27 8 29 10 38 33 14 6 17 16 12 25 6 16 4 18 6 20 9 1 12 11 4 1 16 29 35 1 1 9 0																																																									
	M1_2	10 5 20 4 17 25 4 20 22 29 32 10 9 21 27 15 39 26 14 33 1 1 19 37 7 12 9 2 32 41 2 31 4 31 21 1 7 10 6 5 27 12 6 21 28 36 15 2 17 17 7 17 17 12 14 40 10 35 0																																																									
F ₁ offspring (D-85-01 and M1)	D-84-03	9 15 5 27 2 20 20 3 6 2 21 19 20 21 27 15 39 26 14 33 1 1 19 37 7 12 10 4 27 8 29 10 38 33 14 6 17 16 12 25 6 16 4 18 6 20 9 1 12 11 4 1 16 29 35 1 1 9 0																																																									
	D-84-03	10 5 20 4 17 25 4 20 22 29 32 10 9 21 27 15 39 25 1 1 1 1 11 10 21 2 28 35 47 36 31 24 17 34 25 28 35 22 19 21 17 19 33 25 27 21 2 4 5 7 10 26 36 22 5 37 6 15 0																																																									
	D-85-02	2 7 11 14 13 2 16 9 8 25 12 3 3 9 1 28 14 1 1 1 1 14 29 44 6 43 43 20 13 26 18 29 5 1 20 29 27 13 20 25 21 31 27 10 27 13 17 20 1 7 17 31 8 13 45 37 12 0																																																									
	D-85-02	10 5 20 4 17 25 4 20 22 29 32 10 9 21 27 15 39 26 14 33 1 1 19 37 7 12 9 2 32 41 2 31 4 31 21 1 7 10 6 5 27 12 6 21 28 36 15 2 17 17 7 17 17 12 14 40 10 35 0																																																									
	3-D-86-01	2 7 11 14 13 2 16 9 8 25 12 3 3 9 1 28 14 1 1 1 1 1 11 10 21 2 28 35 47 36 31 24 17 34 25 28 35 22 19 21 17 19 33 25 27 21 2 4 5 7 10 26 36 22 5 37 6 15 0																																																									
	3-D-86-01	9 15 5 27 2 20 20 3 6 2 21 19 20 21 27 15 39 26 14 33 1 1 19 37 7 12 10 4 27 8 29 10 38 33 14 6 17 16 12 25 6 16 4 18 6 20 9 1 12 11 4 1 16 29 35 1 1 9 0																																																									
	G1-87																																																										
	G3-91																																																										
	G1-88																																																										
	G2-91																																																										
F ₂ offspring (G3-91 and G1-87)	4-D-89-01	2 7 11 14 13 2 16 9 8 25 12 3 3 9 1 28 14 1 1 1 1 1 11 10 21 2 28 35 47 36 31 24 17 34 27 20 29 27 13 20 25 21 31 27 10 27 13 17 20 1 7 17 17 12 14 40 10 35 0																																																									
	4-D-89-01	10 5 20 4 17 23 20 3 6 2 21 19 20 21 27 15 39 26 14 33 1 1 19 37 7 12 10 4 27 8 29 10 38 33 14 6 17 16 12 26 17 19 33 25 27 21 2 4 5 7 10 26 36 22 5 37 6 15 0																																																									
	5-D-91-01	10 5 20 4 17 23 20 3 6 2 21 19 20 21 27 15 39 26 14 33 1 1 19 37 7 12 9 2 32 41 2 31 4 31 21 1 7 10 6 5 27 12 6 21 28 36 15 2 17 17 7 17 17 12 14 40 10 35 0																																																									
	5-D-91-01	2 7 11 14 13 2 16 9 8 25 12 3 3 9 1 28 14 1 1 1 1 1 11 10 21 2 28 35 47 36 31 24 17 34 25 28 35 22 19 21 17 19 33 25 27 21 2 4 5 7 10 26 36 22 5 37 6 15 0																																																									
	G5-93																																																										
	G4-93																																																										
F ₂ offspring (G3-91 and G1-88)	16-D-89-03	2 7 11 14 13 2 16 9 8 25 12 3 3 9 1 28 14 1 1 1 1 1 11 10 21 2 28 35 47 36 31 24 17 34 27 20 29 27 13 20 25 21 31 27 10 27 13 17 20 1 7 17 31 8 13 45 37 12 0																																																									
	16-D-89-03	10 5 20 4 17 25 4 20 22 29 32 10 9 21 27 15 39 26 14 33 1 1 19 37 7 12 9 2 33 36 31 24 17 34 25 28 35 22 19 21 17 19 33 25 27 21 2 4 5 7 10 26 36 22 5 37 6 15 0																																																									
	17-D-92-05	2 7 11 14 13 2 16 9 8 25 12 3 3 9 1 28 14 1 1 1 1 1 11 10 21 2 28 35 47 36 31 24 17 34 27 20 29 27 13 20 25 21 31 27 10 27 13 17 20 1 7 17 31 8 13 45 37 12 0																																																									
	17-D-92-05	10 5 20 4 17 25 4 20 22 29 32 10 9 21 27 15 39 26 13 1 1 1 11 10 21 2 28 35 47 36 31 24 17 34 25 28 35 22 19 21 17 19 33 25 27 21 2 4 5 7 10 26 36 22 5 37 6 15 0																																																									
F ₃ offspring (G5-93 and G4-93)	30-D-93-02	10 5 20 4 17 23 20 3 6 2 21 19 20 21 27 15 39 26 14 33 1 1 19 37 7 12 10 4 27 8 29 10 38 33 14 6 17 16 12 25 6 16 4 18 6 20 9 1 12 11 4 1 16 29 35 1 1 9 0																																																									
	30-D-93-02	10 5 20 4 17 25 4 20 22 29 32 10 9 21 27 15 39 26 14 33 1 1 19 37 7 12 10 4 27																																																									

[illegible]

[illegible]

		Chr 23			F_1	F_2	M1_1	M1_2	M2_1	M2_2																																																		
		window:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52					
Female founder	D-85-01		7	6	9	22	2	9	20	27	13	21	8	12	2	39	31	30	32	30	12	4	26	28	27	20	32	14	18	6	27	11	23	36	24	2	23	37	23	17	32	2	31	27	18	30	10	17	22	35	45	24	28	26	13					
	D-85-01		11	17	27	15	8	1	4	7	35	1	6	27	26	11	12	1	26	2	24	12	6	9	1	6	27	4	15	1	12	26	2	19	1	20	6	6	10	22	31	16	10	19	1	6	32	2	4	5	25	23	44	2	6					
First male	M1_1		3	10	10	13	23	11	7	9	11	5	17	29	14	21	21	8	17	25	26	8	4	26	9	27	3	14	14	18	10	19	19	28	20	19	29	31	35	32	2	12	8	23	4	8	18	25	41	17	26	5	27	14	4					
	M1_2		1	1	5	18	1	3	27	4	3	13	20	33	8	17	16	24	9	11	1	22	22	4	11	23	7	8	19	20	24	25	5	22	6	24	14	34	37	3	6	37	28	9	16	14	23	48	37	49	40	50	52	44	4					
F ₁ offspring (D-85-Q1 and M1)	D-84-03		3	10	10	13	23	11	7	9	11	5	17	29	14	21	21	8	17	25	26	8	4	26	9	27	3	14	14	18	10	19	19	28	20	19	29	31	35	32	2	12	8	23	4	8	18	25	41	17	26	5	27	44	4					
	D-84-03		7	6	9	22	2	9	20	27	13	21	8	12	2	39	31	30	32	30	12	4	26	28	27	20	32	14	18	6	27	11	23	36	24	2	23	37	23	17	32	2	31	27	18	30	10	17	22	35	45	24	28	26	13					
	D-85-02		1	1	5	18	1	3	27	4	3	13	20	33	8	17	16	24	9	11	1	22	22	4	11	23	7	8	19	20	24	25	5	22	6	24	14	34	37	3	6	37	28	9	16	14	23	48	37	49	40	50	52	44	4					
	D-85-02		11	17	27	15	8	1	4	7	35	1	6	28	2	39	31	30	32	30	12	4	26	28	27	20	32	14	18	6	27	11	23	36	24	2	23	37	23	17	32	2	31	27	18	30	10	17	22	35	45	24	28	26						
	3-D-86-01		1	1	5	18	1	3	27	4	3	13	20	33	8	17	16	24	9	11	1	22	22	4	11	23	7	8	19	20	24	25	5	22	6	24	14	34	37	3	6	37	28	9	16	14	23	48	37	49	40	50	52	44	4					
	3-D-86-01		7	6	9	22	2	9	20	27	13	21	8	12	2	39	31	30	32	30	12	4	26	28	27	20	32	14	18	6	27	11	23	36																										

