

PC1

Individual HSPDP paralog frequencies of PC cohort 1

no.	ID	age	allele_freq	copies	CN round
1	2	66	65.0	5.4	5
2	3	51	65.5	5.3	5
3	5	67	61.3	6.3	6
4	6	66	70.1	4.3	4
5	8	52	61.6	6.2	6
6	9	66	63.3	5.8	6
7	10	66	62.2	6.1	6
8	11	67	62.5	6.0	6
9	12	70	58.1	7.2	7
10	13	59	63.0	5.9	6
11	14	59	62.4	6.0	6
12	16	64	63.1	5.8	6
13	18	66	63.2	5.8	6
14	19	63	60.1	6.6	7
15	20	62	63.4	5.8	6
16	23	56	63.7	5.7	6
17	24	59	64.8	5.4	5
18	25	62	65.2	5.3	5
19	27	57	63.8	5.7	6
20	28	55	66.8	5.0	5
21	29	59	65.4	5.3	5
22	30	63	62.6	6.0	6
23	32	61	66.3	5.1	5
24	33	66	64.2	5.6	6
25	34	61	64.4	5.5	6
26	35	60	66.3	5.1	5
27	38	70	64.7	5.5	5
28	39	62	62.7	5.9	6
29	40	50	64.9	5.4	5
30	41	66	70.1	4.3	4
31	42	64	65.3	5.3	5
32	43	61	63.0	5.9	6
33	45	58	66.1	5.1	5
34	46	54	65.5	5.3	5
35	47	65	65.5	5.3	5
36	48	67	64.9	5.4	5
37	49	61	65.6	5.2	5
38	51	60	69.2	4.5	4
39	52	56	65.9	5.2	5
40	53	64	65.6	5.2	5
41	54	66	62.5	6.0	6
42	55	57	66.0	5.2	5
43	56	55	66.2	5.1	5
44	58	69	65.4	5.3	5
45	59	60	66.8	5.0	5
46	60	59	67.0	4.9	5
47	62	59	67.3	4.9	5
48	64	63	69.3	4.4	4
49	65	64	65.7	5.2	5

	%G	CN
average	66.0557895	5.16659431
median	65.9	5.17450683
max	73	7.21170396
min	58.1	3.69863014

CN	#
4	16
5	53
6	22
7	4
8	0
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PC1

50	67	69	67.3	4.9	5
51	68	63	65.3	5.3	5
52	71	65	67.9	4.7	5
53	72	61	63.8	5.7	6
54	73	69	64.5	5.5	6
55	74	73	66.0	5.2	5
56	75	60	68.8	4.5	5
57	76	64	65.9	5.2	5
58	77	70	68.9	4.5	5
59	79	66	68.9	4.5	5
60	80	61	69.1	4.5	4
61	83	63	65.1	5.4	5
62	85	60	68.1	4.7	5
63	86	53	69.3	4.4	4
64	87	55	65.9	5.2	5
65	88	66	69.4	4.4	4
66	89	69	60.3	6.6	7
67	90	62	70.3	4.2	4
68	91	77	66.7	5.0	5
69	92	63	71.0	4.1	4
70	93	56	67.8	4.7	5
71	95	68	69.3	4.4	4
72	96	62	69.0	4.5	4
73	97	67	65.7	5.2	5
74	98	63	68.1	4.7	5
75	100	61	68.2	4.7	5
76	102	58	67.9	4.7	5
77	103	58	65.7	5.2	5
78	104	63	66.1	5.1	5
79	105	60	67.2	4.9	5
80	106	63	64.3	5.6	6
81	108	70	60.1	6.6	7
82	110	63	67.6	4.8	5
83	111	59	68.0	4.7	5
84	113	50	68.9	4.5	5
85	114	55	70.0	4.3	4
86	115	68	66.6	5.0	5
87	117	71	70.5	4.2	4
88	119	60	69.2	4.5	4
89	121	64	73.0	3.7	4
90	123	70	61.7	6.2	6
91	124	59	68.9	4.5	5
92	126	66	68.8	4.5	5
93	128	63	71.4	4.0	4
94	129	62	67.5	4.8	5
95	135	64	67.8	4.7	5

