

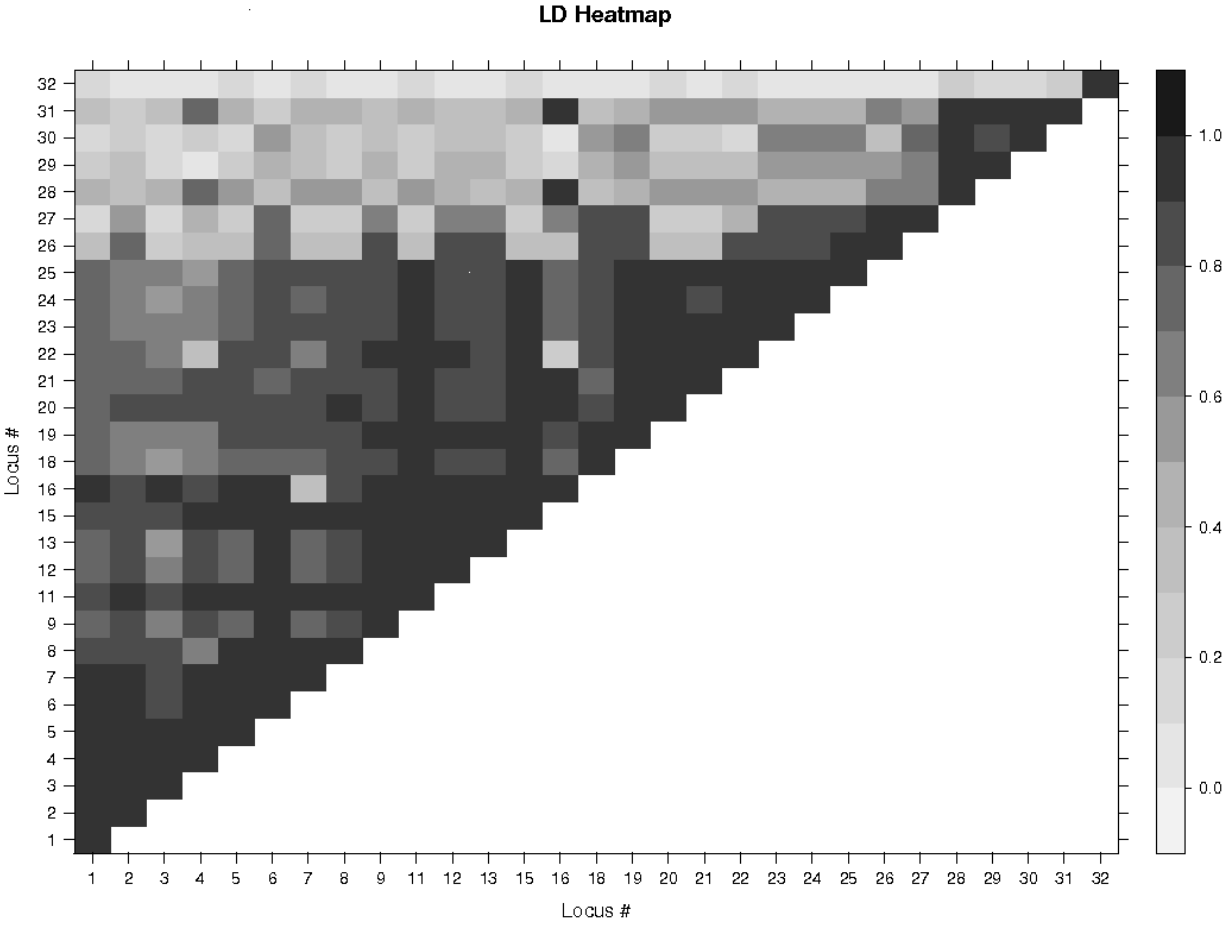
Type of file: figure

Label: Figures

Filename: suppfigs.doc