[illegible]

Chr 25

F_1

F_2

M1_1

M1_2

M2_1

M2_2

Female founder

D-85-01

D-85-01

First male

M1_1

M1_2

F1 offspring (D-85-01 and M1)

D-84-03

D-84-03

D-85-02

D-85-02

3-D-86-01

3-D-86-01

G1-87

G3-91

G1-88

G2-91

F2 offspring (G3-91 and G1-87)

4-D-89-01

4-D-89-01

5-D-91-01

5-D-91-01

G5-93

G4-93

F2 offspring (G3-91 and G1-88)

16-D-89-03

16-D-89-03

17-D-92-05

17-D-92-05

30-D-93-02

30-D-93-02

F3 offspring (G5-93 and G4-93)

6-M-98-02

6-M-98-02

31-D-93-03

31-D-93-03

F3 offspring (G3-91 and G4-93)

19-D-94-01

19-D-94-01

57-D-92-06

57-D-92-06

Second male

M2_1

M2_2

G2-91

G2-91

F1 offspring (G2-91 and M2)

94-D-92-01

94-D-92-01

59-D-96-01

59-D-96-01

43-D-92-02

43-D-92-02

D-93-01

D-93-01

8492

8492

22-D-99-02

22-D-99-02

11-M-98-03

11-M-98-03

Chr 26																																							F_1			F_2			M1_1			M1_2			M2_1			M2_2		
window:			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38															
Female founder	D-85-01		16	11	5	30	36	9	15	16	11	11	25	31	43	6	19	2	40	14	8	12	2	32	38	32	29	0	0	28	19	5	2	66	25	53	19	1	19	34	31															
	D-85-01		20	4	23	6	32	3	4	13	5	15	1	18	17	13	10	2	40	14	8	12	2	32	38	32	29	0	0	28	19	10	14	43	11	34	8	49	38	37	24															
First male	M1_1		2	11	3	25	3	35	36	8	26	1	38	9	22	18	29	18	5	16	47	8	16	5	4	1	1	0	0	1	21	3	17	8	5	2	22	20	66	45	2															
	M1_2		2	11	3	25	3	35	36	8	26	1	39	24	1	39	40	34	35	29	37	30	33	4	44	37	37	0	0	50	55	49	38	20	39	20	47	28	10	26	9															
F1 offspring (D-85-01 and M1)	D-84-03		2	11	3	25	3	35	36	8	26	1	38	9	22	18	29	18	5	16	47	8	16	5	4	1	1	0	0	1	21	3	17	8	5	2	22	20	66	45	2															
	D-84-03		20	4	23	6	32	3	4	13	5	15	1	18	17	13	10	2	40	14	8	12	2	32	38	32	29	0	0	28	19	5	2	66	25	53	19	1	19	34	31															
	D-85-02		2	11	3	25	3	35	36	8	26	1	39	24	1	39	40	34	35	29	37	30	33	4	44	37	37	0	0	50	55	49	38	20	39	20	47	28	10	26	9															
	D-85-02		16	11	5	30	36	9	15	16	11	11	25	31	43	6	19	2	40	14	8	12	2	32	38	32	29	0	0	28	19	10	14	43	11	34	8	49	38	37	24															
	3-D-86-01		2	11	3	25	3	35	36	8	26	1	39	24	1	39	40	34	35	29	37	30	33	4	44	37	37	0	0	50	55	49	38	20	39	20	47	28	10	26	9															
	3-D-86-01		16	11	5	30	36	9	15	16	11	11	25	31	43	6	19	2	40	14	8	12	2	32	38	32	29	0	0	28	19	5	2	66	25	53	19	1	19	34	31															
	G1-87																																																							
	G3-91																																																							
	G1-88																																																							
	G2-91																																																							
F2 offspring (G3-91 and G1-87)	4-D-89-01		2	11	3	25	3	35	36	8	26	1	39	24	1	39	40	34	35	29	37	30	33	5	4	1	1	0	0	1	21	3	17	8	5	2	22	20	66	45	2															
	4-D-89-01		20	4	23	6	32	3	4	13	5	15	1	18	17	13	10	2	40	14	8	12	2	32	38	32	29	0	0	28	19	5	2	66	25	53	19	1	19	37	24															
	5-D-91-01		2	11	3	25	3	35	36	8	26	1	38	9	22	18	29	18	5	16	47	8	16	5	4	1	1	0	0	1	21	3	17	8	5	2	22	20	66	45	2															
	5-D-91-01		2	11	3	25	3	35	36	8	26	1	39	24	1	39	40	34	35	29	37	30	33	5	4	1	1	0	0	1	21	3	17	8	5	2	22	20	66	45	2															
	G5-93																																																							
	G4-93																																																							
F2 offspring (G3-91 and G1-88)	16-D-89-03		2	11	3	25	3	35	36	8	26	1	38	9	22	18	29	18	5	16	47	8	16	5	4	1	1	0	0	1	21	3	17	8	5	2	22	20	66	45	2															
	16-D-89-03		2	11	3	25	3	35	36	8	26	1	39	24	1	39	40	34	35	29	37	30	33	5	4	1	1	0	0	1	21	3	17	8	5	2	22	20	66	45	2															
	17-D-92-05		2	11	3	25	3	35	36	8	26	1	38	9	22	18	29	18	5	16	47	8	16	5	4	1	1	0	0	1	21	3	17	8	5	2	22	20	66	45	2															
	17-D-92-05		20	4	23	6	32	3	4	13	5	15	1	18	17	13	10	2	40	14	8	12	2	32	38	32	27	0	0	50	55	49	38	20	39	20	47	28	66	45	2															
	30-D-93-02		2	11	3	25	3	35	36	8	26	1	39	24	1	39	40	34	35	29	37	30	33	4	44	37	37	0	0	50	55	48	2	66	25	53	19	1	19	34	31															
	30-D-93-02		2	11	3	25	3	35	36	8	26	1	39	24	1	39	40	34	35	29	37	30	33	5	4	1	1	0	0	1	21	3	17	8	5	2	22	20	66	45	4															
F3 offspring (G5-93 and G4-93)	6-M-98-02		2	11	3	25	3	35	36	8	25	15	1	17	43	6	19	2	40	14	8	12	2	32	38	32	29	0	0	28	19	10	14	43	11	34	8	49	38	37	24															
	6-M-98-02		20	4	23	6	32	3	4	13	5	15	1	18	17	13	10	2	40	14	8	12	2	32	38	32	27	0	0	50	55	49	38	20	39	20	47	28	66	45	2															
	31-D-93-03		2	11	3	25	3	35	36	8	25	15	1	17	43	6	19	2	40	14	8	12	2	32	38	32	29	0	0	28	19	5	2	66	25	53	19	1	19	37	24															
	31-D-93-03		2	11	3	25	3	35	36	8	26	1	38	9	20	13	10	2	40	14	8	12	2	32	38	32	29	0	0	28	19	10	14	43	11	34	8	46	66	45	2															
F3 offspring (G3-91 and G4-93)	19-D-94-01		2	11	3	25	3	35	36	8	26	1	38	9	22	18	29	18	5	16	47	8	16	5	4	1	1	0	0	1	21	3	17	8	2	53	19	1	19	37	24															
	19-D-94-01		20	4	23	6	32	3	4	13	5	15	1	18	17	13	10	2	40	14	8	12	2	32	38	32	27	0	0	50	55	49	38	20	39	20	47	28	66	45	4															
	57-D-92-06		2	11	3	25	3	35	36	8	25	15	1	17	43	6	19	2	40	14	8	12	2	32	38	32	29	0	0	28	19	5	2	66	25	53	19	1	19	37	24															
	57-D-92-06		2	11	3	25	3	35	36	8	26	1	38	9	22	18	29	18	5	16	47	8	16	5	4	1	1	0	0	4	19	10	14	43	11	34	8	49	38	37	24															
Second male	M2_1		2	2	20	2	15	18	2	13	7	22	27	44	11	23	15	6	30	24	13	10	16	19	30	22	23	0	0	10	14	7	30	81	8	2	22	20	65	18	54															
	M2_2		2	2	20	2	15	18	2	13	7	22	29	7	6	36	41	36	27	38	47	8	16	19	30	23	17	0	0	39	53	28	2	63	8	2	22	20	61	9	14															
	G2-91		16	11	5	30	36	9	15	16	11	11	25	31	43	6	19	2	40	14	8	12	2	32	38	32	29	0	0	28	19	10	14	43	11	34	8	49	38	37	24															
	G2-91		2	11	3	25	3	35	36	8	26	1	39	24	1	39	40	34	35	29	37	30	33	4	44	37	37	0	0	50	55	49	38	20	39	20	22	20	66	45	2															
F1 offspring (G2-91 and M2)	94-D-92-01		2	2	20	2	15	18	2	13	7	22	27	44	11	23	15	6	30	24	13	10	16	19	30	22	23	0	0	10	14	7	30	81	8	2	22	20	65	18	54															
	94-D-92-01		2	11	3	25	3	35	36	8	26	1	39	24	1	39	40	34	35	29	37	30	33	4	44	37	37	0	0	50	55	49	38	20	39	20	22	20	66	45	2															
	59-D-96-01		2	2	20	2	15	18	2	13	7	22	29	7	6	36	41	36	27	38	47	8	16	19	30	23	17	0	0	39	53	30	30	81																						