PC2

Individual HSPDP paralog frequencies of PC cohort 2

no.	ID	age	allele_freq	copies	CN	round
1	71	57	65.4	5.3	5	
2	82	57	63.6	5.7	6	
3	84	68	59.9	6.7	7	
4	89	67	66.3	5.1	5	
5	95	67	70.5	4.2	4	
6	120	68	69.7	4.3	4	
7	98	59	63.6	5.7	6	
8	99	56	64.3	5.6	6	
9	100	69	70.4	4.2	4	
10	111	65	59.5	6.8	7	
11	113	69	60.7	6.5	6	
12	114	64	66.1	5.1	5	
13	115	59	63.9	5.7	6	
14	117	68	66.8	5.0	5	
15	118	66	66.9	5.0	5	
16	119	58	62.7	6.0	6	
17	97	63	62.2	6.1	6	
18	121	66	69.1	4.5	4	
19	123	55	65.8	5.2	5	
20	124	65	66.3	5.1	5	
21	125	69	71.7	4.0	4	
22	127	64	60.3	6.6	7	
23	128	68	66.3	5.1	5	
24	132	63	70.2	4.3	4	
25	133	69	71.0	4.1	4	
26	134	68	63.4	5.8	6	
27	141	62	63.4	5.8	6	
28	142	63	64.3	5.6	6	
29	145	68	64.5	5.5	6	
30	146	65	54.5	8.4	8	
31	147	66	64.4	5.5	6	
32	149	64	57.0	7.5	8	
33	150	63	64.5	5.5	6	
34	151	59	61.2	6.4	6	
35	155	59	70.5	4.2	4	
36	156	53	64.6	5.5	5	
37	159	56	64.2	5.6	6	
38	160	57	64.8	5.4	5	
39	162	64	58.1	7.2	7	
40	169	67	63.9	5.6	6	
41	170	65	57.2	7.5	7	
42	171	59	68.9	4.5	5	
43	173	65	59.6	6.8	7	
44	175	60	68.9	4.5	5	
45	176	67	59.9	6.7	7	
46	179	66	58.4	7.1	7	
47	180	55	64.8	5.4	5	
48	181	46	64.8	5.4	5	
49	184	63	70.3	4.2	4	
50	185	59	65.4	5.3	5	
51	186	69	69.4	4.4	4	
52	188	64	64.0	5.6	6	

	%G	CN
average	63.71	5.76
median	64.08	5.61
max	71.65	8.37
min	54.45	3.96

CN	#
4	16
5	22
6	32
7	20
8	4
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PC2

53	189	69	59.5	6.8	7
54	190	68	57.2	7.5	7
55	191	67	65.0	5.4	5
56	193	66	59.5	6.8	7
57	197	56	-	-	-
58	200	58	61.9	6.2	6
59	201	63	66.6	5.0	5
60	202	65	61.7	6.2	6
61	203	60	63.5	5.8	6
62	204	65	56.0	7.9	8
63	205	50	56.7	7.6	8
64	206	64	64.4	5.5	6
65	207	59	63.8	5.7	6
66	209	67	57.4	7.4	7
67	211	58	63.8	5.7	6
68	212	66	70.2	4.2	4
69	213	61	60.7	6.5	6
70	215	52	60.0	6.7	7
71	217	65	69.5	4.4	4
72	22	76	61.1	6.4	6
73	223	63	59.2	6.9	7
74	224	68	63.5	5.8	6
75	225	63	69.8	4.3	4
76	226	62	61.3	6.3	6
77	227	60	70.0	4.3	4
78	230	62	58.2	7.2	7
79	231	60	64.7	5.5	5
80	233	68	61.5	6.3	6
81	234	67	58.1	7.2	7
82	276	52	58.2	7.2	7
83	278	64	69.6	4.4	4
84	279	65	61.6	6.2	6
85	280	64	65.6	5.3	5
86	282	65	60.4	6.6	7
87	284	69	65.4	5.3	5
88	286	67	64.2	5.6	6
89	287	60	58.2	7.2	7
90	297	66	61.4	6.3	6
91	298	60	64.7	5.5	5
92	300	68	64.9	5.4	5
93	307	58	64.3	5.6	6
94	308	69	69.5	4.4	4
95	310	64	60.6	6.5	7