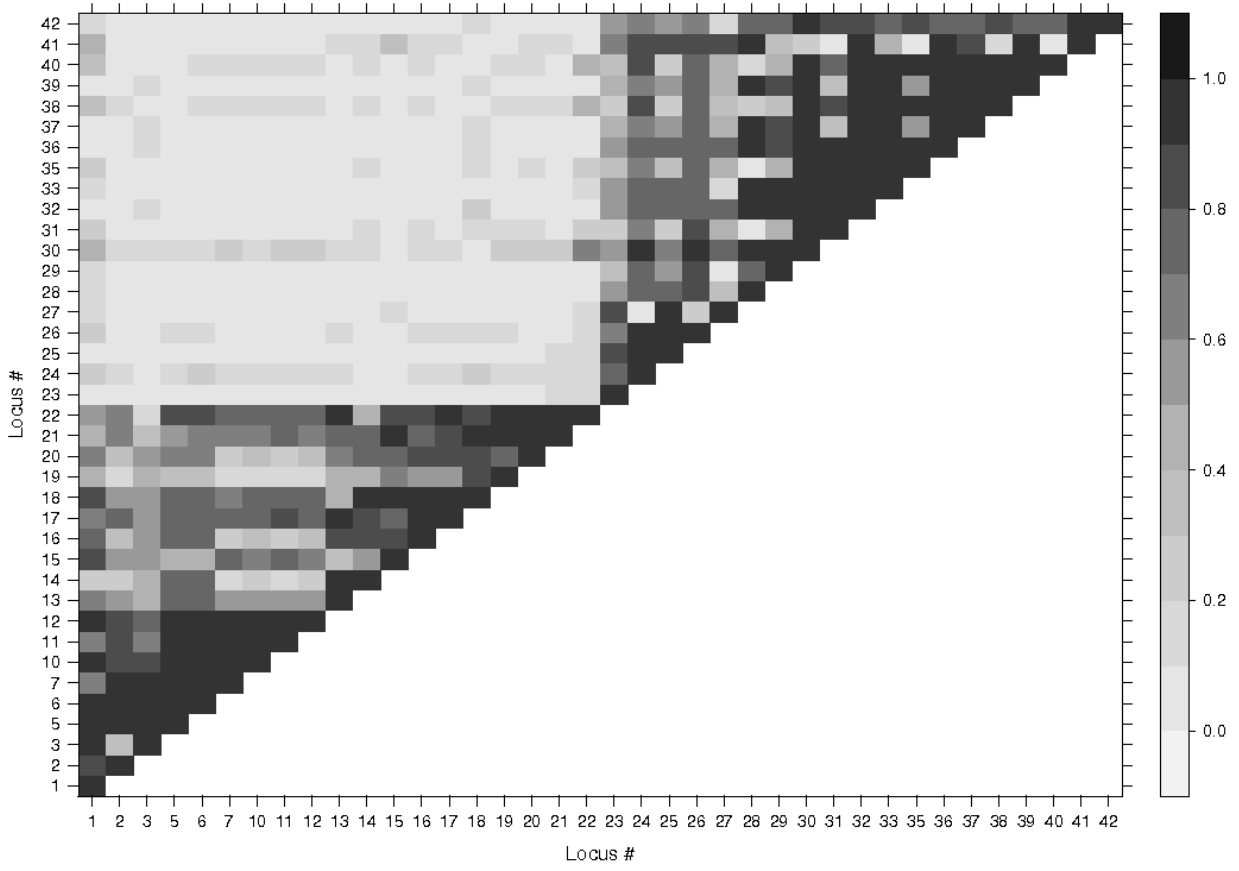
Supplemental Figure 1. D' linkage disequilibrium plots for *RXRA* (A) and *VDR* (B)

A.



B.