		Chr 27			F_1	F_2	M1_1	M1_2	M2_1	M2_2																																							
		window:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
Female founder	D-85-01		44	25	55	20	26	1	23	38	35	40	4	15	9	9	8	35	6	32	43	44	8	6	15	6	37	35	34	4	34	18	23	17	3	15	38	2	1	19	17	11	2	22	27	2	12	17	
	D-85-01		66	3	26	1	36	3	26	33	2	26	3	7	44	24	37	9	52	20	30	33	15	16	32	6	37	35	34	4	34	18	23	17	3	15	38	2	1	18	23	26	18	1	5	7	17	20	
First male	M1_1		15	21	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	M1_2		45	33	8	39	30	39	3	11	20	17	13	28	30	5	5	20	31	34	2	10	3	1	2	5	2	3	11	2	16	8	4	35	36	30	14	32	25	6	10	7	26	34	19	5	3	2	
F1 offspring (D-85-01 and M1)	D-84-03		66	3	26	1	36	3	26	33	2	26	3	7	44	24	37	9	6	32	43	44	8	6	15	6	37	35	34	4	34	18	23	17	3	15	38	2	1	19	17	11	2	22	27	2	12	17	
	D-84-03		15	21	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	D-85-02		15	21	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	8	4	35	36	30	14	32	25	6	10	7	26	34	19	5	3	2	
	D-85-02		66	3	26	1	36	3	26	33	2	26	3	7	39	9	8	35	6	32	43	44	8	6	15	6	37	35	34	4	34	18	23	17	3	15	38	2	1	19	17	11	2	22	27	2	12	17	
	3-D-86-01		15	21	8	39	30	39	3	11	20	17	13	28	30	5	5	20	31	34	2	10	3	1	2	5	2	3	11	2	16	8	4	35	36	30	14	32	25	6	10	7	26	34	19	5	3	2	
	3-D-86-01		44	25	55	20	26	1	23	38	35	40	4	15	9	9	8	35	6	32	43	44	8	6	15	6	37	35	34	4	34	18	23	17	3	15	38	2	1	19	17	11	2	22	27	2	12	17	
	G1-87																																																
	G3-91																																																
	G1-88																																																
	G2-91																																																
F2 offspring (G3-91 and G1-87)	4-D-89-01		15	21	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	4-D-89-01		15	21	7	21	36	38	23	38	35	40	4	15	9	9	8	35	6	32	43	44	8	6	15	6	37	35	34	4	34	18	23	17	3	15	38	2	1	19	17	11	2	22	27	2	12	17	
	5-D-91-01		44	25	55	20	26	1	23	38	35	40	4	15	9	9	8	35	6	32	43	44	9	16	32	6	37	35	34	4	34	18	23	17	3	15	38	2	1	18	23	26	18	1	5	7	17	20	
	5-D-91-01		44	25	55	20	26	1	23	38	35	40	4	15	9	9	8	35	6	32	43	44	8	6	15	6	37	35	34	4	34	18	23	17	3	15	38	2	1	19	17	11	2	22	27	2	12	17	
	G5-93																																																
	G4-93																																																
F2 offspring (G3-91 and G1-88)	16-D-89-03		15	21	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	16-D-89-03		15	21	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	17-D-92-05		15	21	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	17-D-92-05		45	33	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	30-D-93-02		44	25	55	20	26	1	23	38	35	40	4	15	9	9	8	35	6	32	43	44	8	6	15	6	37	35	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	30-D-93-02		44	25	55	20	26	1	23	38	35	40	4	15	9	9	8	35	6	32	43	44	8	6	15	6	37	35	34	4	34	18	23	17	3	15	38	2	1	19	17	11	2	22	27	2	12	17	
F2 offspring (G5-93 and G4-93)	6-M-98-02		44	25	55	20	26	1	23	38	35	40	4	15	9	9	8	35	6	32	43	44	8	6	15	6	37	35	34	4	34	18	23	17	3	15	38	2	1	19	17	11	2	22	27	2	12	17	
	6-M-98-02		45	33	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	31-D-93-03		15	21	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	31-D-93-03		45	33	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	19-D-94-01		15	21	7	21	36	3	27	25	32	43	24	13	42	19	16	28	17	18	46	5	20	9	30	43	19	13	34	4	34	19	39	7	33	13	50	30	1	20	16	33	15	29	18	20	10	11	
	19-D-94-01		45	33	7	21	36	3	27	25	32	43	25	25	15	9	9	8	35	6	32	43	44	9	16	32	6	37	35	34	4	34	18	23	17	3	15	38	2	1	18	23	26	18	1	5	7	17	20
F2 offspring (G3-91 and G4-93)	57-D-92-06		15	21	7	21	36	3	27	25	32	43	24	13	42																																		

[illegible]

[illegible]