CTRL

Individual HSPDP paralog frequencies of control

no.	ID	age	allele_freq	copies	CN	round
1	2	45	53.7	8.6	9	
2	3	52	74.8	3.4	3	
3	5	37	61.1	6.4	6	
4	6	66	59.8	6.7	7	
5	7	34	49.8	10.1	10	
6	13	31	74.8	3.4	3	
7	16	60	59.2	6.9	7	
8	17	34	66.1	5.1	5	
9	19	36	55.5	8.0	8	
10	20	40	64.2	5.6	6	
11	21	67	57.9	7.3	7	
12	23	50	64.2	5.6	6	
13	24	69	63.7	5.7	6	
14	25	32	63.6	5.7	6	
15	26	50	60.1	6.6	7	
16	27	47	65.9	5.2	5	
17	28	53	63.7	5.7	6	
18	29	54	66.2	5.1	5	
19	30	71	45.0	12.2	12	
20	31	41	61.3	6.3	6	
21	32	32	63.6	5.7	6	
22	33	57	61.9	6.2	6	
23	35	44	55.1	8.1	8	
24	36	59	62.2	6.1	6	
25	37	50	68.2	4.7	5	
26	38	45	62.4	6.0	6	
27	40	50	62.4	6.0	6	
28	44	52	62.5	6.0	6	
29	48	56	71.0	4.1	4	
30	50	39	63.4	5.8	6	
31	51	48	62.7	5.9	6	
32	53	46	63.6	5.7	6	
33	54	61	66.1	5.1	5	
34	55	47	63.7	5.7	6	
35	56	50	62.1	6.1	6	
36	57	55	69.7	4.3	4	
37	58	60	64.0	5.6	6	
38	60	34	69.1	4.5	4	
39	61	46	65.0	5.4	5	
40	64	56	65.2	5.3	5	
41	66	43	65.8	5.2	5	
42	67	36	60.1	6.6	7	
43	68	52	65.9	5.2	5	
44	69	56	66.1	5.1	5	
45	70	55	62.6	6.0	6	
46	72	47	66.2	5.1	5	
47	74	55	68.3	4.6	5	
48	75	40	66.8	5.0	5	
49	76	52	66.9	4.9	5	

	%G	CN
average	63.39	5.956
median	63.7	5.699
max	74.8	12.27
min	44.9	3.369

CN	#
3	6
4	8
5	26
6	33
7	9
8	3
9	2
10	4
11	2
12	2
	95

CTRL

50	77	51	67.1	4.9	5
51	78	49	65.7	5.2	5
52	81	43	74.8	3.4	3
53	83	45	67.4	4.8	5
54	84	60	67.7	4.8	5
55	87	55	69.8	4.3	4
56	89	44	70.3	4.2	4
57	90	38	73.2	3.7	4
58	91	56	66.1	5.1	5
59	92	50	74.6	3.4	3
60	93	61	50.7	9.7	10
61	94	53	50.3	9.9	10
62	97	48	74.6	3.4	3
63	101	33	63.6	5.7	6
64	102	52	64.6	5.5	5
65	103	40	62.3	6.1	6
66	104	51	63.3	5.8	6
67	105	58	48.5	10.6	11
68	106	57	60.4	6.6	7
69	107	50	61.4	6.3	6
70	109	63	60.6	6.5	7
71	110	53	70.2	4.2	4
72	111	42	67.3	4.9	5
73	112	49	62.5	6.0	6
74	114	52	61.6	6.2	6
75	116	49	63.2	5.8	6
76	117	56	44.9	12.3	12
77	118	41	74.6	3.4	3
78	119	51	63.6	5.7	6
79	120	45	63.7	5.7	6
80	121	53	59.4	6.8	7
81	122	35	48.6	10.6	11
82	123	49	63.7	5.7	6
83	124	57	62.5	6.0	6
84	125	50	73.8	3.6	4
85	126	48	58.4	7.1	7
86	128	33	66.8	5.0	5
87	130	44	67.8	4.7	5
88	133	49	50.6	9.8	10
89	134	51	63.7	5.7	6
90	139	43	52.5	9.0	9
91	142	46	67.2	4.9	5
92	143	52	68.2	4.7	5
93	144	39	67.2	4.9	5
94	149	47	64.2	5.6	6
95	150	51	56.0	7.9	8