LD Heatmap



Type of file: table

Label: Tables

Filename: supptables.doc

Supplemental Table 1. Association between SNPs on *RXRA* gene (chromosome 9) and metachronous colorectal neoplasia

SNP	Position	Locus ¹	Additive inheritance					Dominant inheritance					Recessive inheritance							
			OR	95%CI		p	pACT ²	OR	95%CI		p	pACT ²	OR	95%CI		p	pACT ²			
Any site																				
rs1007971	134561859	1	1.19	0.98	-	1.43	0.075	0.862	1.18	0.95	-	1.47	0.134	0.967	1.53	0.87	-	2.70	0.144	0.973
rs10114634	134527207	2	0.77	0.53	-	1.12	0.169	0.985	0.78	0.53	-	1.14	0.191	0.989	NA	NA	-	NA	NA	NA
rs1045570	134558256	3	0.98	0.80	-	1.21	0.857	1.000	0.98	0.78	-	1.24	0.888	1.000	0.92	0.42	-	2.05	0.844	1.000
rs10776909	134514691	4	1.17	0.97	-	1.40	0.096	0.914	1.25	1.01	-	1.55	0.038	0.657	0.91	0.53	-	1.56	0.729	1.000
rs11102986	134511490	5	1.12	0.93	-	1.36	0.234	0.996	1.16	0.93	-	1.45	0.181	0.989	1.02	0.54	-	1.89	0.960	1.000
rs11103473	134513574	6	0.97	0.83	-	1.14	0.744	1.000	0.96	0.77	-	1.18	0.678	1.000	0.99	0.72	-	1.38	0.971	1.000
rs12004589	134516670	7	0.76	0.60	-	0.96	0.022	0.482	0.74	0.57	-	0.97	0.027	0.554	0.58	0.23	-	1.45	0.247	0.997
rs12004786	134536181	8	0.85	0.41	-	1.74	0.647	1.000	0.85	0.41	-	1.74	0.647	1.000	NA	NA	-	NA	NA	NA
rs1536475	134547101	9	1.05	0.87	-	1.27	0.584	1.000	1.07	0.86	-	1.34	0.531	1.000	1.01	0.58	-	1.76	0.967	1.000
rs1805343	134554231	10	0.96	0.82	-	1.12	0.579	1.000	0.92	0.75	-	1.14	0.442	1.000	1.01	0.72	-	1.40	0.971	1.000
rs1805352	134525894	11	0.90	0.77	-	1.06	0.224	0.995	0.87	0.71	-	1.08	0.208	0.992	0.90	0.62	-	1.31	0.595	1.000
rs3118523	134561466	12	1.12	0.92	-	1.35	0.270	0.998	1.09	0.88	-	1.36	0.432	1.000	1.53	0.82	-	2.85	0.185	0.989
rs3118526	134563302	13	1.25	0.99	-	1.57	0.060	0.801	1.28	0.99	-	1.64	0.058	0.793	1.31	0.53	-	3.25	0.554	1.000
rs3118529	134530860	14	0.90	0.77	-	1.06	0.227	0.995	0.88	0.71	-	1.08	0.219	0.994	0.90	0.62	-	1.30	0.570	1.000
rs3118535	134531766	15	0.98	0.74	-	1.30	0.894	1.000	1.00	0.74	-	1.36	0.976	1.000	0.59	0.15	-	2.36	0.454	1.000
rs3118536	134534407	16	1.09	0.89	-	1.32	0.413	1.000	1.13	0.91	-	1.42	0.277	0.998	0.87	0.46	-	1.64	0.665	1.000
rs3118570	134546800	17	1.06	0.88	-	1.29	0.527	1.000	1.09	0.87	-	1.36	0.460	1.000	1.00	0.56	-	1.78	0.997	1.000
rs3118571	134544123	18	0.94	0.80	-	1.10	0.438	1.000	0.88	0.71	-	1.08	0.215	0.993	1.05	0.76	-	1.46	0.757	1.000
rs3132293	134551767	19	0.93	0.78	-	1.10	0.397	1.000	0.94	0.76	-	1.16	0.551	1.000	0.81	0.52	-	1.27	0.355	1.000
rs3132296	134528576	20	0.90	0.76	-	1.06	0.204	0.991	0.87	0.71	-	1.07	0.192	0.988	0.90	0.61	-	1.31	0.569	1.000
rs3132297	134527811	21	1.12	0.92	-	1.36	0.269	0.998	1.17	0.94	-	1.47	0.157	0.980	0.86	0.45	-	1.64	0.642	1.000
rs3132299	134524760	22	1.05	0.87	-	1.28	0.595	1.000	1.11	0.89	-	1.38	0.364	1.000	0.77	0.41	-	1.43	0.405	1.000
rs3132300	134521430	23	1.03	0.86	-	1.24	0.725	1.000	1.05	0.85	-	1.31	0.625	1.000	0.95	0.55	-	1.62	0.844	1.000
rs3132301	134519975	24	1.06	0.88	-	1.28	0.564	1.000	1.09	0.88	-	1.36	0.436	1.000	0.92	0.51	-	1.64	0.766	1.000
rs4240705	134537345	25	0.97	0.83	-	1.13	0.690	1.000	0.94	0.76	-	1.16	0.568	1.000	1.01	0.73	-	1.38	0.965	1.000
rs4240711	134555251	26	0.96	0.82	-	1.12	0.602	1.000	0.91	0.74	-	1.12	0.360	1.000	1.06	0.76	-	1.48	0.728	1.000
rs4842196	134559173	27	1.00	0.84	-	1.19	0.998	0.998	0.97	0.79	-	1.20	0.783	1.000	1.14	0.73	-	1.77	0.567	1.000