		Chr 30											F_1	F_2	M1_1	M1_2	M2_1	M2_2																									
		window:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Female founder	D-85-01		1	11	6	3	28	1	8	19	1	2	2	32	19	14	1	9	21	9	28	26	27	26	41	9	17	42	6	5	30	31	40	25	43	48	9	18	6	2	6	41	9
	D-85-01		20	4	19	11	36	22	1	13	15	6	6	5	20	2	33	9	23	22	34	20	15	6	15	25	36	9	39	25	37	11	44	14	49	59	30	32	6	5	21	16	13
First male	M1_1		3	10	7	14	13	3	12	5	9	9	14	28	20	2	33	9	21	9	28	26	27	27	30	2	37	39	22	37	38	21	7	15	14	42	1	32	6	2	10	2	1
	M1_2		13	4	19	11	35	16	4	5	9	8	20	25	13	15	2	15	8	16	1	13	1	18	19	36	26	35	19	23	4	36	14	12	29	26	23	32	6	2	7	33	8
F ₁ offspring (D-85-01 and M1)	D-84-03		1	11	6	3	28	1	8	19	1	2	2	32	19	14	1	9	21	9	28	26	27	26	41	9	17	42	6	5	30	31	40	14	49	59	30	32	6	5	21	16	13
	D-84-03		3	10	7	14	13	3	12	5	9	9	14	28	20	2	33	9	21	9	28	26	27	27	30	2	37	39	22	37	38	21	7	15	14	42	23	32	6	2	7	33	8
	D-85-02		1	11	6	3	28	1	8	19	1	2	2	32	19	14	1	9	21	9	28	26	27	26	41	9	17	42	6	5	30	31	40	25	43	48	30	32	6	5	21	16	13
	D-85-02		3	10	7	14	13	3	12	5	9	9	14	28	20	2	33	9	21	9	28	26	27	27	30	2	37	39	22	37	38	21	7	15	14	42	1	32	6	2	7	33	
	3-D-86-01		1	11	6	3	28	1	8	19	1	1	6	5	20	2	33	9	23	22	34	20	15	6	15	25	36	9	39	25	37	11	44	14	49	59	30	32	6	5	21	16	13
	3-D-86-01		3	10	7	14	13	3	12	5	9	9	14	28	20	2	33	9	21	9	28	26	27	27	30	2	37	39	22	37	38	21	7	15	14	42	1	32	6	2	7	33	8
	G1-87																																										
	G3-91																																										
	G1-88																																										
	G2-91																																										
F ₂ offspring (G3-91 and G1-87)	4-D-89-																																										

		Chr 31	F_1										F_2										M1_1										M1_2										M2_1										M2_2									
		window:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39																				
Female founder	D-85-01		19	19	28	3	2	17	11	15	38	9	24	35	2	19	36	11	39	15	12	32	6	17	52	37	41	27	7	5	1	11	17	13	27	20	32	10	41	42	49	30																				
	D-85-01		34	25	19	24	28	26	18	8	32	30	2	28	22	7	36	11	39	14	27	13	8	38	2	8	47	22	8	26	2	23	5	34	35	23	39	42	31	28	39	43																				
First male founder	M1_1		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	7	24	18	21	1	22	48	2	6	14	10	17	13	46	35	35																				
	M1_2		17	11	28	3	12	8	3	27	12	35	7	27	41	39	9	2	1	37	29	4	14	1	3	18	9	1	22	1	1	3	6	2	6	14	12	6	55	41	5	16																				
F1 offspring (D-85-01 and M1)	D-84-03		19	19	28	3	2	17	11	15	38	9	24	35	2	19	36	11	39	14	27	13	8	38	2	8	47	22	8	26	2	23	5	34	35	23	39	42	31	28	39	43																				
	D-84-03		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	7	24	18	21	1	22	48	2	6	14	10	17	13	46	35	35																				
	D-85-02		17	11	28	3	12	8	3	27	12	35	7	27	41	39	9	2	1	37	29	4	14	1	3	18	9	1	22	1	1	3	6	2	6	14	12	6	55	41	5	16																				
	D-85-02		34	25	19	24	28	26	18	8	32	30	2	26	2	19	36	11	39	15	12	32	6	17	52	37	41	27	7	5	1	11	17	13	27	20	32	10	41	42	49	30																				
	3-D-86-01		19	19	28	3	2	17	11	15	38	9	24	35	2	19	36	11	39	15	12	32	6	17	52	37	41	27	7	5	1	11	17	13	27	20	32	10	41	42	49	30																				
	3-D-86-01		17	11	28	3	12	8	3	27	12	35	7	27	41	39	9	2	1	37	29	4	14	1	3	18	7	24	18	21	1	22	48	2	6	14	10	17	13	46	35	35																				
	G1-87																																																													
	G3-91																																																													
	G1-88																																																													
	G2-91																																																													
F2 offspring (G3-91 and G1-87)	4-D-89-01		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	4	1	22	1	1	3	6	2	6	14	12	8	31	28	39	43																				
	4-D-89-01		17	3	13	1	19	22	11	18	17	37	13	28	22	7	36	11	39	14	27	13	8	38	2	8	47	22	8	26	2	23	5	34	35	23	39	42	31	28	39	43																				
	5-D-91-01		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	4	1	22	1	1	3	6	2	6	14	12	6	55	41	5	16																				
	5-D-91-01		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	6	22	8	26	2	23	5	34	35	23	39	42	31	28	39	43																				
	G5-93																																																													
	G4-93																																																													
F2 offspring (G3-91 and G1-88)	16-D-89-03		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	7	24	18	21	1	22	48	2	6	14	12	9	6	55	41	5	16																			
	16-D-89-03		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	4	1	22	1	1	3	6	2	6	14	12	6	55	41	5	16																				
	17-D-92-05		17	11	28	3	12	8	3	27	12	35	7	27	41	39	9	2	1	37	29	4	14	1	3	18	9	1	22	1	1	3	6	2	6	14	12	7	13	46	35	35																				
	17-D-92-05		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	31	2	8	47	22	8	26	2	23	5	34	35	23	39	42	31	28	39	43																	
	30-D-93-02		17	11	28	3	12	8	3	27	12	35	7	27	41	39	9	2	1	37	29	4	14	1	3	18	9	1	22	1	1	3	6	2	6	14	12	7	13	46	35	35																				
	30-D-93-02		34	25	19	24	28	26	18	8	32	30	2	28	22	7	36	11	39	14	27	13	8	38	2	8	47	22	8	26	2	23	5	34	35	23	21	6	55	41	5	16																				
F3 offspring (G5-93 and G4-93)	6-M-98-02		17	11	28	3	12	8	3	27	12	35	7	27	41	39	9	2	1	37	29	4	14	1	3	18	9	1	22	1	1	3	6	2	6	14	12	7	13	46	35	35																				
	6-M-98-02		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	4	1	22	1	1	3	6	2	6	14	12	6	55	41	5	16																				
	31-D-93-03		19	19	28	3	2	15	18	8	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	7	24	18	21	1	22	48	2	6	14	12	9	6	55	41	5	16																			
	31-D-93-03		17	11	28	3	12	8	3	27	12	35	7	27	41	39	9	2	1	37	29	4	13	29	5	4	4	1	22	1	1	3	6	2	6	14	12	6	55	41	5	16																				
F3 offspring (G3-91 and G4-93)	19-D-94-01		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	7	24	18	21	1	22	48	2	6	14	12	9	6	55	41	5	16																			
	19-D-94-01		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	4	1	22	1	1	3	6	2	6	14	12	6	55	41	5	16																				
	57-D-92-06		17	3	13	1	19	22	11	18	17	37	13	20	41	40	36	11	40	11	1	9	27	29	5	4	4	1	22	1	1	3	6	2	6	14	12	6	55	41	5	16																				
	57-D-92-06		19	19	28	3	2	15	18	8	32	30	2	28	22	7	36	11	39	14	27	13	8	38	2	8	47	22	8	26	2	23	4	2	6	14	12	9	6	55	41	5	16																			
Second male founder	M2_1		34	25	19	24	28	26	18	8	32	30	3	3	8	10	35	11	40	28	4	25	12	23	17	23	27	27	7	5	1	11	16	22	9	32	2	51	44	34	45	25																				
	M2_2		12	28	2	28	9	14	37	27	11	15	3	3	8	11	9	2	1	37	29	4	14	1	3	18	9	1	22	1	1	3	6	2	6	14	5	30	5	15	30	23																				
	G2-91		19	19	28	3	2	17	11	15	38	9	24	35	2	19	36	11	39	15	12	32	6	17	52	37	41	27	7	5	1	11	17	13	27	20	32	10	41	42	49	30																				

