

Table S1. For each CC line, the predicted percentages of their genomes descended from the eight founder inbred strains (A.J, C57BL.6J, 129S1SvImJ, NOD.LtJ, NZO.HILtJ, CAST.EiJ, PWK.PhJ, WSB.EiJ), the average predicted homozygosity in their genomes (hom) and the minimum founder inbred strain percentage of the eight for each CC line (min). The predicted percentages are calculated using the inferred probabilities of descent in each interval between genotyped SNPs produced during the Hidden Markov Model reconstruction of the CC line genomes.

Id	A.J	C57BL.6J	129S1SvImJ	NOD.LtJ	NZO.HILtJ	CAST.EiJ	PWK.PhJ	WSB.EiJ	hom	min
IL-007	8.82	8.88	14.00	20.34	10.97	10.79	4.96	21.23	75.9	4.96
IL-511	5.90	14.01	13.43	10.58	21.15	14.08	7.43	13.42	75.3	5.90
IL-018	7.21	18.48	7.58	10.03	14.56	9.33	11.31	21.49	76.1	7.21
IL-518	8.74	15.87	6.12	11.44	11.63	8.45	13.61	24.14	83.6	6.12
IL-019	15.36	9.44	18.42	14.65	14.98	7.70	9.86	9.59	89.1	7.70
IL-519	13.78	10.60	18.68	12.22	15.40	9.83	7.09	12.41	89.4	7.09
IL-021	27.78	16.89	10.99	22.57	13.56	0.05	0.08	8.08	94.2	0.05
IL-521	18.93	12.41	9.20	12.49	8.73	20.44	7.02	10.78	80.6	7.02
IL-026	9.03	9.27	14.12	8.75	16.71	12.43	5.33	24.36	65.9	5.33
IL-526	17.92	16.01	9.57	11.13	11.13	10.93	6.16	17.14	77.2	6.16
IL-027	17.51	16.90	27.56	13.51	3.91	3.53	4.52	12.55	90.1	3.53
IL-530	10.62	14.84	15.05	14.08	4.77	5.02	12.63	22.98	72.9	4.77
IL-031	12.30	15.04	13.30	13.37	7.31	8.47	10.71	19.50	54.1	7.31
IL-531	12.16	17.22	12.41	13.60	9.42	7.83	10.56	16.80	45.2	7.83
IL-533	13.90	8.96	15.60	14.78	11.19	10.53	19.57	5.46	72.4	5.46
IL-034	12.79	8.97	18.10	17.70	8.53	9.08	11.24	13.60	71.5	8.53
IL-534	13.72	11.31	14.39	14.27	9.02	8.64	13.28	15.36	63.3	8.64
IL-537	12.44	18.42	10.98	13.55	12.22	8.33	11.65	12.40	65.4	8.33
IL-039	9.39	14.98	16.96	14.76	13.71	9.43	5.92	14.85	80.3	5.92
IL-540	14.98	11.77	9.42	12.14	12.11	14.45	7.70	17.43	80.6	7.70
IL-549	28.35	19.30	8.72	24.57	9.93	0.11	0.18	8.84	88.9	0.11
IL-050	27.81	15.46	3.14	10.30	10.77	8.40	0.58	23.53	72.4	0.58
IL-551	10.52	7.56	13.30	2.09	15.17	8.15	9.55	33.66	71.5	2.09
IL-055	7.66	11.27	16.77	7.25	7.54	12.71	20.86	15.93	84.5	7.25
IL-557	10.08	7.63	18.98	11.65	16.60	8.72	11.54	14.79	76.9	7.63
IL-063	15.07	9.71	13.19	14.02	12.51	12.26	8.49	14.75	79.9	8.49
IL-563	18.30	12.26	12.13	17.26	11.14	8.97	4.27	15.67	76.6	4.27
IL-072	17.44	26.73	9.50	27.73	0.70	5.19	0.04	12.67	94.0	0.04
IL-572	15.53	17.87	17.71	26.69	0.55	6.02	0.06	15.57	93.7	0.06
IL-576	8.81	16.46	13.66	12.20	11.17	8.99	10.72	17.98	82.5	8.81
IL-599	18.09	8.04	16.26	16.26	13.49	10.35	5.91	11.61	80.2	5.91
IL-100	11.35	12.94	15.37	12.97	18.39	12.79	4.36	11.82	79.4	4.36