rs748964	134560034	28	1.24	0.99	-	1.55	0.064	0.819	1.28	1.00	-	1.64	0.046	0.720	1.07	0.45	-	2.54	0.878	1.000
rs7861779	134535406	29	0.74	0.59	-	0.92	0.007	0.204	0.69	0.54	-	0.88	0.003	0.100	0.94	0.44	-	2.03	0.878	1.000
rs875444	134521249	30	0.92	0.79	-	1.07	0.297	0.999	0.85	0.69	-	1.06	0.144	0.973	1.00	0.74	-	1.34	0.997	1.000
rs877954	134552353	21	0.93	0.80	-	1.09	0.379	1.000	0.87	0.70	-	1.07	0.186	0.988	1.04	0.75	-	1.45	0.818	1.000
rs9409929	134566458	32	0.90	0.77	-	1.05	0.181	0.989	0.83	0.67	-	1.03	0.088	0.898	0.97	0.71	-	1.33	0.857	1.000

Proximal Neoplasia

rs1007971	134561859	1	1.15	0.95	-	1.40	0.161	0.976	1.11	0.88	-	1.39	0.384	1.000	1.76	1.00	-	3.10	0.052	0.748
rs10114634	134527207	2	0.63	0.41	-	0.97	0.034	0.620	0.63	0.41	-	0.97	0.037	0.650	NA	NA	-	NA	NA	NA
rs1045570	134558256	3	0.93	0.75	-	1.17	0.540	1.000	0.94	0.73	-	1.20	0.607	1.000	0.78	0.32	-	1.89	0.584	1.000
rs10776909	134514691	4	1.21	1.00	-	1.46	0.055	0.758	1.22	0.98	-	1.53	0.080	0.857	1.41	0.81	-	2.45	0.227	0.995
rs11102986	134511490	5	1.15	0.94	-	1.41	0.183	0.986	1.12	0.89	-	1.42	0.321	0.999	1.60	0.85	-	2.99	0.143	0.967
rs11103473	134513574	6	0.96	0.81	-	1.13	0.616	1.000	0.89	0.71	-	1.11	0.309	0.999	1.10	0.78	-	1.55	0.595	1.000
rs12004589	134516670	7	0.71	0.55	-	0.92	0.010	0.280	0.71	0.54	-	0.95	0.021	0.469	0.33	0.10	-	1.12	0.076	0.852
rs12004786	134536181	8	0.58	0.25	-	1.36	0.209	0.993	0.58	0.25	-	1.36	0.209	0.992	NA	NA	-	NA	NA	NA
rs1536475	134547101	9	1.04	0.85	-	1.27	0.703	1.000	1.00	0.79	-	1.26	1.000	1.000	1.38	0.78	-	2.43	0.264	0.998
rs1805343	134554231	10	0.95	0.80	-	1.12	0.508	1.000	0.91	0.73	-	1.13	0.389	1.000	0.99	0.70	-	1.41	0.964	1.000
rs1805352	134525894	11	0.85	0.72	-	1.02	0.076	0.852	0.81	0.65	-	1.01	0.067	0.817	0.85	0.57	-	1.27	0.426	1.000
rs3118523	134561466	12	1.01	0.82	-	1.24	0.910	1.000	0.98	0.78	-	1.24	0.872	1.000	1.30	0.69	-	2.46	0.417	1.000
rs3118526	134563302	13	1.24	0.97	-	1.57	0.083	0.866	1.25	0.96	-	1.63	0.095	0.898	1.47	0.59	-	3.69	0.406	1.000
rs3118529	134530860	14	0.85	0.72	-	1.02	0.078	0.855	0.82	0.66	-	1.02	0.079	0.857	0.83	0.55	-	1.25	0.373	1.000