		Chr 32	F_1										F_2										M1_1										M1_2										M2_1										M2_2									
	window:		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38																					
Female founder	D-85-01		2	31	35	15	14	40	24	3	9	2	39	21	25	31	14	27	41	43	30	3	39	43	8	18	35	17	46	43	1	40	30	11	17	22	7	8	23	4	16																					
	D-85-01		4	11	13	25	28	12	31	31	33	20	7	34	12	27	27	4	15	7	1	1	29	8	2	2	1	26	7	23	8	7	4	7	44	35	4	29	2	8	8																					
First male founder	M1_1		13	7	7	21	33	17	13	30	25	34	32	6	35	15	15	36	25	47	24	16	44	51	53	34	13	24	38	20	41	29	9	23	23	18	1	21	14	6	11																					
	M1_2		20	19	31	7	6	26	23	23	26	39	43	45	9	27	28	8	36	32	35	21	37	54	48	19	6	19	37	20	41	29	9	23	23	18	1	21	14	6	11																					
F ₁ offspring (D-85-01 and M1)	D-84-03		4	11	13	25	28	12	31	31	33	20	7	34	12	27	27	4	15	7	1	1	29	8	2	2	1	26	7	23	8	7	4	7	44	35	4	29	2	8	8																					
	D-84-03		13	7	7	21	33	17	13	30	25	34	32	6	35	15	15	36	25	47	24	16	44	51	53	34	13	24	38	20	41	29	9	23	23	18	1	21	14	6	11																					
	D-85-02		4	11	13	25	28	12	31	31	33	20	7	34	12	27	27	4	15	7	1	1	29	8	2	2	1	26	7	23	10	40	30	11	17	22	7	8	23	4	16																					
	D-85-02		20	19	31	7	6	26	23	23	27	34	32	6	35	15	15	36	25	47	24	16	44	51	53	34	13	24	38	20	41	29	9	23	23	18	1	21	14	6	11																					
	3-D-86-01		2	31	35	15	14	12	31	31	33	20	7	34	12	27	27	4	15	7	1	1	29	8	2	2	1	26	7	23	8	7	4	7	44	35	4	29	2	8	8																					
	3-D-86-01		20	19	31	7	6	26	23	23	26	39	43	45	9	27	28	8	36	32	35	21	41	51	53	34	13	24	38	20	41	29	9	23	23	18	1	21	14	6	11																					
	G1-87																																																													
	G3-91																																																													
	G1-88																																																													
	G2-91																																																													
	F ₂ offspring (G3-91 and G1-87)	4-D-89-01		2	34	7	21	33	17	13	30	25	34	32	6	35	15	15	36	25	47	24	16	44	51	53	34	13	24	38	20	41	29	9	23	23	18	1	21	14	6	11																				
		4-D-89-01		20	19	31	7	6	26	23	23	26	39	43	45	9	27	28	8	36	32	35	21	37	54	48	19	6	19	37	20	41	29	9	23	23	18	1	21	14	6	11																				
5-D-91-01			2	31	35	15	14	40	24	3	9	3	7	34	12	27	27	4	15	7	1	1	29	8	2	2	1	26	7	23	8	7	4	7	44	35	4	29	2	8	8																					
5-D-91-01			2	31	35	15	14	42	31	31	33	20	7	34	12	27	27	4	15	7	1	1	29	8	2	2	1	26	7	23	8	7	4	7	44	35	4	29	2	8	8																					
G5-93																																																														
G4-93																																																														
F ₂ offspring (G3-91 and G1-88)	16-D-89-03		2	31	35	15	14	40	24	3	9	3	7	34	12	27	27	4	15	7	1	1	29	8	2	2	1	26	7	23	8	7	4	7	44	35	4	29	2	8	8																					
	16-D-89-03		2	31	35	15	14	42	31	31	33	20	31	45	9	27	28	8	36	32	35	21	37	54	48	19	6	19	37	20	41	29	9	23	23	18	1	21	14	6	11																					
	17-D-92-05		2	31	35	15	14	40	24	3	2	26	39	43	45	9	27	28	8	36	32	35	21	37	54	48	19	6	19	37	20	41	29	9	23	23	18	1	21	14	6	11																				
	17-D-92-05		2	31	35	15	14	42	31	31	33	20	7	34	12	27	27	4	15	7	1	1	29	8	2	2	1	26	7	23	8	7	4	7	44	35	3	21	14	6	11																					
	30-D-93-02		2	31	35	15	14	42	31	31	33	20	7	34	12	27	27	4	15	7	1	1	29	8	2	2	1	26	7	23	8	7	4	7	44	35	4	29	2	8	8																					
	30-D-93-02		13	7	7	21	33	17	13	30	25	34	32	5	25	31	14	27	41	43	30	3	39	43	8	18	35	17	46	43	1	40	30	11	17	22	7	8	23	4	16																					
F ₃ offspring (G5-93 and G4-93)	6-M-98-02		2	31	35	15	14	42	31	31	33	20	7	34	12	27	27	4	15	7	1	1	29	8	2	2	1	26	7	23	8	7	4	7	44	35	4	29	2	8	8																					
	6-M-98-02		13	7	7	21	33	17	13	30	25	34	32	6	35	15	15	36	25	47	24	16	44	51	53	34	13	24	38	20	41	29	9	23	23	18	1	21	14	6	11																					
	31-D-93-03		20	19	31	7	6	26	23	23	26	39	43	45	9	27	28	8	36	32	35	21	37	54	48	19	6	19	37	20	41	29	9	23	23	18	1	21	14	6	11																					
	31-D-93-03		13	7	7	21	33	17	13	30	25	34	32	6	35	15	15	36	25	47	24	16	44	51	53	34	13	24	38	20	41	29	9	23	23	18	1	21	14	6	11																					
F ₃ offspring (G3-91 and G4-93)	19-D-94-01		2	31	35	15	14	42	31	30	25	34	32	6	35	15	15	36	25	47	24	16	44	51	53	34	13	24	38	20	41	29	9	23	23	18	1	23	2	8	8																					
	19-D-94-01		20	19	31	7	6	26	23	23	26	39	43	45	9	27	28	8	36	32	35	21	37	54	48	19	6	19	37	20	41	29	9	23	23	18	1	21	14	6	11																					
	57-D-92-06		2	31	35	15	14	40	24	3	9	3	7	34	12	27	27	4	15	7	1	1	29	8	2	2	1	26	7	23	8	7	4	7	44	35	4	29	2	8	8																					
	57-D-92-06		13	7	7	21	33	17	13	30	25	34	32	6	35	15	15	36	25	47	24	16	44	51	53	34	13	24	38	20	43	7	4	7	44	35	4	29	2	8	8																					
Second male founder	M2_1		13	7	7	21	33	17	13	27	44	43	29	18	2	15	15	36	25	47	24	15	35	57	15	47	16	9	45	33	18	22	25	10	13	1	28	4	21	2	3																					
	M2_2		13	7	7	21	33	17	13	30	25	34	32	6	35	15	15	36	23	40	42	38	44	51	53	34	13	24	31	25	48	45	33	7	47	9	11	25	10	17	11																					
	G2-91		2	31	35	15	14	40	24	3	9	2	39	21	25	31	14	27	41	43	30	3	39	43	8	18	35	17	46	43	1	40	30	11	17	22	7	8	23	4	16																					
	G2-91		13	7	7	21	33	17	13	30	25	34	32	6	35	15	15	36	25	47	24	16	44	51	53	34	13	24	38	20	41	29	9	23	23	18	1	21	14	6	11																					
F ₁ offspring (G2-91 and M2)	94-D-92-01		13	7	7	21	33	17	13	27	44	43	29	18	2	15	15	36	25	47	24	15	35	57	15	47	16	9	45	33	18	22	25	10	13	1	11	25	10	17	11																					
	94-D-92-01		13	7	7	21	33	17	13	30	25	34	32	6	35	15	15	36	25	47	24	16	44	51	53	34	13	24	38	20	41	29	9	23	23	18	1	21	14	6	11																					
	59-D-96-01		2	31	35	15	14	40	24	3	9	2	39	21	25	31	14	27	41	43	30	3	39	51	53	34	13	24	38	20	41	29	9	23	23	18	1	21	14	6	11																					
	59-D-96-01		13	7	7	21	33	17	13	27	44	43	29	18	2	15	15	36	25	47	24	15	35	57	15	47	16	9	45	33	18	22	25	10	13	1	28	4	21	2	3																					
	43-D-92-02		13	7	7	21	33	17	13	30	25	34	32	6	34	31	14	27	41	43	30	3	39	43	8	18	35	17	46	43	1	40	30	11	17	22	7	8	23	4	16																					
	43-D-92-02		13	7	7	21	33	17	13	27	44	43	29	18	2	15	15	36	23	40	42	38	44	51	53	34	13	24	31	25	48	45	33	7	47	9	11	25	10	17	11																					