IL-600	9.19	12.68	13.32	16.58	15.81	9.33	5.16	17.93	80.2	5.16
IL-108	29.08	9.89	13.73	15.39	12.85	5.72	4.41	8.92	84.6	4.41
IL-111	12.70	33.71	23.26	5.75	24.18	0.08	0.11	0.21	90.4	0.08
IL-611	12.51	31.98	23.08	7.02	24.97	0.08	0.16	0.21	89.5	0.08
IL-114	12.48	12.28	13.05	9.57	15.18	14.94	7.54	14.97	52.2	7.54
IL-621	18.79	16.81	6.11	8.86	11.60	16.68	12.65	8.49	80.6	6.11
IL-627	10.98	15.07	6.41	14.52	8.81	14.76	18.33	11.11	63.5	6.41
IL-134	12.37	13.43	13.53	11.49	17.85	12.14	8.40	10.78	71.6	8.40
IL-634	9.16	10.58	13.91	12.48	18.13	15.01	7.46	13.27	76.4	7.46
IL-135	11.18	15.75	9.98	18.86	15.75	14.75	6.12	7.60	75.7	6.12
IL-635	10.33	12.78	9.08	16.37	18.88	14.82	9.37	8.36	76.9	8.36
IL-140	2.51	2.26	25.93	24.72	24.84	18.92	0.36	0.46	83.0	0.36
IL-640	1.38	1.63	26.61	28.45	26.09	14.87	0.43	0.53	83.2	0.43
IL-143	8.55	16.12	6.99	13.44	12.39	10.55	11.40	20.55	87.9	6.99
IL-145	18.67	13.50	16.42	12.28	9.93	9.55	8.82	10.83	86.3	8.82
IL-645	14.71	15.39	17.87	12.12	11.49	9.99	7.31	11.12	77.7	7.31
IL-152	12.11	18.32	11.19	10.11	12.18	8.82	10.83	16.44	77.7	8.82
IL-169	17.79	9.30	18.45	13.48	9.56	8.82	9.50	13.10	74.0	8.82
IL-177	6.18	9.70	19.70	10.66	11.84	8.71	13.95	19.25	82.7	6.18
IL-182	12.66	18.79	15.84	10.82	10.14	11.12	6.06	14.55	83.9	6.06
IL-682	12.39	16.79	18.33	16.66	7.70	9.59	4.61	13.93	84.8	4.61
IL-188	10.59	13.23	22.62	8.54	11.79	5.52	6.10	21.60	80.7	5.52
IL-688	9.86	11.98	23.43	7.84	13.51	5.26	6.71	21.42	83.1	5.26
IL-196	11.44	14.94	17.59	11.26	9.86	13.57	7.00	14.33	79.6	7.00
IL-696	16.73	15.41	19.80	14.65	7.18	11.63	5.47	9.13	72.9	5.47
IL-699	11.79	16.68	10.62	15.28	15.78	13.76	11.24	4.85	77.1	4.85
IL-211	15.93	13.74	18.79	23.18	11.59	5.94	5.74	5.08	92.7	5.08
IL-719	10.20	25.20	11.08	18.16	8.49	14.90	0.18	11.79	89.4	0.18
IL-285	9.61	10.64	11.80	11.06	9.80	18.78	10.22	18.08	76.4	9.61
IL-291	12.40	8.67	13.96	9.87	18.85	7.82	14.84	13.59	72.3	7.82
IL-299	8.70	14.86	17.79	9.14	12.58	12.20	15.39	9.34	75.6	8.70
IL-799	9.71	14.22	16.00	11.85	9.90	11.46	14.21	12.65	79.1	9.71
IL-312	13.23	16.34	13.17	13.78	12.81	4.98	13.20	12.49	76.6	4.98
IL-812	8.30	16.10	15.16	15.28	8.27	5.93	14.26	16.71	66.3	5.93