rs3118535	134531766	15	1.11	0.83	-	1.49	0.495	1.000	1.15	0.84	-	1.58	0.374	1.000	0.58	0.12	-	2.78	0.492	1.000
rs3118536	134534407	16	1.07	0.87	-	1.31	0.546	1.000	1.06	0.84	-	1.34	0.633	1.000	1.22	0.64	-	2.33	0.551	1.000
rs3118570	134546800	17	1.07	0.88	-	1.31	0.501	1.000	1.05	0.83	-	1.33	0.682	1.000	1.34	0.74	-	2.41	0.333	1.000
rs3118571	134544123	18	0.93	0.79	-	1.10	0.381	1.000	0.88	0.70	-	1.10	0.256	0.997	0.99	0.70	-	1.40	0.945	1.000
rs3132293	134551767	19	0.93	0.77	-	1.12	0.436	1.000	0.91	0.73	-	1.14	0.433	1.000	0.92	0.57	-	1.48	0.723	1.000
rs3132296	134528576	20	0.85	0.71	-	1.01	0.069	0.822	0.81	0.65	-	1.01	0.057	0.765	0.86	0.57	-	1.28	0.451	1.000
rs3132297	134527811	21	1.08	0.88	-	1.33	0.453	1.000	1.09	0.86	-	1.37	0.498	1.000	1.19	0.61	-	2.32	0.615	1.000
rs3132299	134524760	22	1.07	0.87	-	1.31	0.506	1.000	1.08	0.86	-	1.36	0.506	1.000	1.09	0.58	-	2.06	0.790	1.000
rs3132300	134521430	23	1.00	0.82	-	1.22	0.985	1.000	0.97	0.77	-	1.22	0.797	1.000	1.22	0.70	-	2.12	0.485	1.000
rs3132301	134519975	24	1.07	0.87	-	1.30	0.522	1.000	1.05	0.83	-	1.32	0.709	1.000	1.34	0.74	-	2.41	0.333	1.000
rs4240705	134537345	25	0.95	0.80	-	1.12	0.511	1.000	0.95	0.75	-	1.18	0.624	1.000	0.90	0.64	-	1.27	0.546	1.000
rs4240711	134555251	26	0.95	0.80	-	1.12	0.523	1.000	0.90	0.72	-	1.12	0.329	1.000	1.04	0.73	-	1.47	0.847	1.000

rs4842196	134559173	27	0.97	0.81	-	1.17	0.752	1.000	0.93	0.74	-	1.16	0.523	1.000	1.13	0.71	-	1.79	0.600	1.000
rs748964	134560034	28	1.17	0.92	-	1.48	0.196	0.990	1.18	0.92	-	1.53	0.198	0.990	1.24	0.51	-	3.01	0.635	1.000
rs7861779	134535406	29	0.68	0.53	-	0.86	0.001	0.059	0.65	0.50	-	0.85	0.001	0.059	0.57	0.23	-	1.42	0.229	0.995
rs875444	134521249	30	0.92	0.78	-	1.09	0.346	1.000	0.82	0.65	-	1.03	0.091	0.889	1.08	0.79	-	1.48	0.619	1.000
rs877954	134552353	31	0.92	0.78	-	1.08	0.309	0.999	0.86	0.69	-	1.07	0.169	0.980	1.00	0.71	-	1.43	0.984	1.000
rs9409929	134566458	32	0.88	0.75	-	1.04	0.144	0.967	0.80	0.64	-	1.00	0.055	0.760	0.98	0.70	-	1.37	0.909	1.000