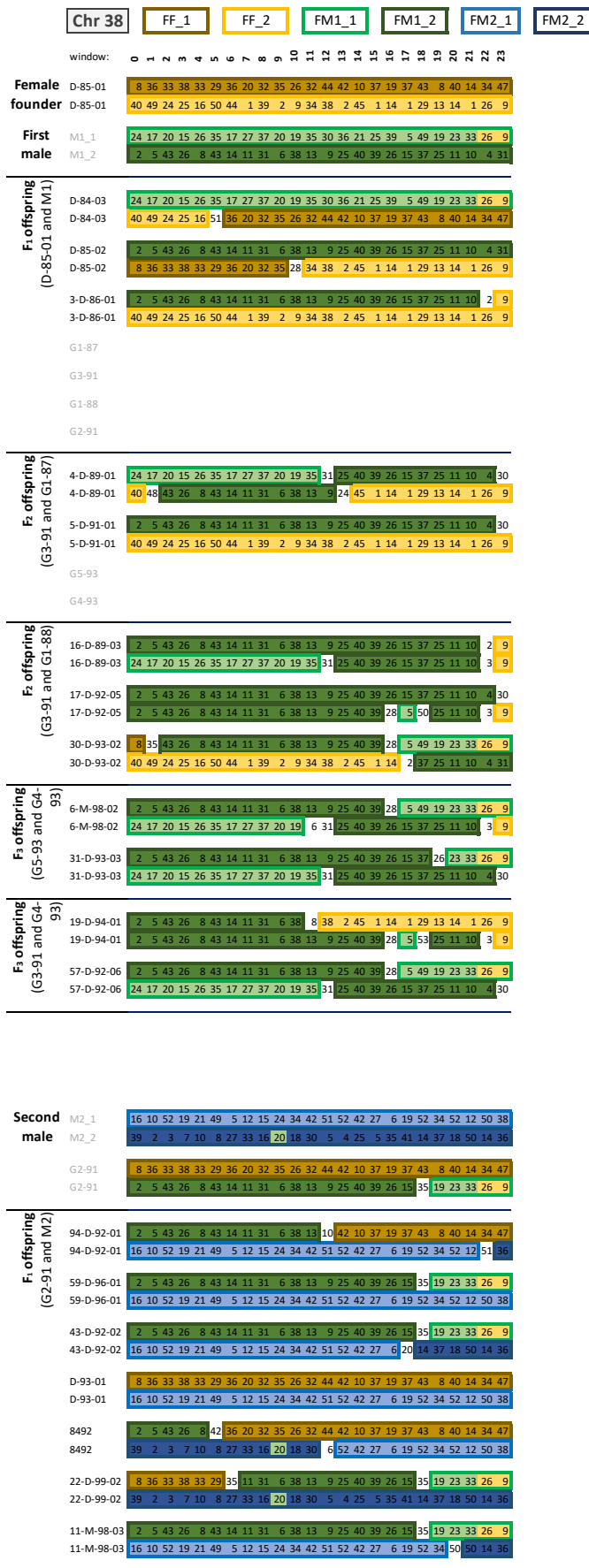
	Chr 33	F_1	F_2	M1_1	M1_2	M2_1	M2_2																											
Female founder	D-85-01	5	8	7	14	1	22	6	19	29	19	42	41	14	23	33	26	17	10	36	12	36	39	18	36	5	15	13	52	7	5	28	10	
First male	M1_1	5	8	7	14	1	22	6	21	8	49	2	1	22	1	26	1	40	4	1	19	14	17	4	1	1	1	1	42	11	50	28	6	7
	M1_2	5	8	7	14	1	22	6	21	8	49	2	1	22	1	26	1	40	4	1	19	14	17	4	1	1	1	1	44	42	22	19	6	7
F1 offspring (D-85-01 and M1)	D-84-03	5	8	7	14	1	22	6	19	29	19	42	41	14	23	33	26	17	10	36	12	36	39	18	36	5	15	13	52	7	5	28	10	
	D-84-03	5	8	7	14	1	22	6	21	8	49	2	1	22	1	26	1	40	4	1	19	14	17	4	1	1	1	42	13	22	28	6	7	
	D-85-02	5	8	7	14	1	22	6	21	8	49	2	1	22	1	26	1	40	4	1	19	14	17	4	1	1	1	1	42	11	50	28	6	7
	D-85-02	5	8	7	14	1	19	14	38	24	2	14	26	46	12	37	37	44	31	6	46	41	22	38	31	15	41	47	18	51	38	35	32	
	3-D-86-01	5	8	7	14	1	22	6	19	29	19	42	41	14	23	33	26	19	31	6	46	41	22	38	31	15	41	47	18	51	38	35	32	
	3-D-86-01	5	8	7	14	1	22	6	21	8	49	2	1	22	1	26	1	40	4	1	19	14	17	4	1	1	1	1	44	42	22	19	6	7
	G1-87																																	
	G3-91																																	
	G1-88																																	
	G2-91																																	
F2 offspring (G3-91 and G1-87)	4-D-89-01	5	8	7	14	1	22	6	19	29	19	42	41	14	23	33	26	17	10	36	12	36	39	18	36	5	15	13	52	16	28	6	7	
	4-D-89-01	17	2	13	20	8	19	14	37	8	49	2	1	22	1	26	1	40	4	1	19	14	17	4	1	1	1	1	42	11	50	28	6	7
	5-D-91-01	5	8	7	14	1	22	6	21	8	49	2	1	22	1	26	1	40	4	1	19	14	17	4	1	1	1	1	42	11	50	28	6	7
	5-D-91-01	17	2	13	20	8	19	14	38	24	2	14	26	46	12	37	38	17	10	36	12	36	39	18	36	5	15	13	52	7	5	28	10	
	G5-93																																	
	G4-93																																	
F2 offspring (G3-91 and G1-88)	16-D-89-03	5	8	7	14	1																												

[illegible]