Distal Neoplasia

rs1007971	134561859	1	1.10	0.88	-	1.36	0.408	1.000	1.17	0.91	-	1.50	0.224	0.996	0.79	0.39	-	1.59	0.508	1.000
rs10114634	134527207	2	1.07	0.70	-	1.64	0.764	1.000	1.08	0.70	-	1.67	0.721	1.000	NA	NA	-	NA	NA	NA
rs1045570	134558256	3	1.10	0.86	-	1.40	0.438	1.000	1.16	0.89	-	1.52	0.260	0.998	0.60	0.20	-	1.75	0.348	1.000
rs10776909	134514691	4	1.11	0.90	-	1.37	0.349	1.000	1.28	1.00	-	1.64	0.048	0.741	0.38	0.16	-	0.90	0.028	0.569
rs11102986	134511490	5	1.10	0.88	-	1.37	0.415	1.000	1.22	0.95	-	1.58	0.117	0.955	0.43	0.17	-	1.10	0.079	0.884
rs11103473	134513574	6	1.14	0.95	-	1.37	0.163	0.983	1.25	0.98	-	1.61	0.077	0.879	1.03	0.71	-	1.51	0.869	1.000
rs12004589	134516670	7	1.10	0.85	-	1.44	0.469	1.000	1.08	0.80	-	1.46	0.614	1.000	1.59	0.64	-	3.98	0.320	0.999
rs12004786	134536181	8	1.52	0.71	-	3.25	0.285	0.999	1.52	0.71	-	3.25	0.285	0.999	NA	NA	-	NA	NA	NA
rs1536475	134547101	9	1.09	0.88	-	1.35	0.436	1.000	1.20	0.93	-	1.54	0.170	0.986	0.66	0.32	-	1.36	0.255	0.998
rs1805343	134554231	10	1.08	0.90	-	1.29	0.405	1.000	1.16	0.91	-	1.49	0.233	0.997	0.98	0.66	-	1.44	0.909	1.000
rs1805352	134525894	11	1.05	0.87	-	1.27	0.603	1.000	1.10	0.86	-	1.40	0.439	1.000	0.96	0.62	-	1.48	0.852	1.000
rs3118523	134561466	12	1.09	0.87	-	1.36	0.452	1.000	1.12	0.86	-	1.44	0.403	1.000	1.02	0.50	-	2.10	0.955	1.000
rs3118526	134563302	13	1.04	0.79	-	1.35	0.792	1.000	1.06	0.79	-	1.42	0.709	1.000	0.84	0.28	-	2.55	0.760	1.000
rs3118529	134530860	14	1.06	0.88	-	1.28	0.553	1.000	1.10	0.87	-	1.41	0.424	1.000	0.98	0.64	-	1.52	0.943	1.000
rs3118535	134531766	15	0.82	0.58	-	1.16	0.256	0.998	0.83	0.58	-	1.19	0.314	0.999	0.39	0.05	-	3.15	0.379	1.000
rs3118536	134534407	16	1.08	0.86	-	1.36	0.501	1.000	1.20	0.93	-	1.55	0.166	0.984	0.44	0.17	-	1.14	0.092	0.914
rs3118570	134546800	17	1.07	0.86	-	1.33	0.568	1.000	1.16	0.90	-	1.50	0.256	0.998	0.62	0.29	-	1.34	0.227	0.996
rs3118571	134544123	18	1.08	0.90	-	1.29	0.423	1.000	1.11	0.87	-	1.42	0.406	1.000	1.08	0.74	-	1.57	0.699	1.000
rs3132293	134551767	19	1.01	0.83	-	1.24	0.899	1.000	1.09	0.85	-	1.39	0.512	1.000	0.74	0.42	-	1.29	0.291	0.999
rs3132296	134528576	20	1.07	0.89	-	1.30	0.470	1.000	1.12	0.88	-	1.43	0.367	1.000	1.01	0.65	-	1.56	0.972	0.999
rs3132297	134527811	21	1.11	0.89	-	1.39	0.361	1.000	1.23	0.95	-	1.59	0.112	0.948	0.47	0.18	-	1.21	0.119	0.956
rs3132299	134524760	22	1.09	0.88	-	1.37	0.427	1.000	1.21	0.94	-	1.56	0.140	0.974	0.50	0.21	-	1.21	0.124	0.960
rs3132300	134521430	23	1.10	0.89	-	1.36	0.390	1.000	1.22	0.95	-	1.56	0.117	0.954	0.60	0.29	-	1.23	0.161	0.984
rs3132301	134519975	24	1.07	0.86	-	1.33	0.565	1.000	1.20	0.93	-	1.54	0.165	0.984	0.44	0.19	-	1.05	0.064	0.828
rs4240705	134537345	25	1.08	0.90	-	1.30	0.396	1.000	1.08	0.84	-	1.39	0.527	1.000	1.15	0.80	-	1.66	0.436	1.000