	Chr 35	F_1	F_2	M1_1	M1_2	M2_1	M2_2																							
window:		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
Female founder	D-85-01		19	23	19	11	14	20	23	28	11	31	45	34	30	26	22	41	12	18	29	7	45	46	25	18	11	31	21	
	D-85-01		23	13	26	26	34	37	32	40	37	41	43	12	17	15	11	17	6	6	53	1	19	14	27	38	23	10	13	
First male	M1_1		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	40	34	27	53	12	30	34	57	64	6	
	M1_2		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	39	32	37	33	20	39	37	16	10	24	
F1 offspring (D-85-01 and M1)	D-84-03		19	23	19	11	14	20	23	28	11	31	45	34	30	25	11	17	6	6	53	1	19	14	27	38	23	10	13	
	D-84-03		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	40	34	27	53	12	30	34	57	64	6	
	D-85-02		19	23	18	26	34	37	32	40	37	41	43	12	17	15	11	17	6	6	53	1	19	14	27	38	23	10	13	
	D-85-02		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	39	32	37	33	20	39	37	8	64	6	
	3-D-86-01		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	39	32	37	33	20	39	37	16	10	24	
	3-D-86-01		23	13	26	26	34	37	32	40	37	41	43	12	17	15	11	17	6	6	53	1	19	14	27	38	23	11	31	21
	G1-87																													
	G3-91																													
	G1-88																													
	G2-91																													
F2 offspring (G3-91 and G1-87)	4-D-89-01		19	23	19	11	14	20	23	28	11	31	45	34	30	14	41	26	30	39	32	37	33	22	30	34	57	64	6	
	4-D-89-01		19	23	19	11	14	20	23	28	11	31	45	34	30	26	22	41	12	18	29	7	41	12	30	34	57	64	6	
	5-D-91-01		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	39	32	37	33	22	30	34	57	64	6	
	5-D-91-01		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	40	36	7	45	46	25	18	11	31	21	
	G5-93																													
	G4-93																													
F2 offspring (G3-91 and G1-88)	16-D-89-03		19	23	19	11	14	20	23	28	11	31	45	34	30	26	22	41	12	18	29	7	45	46	25	18	11	31	21	
	16-D-89-03		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	39	32	37	33	22	30	34	57	64	6	
	17-D-92-05		19	23	19	11	14	20	23	28	11	31	45	34	30	26	22	41	12	18	29	7	45	46	25	37	16	10	24	
	17-D-92-05		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	39	32	37	33	22	30	34	57	64	6	
	30-D-93-02		19	23	19	11	14	21	28	48	28	21	43	12	17	15	11	17	6	6	53	1	19	14	27	38	23	10	13	
	30-D-93-02		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	40	34	27	53	12	30	34	57	64	6	
F3 offspring (G5-93 and G4-93)	6-M-98-02		19	23	19	11	14	20	23	28	11	31	45	34	30	26	22	41	12	18	29	7	45	46	25	18	11	31	21	
	6-M-98-02		23	13	26	26	34	37	32	40	37	41	43	12	17	15	11	17	7	39	32	37	33	20	39	37	16	10	24	
	31-D-93-03		19	23	19	11	14	20	23	28	11	31	45	34	31	14	41	26	30	39	32	37	33	22	30	34	57	64	6	
	31-D-93-03		19	23	19	11	14	20	23	28	28	20	49	28	19	15	11	17	7	39	32	37	33	20	39	37	16	10	24	
F3 offspring (G3-91 and G4-93)	19-D-94-01		19	23	19	11	14	20	23	28	11	31	45	34	30	26	22	41	12	18	29	7	45	46	25	18	11	31	21	
	19-D-94-01		19	23	19	11	14	21	28	48	28	20	45	34	30	26	22	41	12	18	29	7	46	20	39	37	16	10	24	
	57-D-92-06		19	23	19	11	14	20	23	28	11	31	45	34	30	26	22	41	12	18	29	7	45	46	25	18	11	31	21	
	57-D-92-06		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	39	32	37	33	22	30	34	57	64	6	
Second male	M2_1		6	38	40	5	3	7	36	19	2	46	3	29	30	47	15	8	44	7	4	29	2	26	42	3	5	4	35	
	M2_2		22	27	20	8	8	2	8	5	11	30	14	29	29	1	37	49	26	29	19	18	58	21	4	36	27	5	9	
	G2-91		23	13	26	26	34	37	32	40	37	41	43	12	17	16	22	41	12	18	29	7	45	46	25	18	11	31	21	
	G2-91		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	40	34	27	53	12	30	34	57	64	6	
F1 offspring (G2-91 and M2)	94-D-92-01		6	38	40	5	3	7	36	19	2	46	3	29	30	47	15	8	44	7	4	29	2	26	42	3	5	5	9	
	94-D-92-01		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	40	34	24	45	46	25	18	11	31	21	
	59-D-96-01		6	38	40	5	3	7	36	19	2	46	3	29	30	47	15	8	44	7	4	29	2	26	42	3	5	4	35	
	59-D-96-01		23	13	26	26	34	37	32	40	37	41	43	12	17	16	22	41	12	18	29	7	45	46	25	18	11	31	21	
	43-D-92-02		6	38	40	5	3	7	36	19	2	46	3	29	30	47	15	8	44	7	4	29	2	26	42	3	5	4	35	
	43-D-92-02		23	13	27	11	14	21	28	48	28	20	49	28	19	14	41	26	30	40	34	27	53	12	30	34	57	64	6	
	D-93-01		6	38	40	5	3	7	36	19	2	46	3	29	30	47	15	8	44	7	4	29	2	26	42	3	27	4	35	
	D-93-01		19	23	19	11	14	21	28	48	28	20	49	28	19	14	42	41	12	18	29	7	45	46	25	18	11	31	21	
	8492		22	27	20	8	8	2	8	5	11	30	14	29	29	1	37	49	26	29	19	18	58	21	4	36	26	4	35	
	8492		23	13	26	26	34	37	32	40	37	41	43	12	17	16	22	41	X	40	34	27	53	12	30	34	57	64	6	
F1 offspring (G2-91 and M2)	22-D-99-02		19	23	19	11	14	21	28	50	37	41	43	12	17	16	22	41	12	18	29	7	45	46	25	18	11	31	21	
	22-D-99-02		22	27	20	8	8	2	8	5	11	30	14	29	29	1	37	49	26	29	19	18	58	21	4	36	27	5	9	
	11-M-98-03		6	38	40	5	3	7	36	19	2	46	3	29	30	47	15	8	44	7	4	29	2	26	42	3	5	4	35	
	11-M-98-03		19	23	19	11	14	21	28	48	28	20	49	28	19	14	41	26	30	40	34	27	53	12	30	34	57	64	6	