rs4240711	134555251	26	1.09	0.91	-	1.30	0.373	1.000	1.16	0.90	-	1.48	0.247	0.998	1.01	0.69	-	1.49	0.959	1.000
rs4842196	134559173	27	1.14	0.94	-	1.39	0.185	0.991	1.23	0.96	-	1.57	0.100	0.930	0.99	0.59	-	1.66	0.969	1.000
rs748964	134560034	28	1.11	0.86	-	1.44	0.415	1.000	1.16	0.88	-	1.55	0.294	0.999	0.74	0.25	-	2.22	0.595	1.000
rs7861779	134535406	29	1.01	0.79	-	1.30	0.925	1.000	0.96	0.73	-	1.28	0.801	1.000	1.60	0.71	-	3.59	0.258	0.998
rs875444	134521249	30	1.11	0.92	-	1.32	0.270	0.998	1.17	0.90	-	1.51	0.231	0.997	1.09	0.77	-	1.53	0.626	1.000
rs877954	134552353	31	1.09	0.91	-	1.30	0.368	1.000	1.15	0.90	-	1.47	0.262	0.998	1.03	0.70	-	1.51	0.892	1.000
rs9409929	134566458	32	0.89	0.74	-	1.07	0.204	0.994	0.84	0.65	-	1.07	0.154	0.982	0.91	0.63	-	1.33	0.642	1.000

¹Locus numbers correspond to locus numbers in heatmaps found in Figure 3.

²*P*-values were adjusted for multiple comparisons using a modification of P_{ACT} for correlated tests developed by Conneely and Boehnke (41).

Supplemental Table 2. Association between SNPs on *VDR* gene (chromosome 12) and metachronous colorectal neoplasia