		Chr 36	F_1				F_2				M1_1				M1_2				M2_1				M2_2												
	window:		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
Female founder	D-85-01		2	26	4	28	5	6	51	42	33	19	45	43	26	38	2	9	10	15	27	27	31	18	41	38	24	3	39	10	55	43	11		
	D-85-01		19	11	31	10	3	29	23	36	4	18	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	14	15	32	27	62	48		
First male	M1_1		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	22	28	32	45	30	25	2	37	46		
	M1_2		6	23	9	10	3	29	22	2	23	37	41	33	35	2	28	24	4	7	40	52	49	8	22	28	32	45	30	25	2	58	24		
F ₁ offspring (D-85-01 and M1)	D-84-03		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	22	28	32	45	30	25	2	37	46		
	D-84-03		19	11	31	10	3	29	23	36	4	18	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	14	15	32	27	62	48		
	D-85-02		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	22	28	32	45	30	25	2	37	46		
	D-85-02		19	11	31	10	3	29	23	36	4	18	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	14	15	32	27	62	48		
	3-D-86-01		6	23	9	10	3	29	22	2	23	37	41	33	35	2	28	24	4	7	40	52	49	8	22	28	32	45	30	25	2	37	46		
	3-D-86-01		19	11	31	10	3	29	23	36	4	18	15	8	34	2	31	31	10	15	27	27	31	18	41	38	24	3	39	10	55	43	11		
	G1-87																																		
	G3-91																																		
	G1-88																																		
	G2-91																																		
F ₂ offspring (G3-91 and G1-87)	4-D-89-01		2	26	4	28	5	6	51	42	33	19	45	43	26	38	2	9	10	15	27	27	31	18	41	38	24	3	39	10	55	43	11		
	4-D-89-01		6	23	15	6	9	12	4	26	6	18	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	14	15	32	27	62	48		
	5-D-91-01		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	22	28	32	45	30	25	2	37	46		
	5-D-91-01		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	23	38	24	3	39	10	55	43	11		
	G5-93																																		
	G4-93																																		
F ₃ offspring (G3-91 and G1-88)	16-D-89-03		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	22	28	32	45	28	32	27	62	48		
	16-D-89-03		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	22	28	32	45	30	25	2	32	11		
	17-D-92-05		2	26	4	28	5	6	51	42	33	19	45	43	26	38	2	9	10	15	27	27	31	18	41	38	24	3	39	10	55	43	11		
	17-D-92-05		19	11	31	10	3	29	23	36	4	18	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	14	15	32	27	62	48		
	30-D-93-02		2	26	4	28	5	6	51	42	33	19	45	43	26	38	2	9	10	15	27	27	31	18	41	38	24	3	39	10	55	43	11		
	30-D-93-02		6	23	15	7	5	6	51	42	33	19	45	43	26	38	2	9	10	15	27	27	31	18	41	38	24	3	39	10	55	43	11		
F ₃ offspring (G5-93 and G4-93)	6-M-98-02		2	26	4	28	5	6	51	42	33	19	45	43	26	38	2	9	10	15	27	27	31	18	41	38	24	3	39	10	55	43	11		
	6-M-98-02		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	22	28	32	45	30	25	2	37	50		
	31-D-93-03		2	26	4	28	5	6	51	42	33	19	45	43	26	38	2	9	10	15	27	27	31	18	41	38	24	3	39	10	55	43	11		
	31-D-93-03		19	11	31	10	3	29	23	36	4	18	15	8	34	2	32	28	23	4	7	40	52	49	8	22	28	32	45	30	25	2	37	46	
F ₃ offspring (G3-91 and G4-93)	19-D-94-01		2	26	4	28	5	6	51	42	33	19	45	43	26	38	2	9	10	15	27	27	31	18	41	38	24	3	39	10	55	43	11		
	19-D-94-01		6	23	15	8	3	29	23	36	4	18	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	14	15	32	27	62	48		
	57-D-92-06		19	11	31	10	3	29	23	36	4	19	45	43	26	38	2	9	10	15	27	27	31	18	41	38	24	3	39	10	55	43	11		
	57-D-92-06		6	23	15	6	9	12	4	26	6	1	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	14	15	33	2	37	46		
Second male	M2_1		6	23	15	6	9	12	4	26	6	4	45	43	33	17	8	7	11	3	2	6	51	21	25	47	44	15	45	18	27	67	25		
	M2_2		6	23	19	25	20	9	47	36	4	18	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	14	15	32	27	58	25		
	G2-91		19	11	31	10	3	29	23	36	4	18	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	14	15	32	27	62	48		
	G2-91		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	22	28	32	45	30	25	2	58	24		
F ₁ offspring (G2-91 and M2)	94-D-92-01		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	22	28	32	45	30	25	2	58	24		
	94-D-92-01		6	23	15	6	9	12	4	26	6	4	45	43	33	17	8	7	11	3	2	6	51	21	25	47	44	15	45	18	27	67	25		
	59-D-96-01		6	23	19	25	20	9	47	36	4	18	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	15	45	18	27	67	25		
	59-D-96-01		19	11	31	10	3	29	23	36	4	18	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	14	15	32	27	58	24		
	43-D-92-02		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	51	25	26	13	4	28	14	15	32	27	62	48		
	43-D-92-02		6	23	19	25	20	9	47	36	4	18	15	8	34	2	31	32	14	23	22	40	25	26	13	6	44	15	45	18	27	67	25		
	D-93-01		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	22	24	28	14	15	32	27	62	48		
	D-93-01		6	23	15	6	9	12	4	26	6	4	45	43	33	17	8	7	11	3	2	6	51	21	25	47	44	15	45	18	27	67	25		
	8492		6	23	15	6	9	12	4	26	6	1	11	5	9	32	28	23	4	7	40	52	49	8	22	28	32	45	30	25	2	58	24		
	8492		6	23	15	6	9	12	4	26	6	4	45	43	33	17	8	7	11	3	2	6	51	21	25	47	44	15	45	18	27	67	25		
22-D-99-02		6	23	15	6	3	29	23	36	4	18	15	8	34	2	31	32	14	23	22	40	25	26	13	4	28	14	15	32	27	62	48			
22-D-99-02		6	23	19	25	20	9	47	26	6	4	45	43	33	17	8	7	11	3	2	6	51	21	25	47	44	15	45	18	27	67	25			
11-M-98-03		6	23	15	6	9	12	4	26	6	4	45	43	33	17	8	7	11	3	2	6	50	26	13	4	28	14	15	32	27	58	25			
11-M-98-03		19	11	31	10	3	29	23	36	4	18	15	8	34	2	31	32	14	23	21	52	49	8	22	28	32	45	30	25	2	58	24			

	Chr 37	F_1	F_2	M1_1	M1_2	M2_1	M2_2																									
Female founder	D-85-01	1	5	3	1	2	9	16	31	20	18	4	20	21	26	2	23	12	38	22	7	2	26	46	2	15	13	22	25	30	49	31
First male	M1_1	1	20	22	27	13	4	1	40	1	14	26	6	8	26	2	23	12	38	24	41	19	25	25	50	54	33	18	16	10	2	1
	M1_2	3	12	6	2	4	1	24	34	23	18	4	20	21	27	29	25	20	31	20	36	38	37	37	53	46	34	46	46	41	29	3
F ₁ offspring (D-85-01 and M1)	D-84-03	1	5	3	1	2	9	16	31	20	18	4	20	21	26	2	23	12	38	22	7	2	26	45	16	6	19	26	1	16	10	17
	D-84-03	1	20	22	27	13	4	1	40	1	14	26	6	8	26	2	23	12	38	24	41	19	25	25	50	54	33	18	16	10	2	1
	D-85-02	1	5	3	1	2	9	16	31	20	18	4	20	21	26	2	23	12	38	22	7	2	26	46	2	15	13	22	25	30	49	31
	D-85-02	3	12	6	2	4	1	24	34	23	18	4	20	21	27	29	25	20	31	20	36	38	37	37	53	46	34	46	46	41	29	3
	3-D-86-01	1	5	3	1	2	9	16	31	20	18	5	8	13	18	24	34	36	26	9	15	25	22	26	16	6	19	26	1	16	10	17
	3-D-86-01	1	20	22	27	13	4	1	40	1	14	26	6	8	26	2	23	12	38	24	41	19	25	25	50	54	33	18	16	10	2	1
	G1-87																															
	G3-91																															
	G1-88																															
	G2-91																															
F ₂ offspring (G3-91 and G1-87)	4-D-89-01	1	5	3	1	2	9	16	31	20	18	4	20	21	27	29	25	20	31	20	36	38	37	37	53	46	34	46	41	29	3	
	4-D-89-01	1	20	22	27	13	4	1	40	1	14	26	6	8	26	2	23	12	38	24	41	19	25	25	50	54	33	18	16	10	2	1
	5-D-91-01	1	5	3	1	2	9	16	31	20	18	4	20	21	26	1	25	20	31	20	36	38	37	37	53	46	34	46	41	29	3	
	5-D-91-01	1	5	3	1	2	9	16	31	20	18	4	20	21	26	2	23	14	26	9	15	25	22	26	16	6	19	26	1	16	10	17
	G5-93																															
	G4-93																															
F ₃ offspring (G3-91 and G1-88)	16-D-89-03	3	12	6	2	4	1	24	34	23	18	4	20	21	27	29	25	20	31	20	36	38	37	39	2							



Supplemental Figure S1. Assignment of male founder haplotypes. Per-chromosome results of manually inferred male founder haplotypes based on chromosome-level haplotypes of their F₁-F₃ offspring. Chromosomes are split into 1 Mb windows and chromosome-level haplotypes of

individuals are displayed in the following order: first female founder and first male founder followed by three offspring generations, then second male founder, his female mate followed by their first offspring generation. IDs of individuals that were not sequenced, but remained important for the pedigree are indicated in light grey colour. Each 1 Mb window has individual haplotype nomenclature displayed as numbers (identical numbers of the same window represent identical haplotypes). Each haplotype contributed by a founder is assigned an individual colour – two homologous haplotypes of the female founder light and dark yellow, first male founder light and dark green and second male founder light and dark blue. In order to highlight identical 1 Mb windows among all six founder haplotypes colours were assigned in hierarchical order: light yellow, dark yellow, light green, dark green, light blue, dark blue. For example, all 1 Mb windows of the dark yellow haplotype identical to those of the light yellow haplotype were coloured light yellow. Similarly, all 1 Mb haplotypes of the light green haplotype of the first male founder identical to dark yellow haplotype remained dark yellow and those identical to light yellow remained light yellow.