SNP	Position	Locus ¹	Additive inheritance						Dominant inheritance				Recessive inheritance							
			OR	95%CI		p	pACT ²	OR	95%CI		p	pACT ²	OR	95%CI		p	pACT ²			
Any site																				
rs10783215	46518165	1	1.02	0.88	-	1.18	0.829	1.000	1.04	0.82	-	1.32	0.739	1.000	1.00	0.78	-	1.28	0.992	0.992
rs10875695	46579304	2	0.99	0.84	-	1.17	0.935	1.000	1.06	0.86	-	1.30	0.608	1.000	0.78	0.51	-	1.17	0.230	1.000
rs11168267	46537809	3	0.82	0.63	-	1.05	0.120	0.995	0.78	0.60	-	1.03	0.083	0.978	1.18	0.38	-	3.67	0.776	1.000
rs11168287	46571681	4	0.91	0.78	-	1.05	0.197	1.000	0.83	0.66	-	1.05	0.124	0.996	0.93	0.73	-	1.19	0.579	1.000
rs11168293	46579983	5	0.92	0.79	-	1.07	0.286	1.000	0.88	0.72	-	1.09	0.237	1.000	0.93	0.67	-	1.30	0.688	1.000
rs11568820	46588812	6	0.95	0.79	-	1.13	0.566	1.000	0.95	0.77	-	1.17	0.618	1.000	0.90	0.55	-	1.47	0.669	1.000
rs11574026	46574513	7	0.93	0.74	-	1.15	0.495	1.000	0.92	0.72	-	1.17	0.503	1.000	0.89	0.37	-	2.11	0.784	1.000
rs11574077	46539194	8	1.26	0.89	-	1.79	0.196	1.000	1.20	0.82	-	1.75	0.337	1.000	5.96	0.69	-	51.14	0.104	0.991
rs11574139	46521822	9	0.83	0.54	-	1.26	0.381	1.000	0.80	0.52	-	1.23	0.314	1.000	NA	NA	-	NA	NA	NA
rs11574143	46521184	10	0.85	0.67	-	1.08	0.192	1.000	0.82	0.63	-	1.07	0.141	0.998	1.06	0.43	-	2.63	0.896	1.000
rs12581281	46581400	11	1.14	0.66	-	1.97	0.644	1.000	1.10	0.62	-	1.93	0.750	1.000	NA	NA	-	NA	NA	NA
rs12721364	46517697	12	1.08	0.88	-	1.33	0.445	1.000	1.02	0.81	-	1.29	0.859	1.000	2.28	1.05	-	4.94	0.037	0.852
rs1540339	46543593	13	1.07	0.92	-	1.25	0.366	1.000	1.06	0.86	-	1.31	0.605	1.000	1.17	0.87	-	1.58	0.289	1.000
rs1544410	46526102	14	1.01	0.87	-	1.18	0.864	1.000	0.98	0.79	-	1.21	0.825	1.000	1.09	0.82	-	1.46	0.537	1.000
rs1989969	46564277	15	0.93	0.80	-	1.08	0.352	1.000	0.92	0.74	-	1.14	0.440	1.000	0.90	0.68	-	1.19	0.449	1.000
rs2107301	46541837	16	1.03	0.88	-	1.21	0.727	1.000	1.02	0.83	-	1.26	0.850	1.000	1.09	0.75	-	1.58	0.641	1.000
rs2189480	46550095	17	1.21	1.04	-	1.40	0.014	0.559	1.24	1.01	-	1.54	0.043	0.887	1.36	1.01	-	1.83	0.042	0.882
rs2238135	46564457	18	1.07	0.90	-	1.27	0.420	1.000	1.17	0.95	-	1.44	0.144	0.998	0.80	0.51	-	1.25	0.327	1.000
rs2238136	46563980	19	1.09	0.92	-	1.28	0.334	1.000	1.14	0.93	-	1.41	0.209	1.000	0.98	0.64	-	1.49	0.917	1.000
rs2239179	46544033	20	0.93	0.80	-	1.08	0.317	1.000	0.91	0.73	-	1.13	0.389	1.000	0.90	0.68	-	1.19	0.450	1.000
rs2239180	46542313	21	1.01	0.80	-	1.28	0.908	1.000	0.97	0.76	-	1.25	0.830	1.000	1.98	0.71	-	5.47	0.189	1.000
rs2239182	46541678	22	1.01	0.87	-	1.17	0.935	1.000	0.96	0.75	-	1.22	0.737	1.000	1.06	0.83	-	1.35	0.644	1.000
rs2239186	46555677	23	1.16	0.96	-	1.38	0.117	0.995	1.24	1.00	-	1.53	0.054	0.928	0.97	0.59	-	1.61	0.912	1.000
rs2248098	46539623	24	1.02	0.88	-	1.19	0.745	1.000	1.02	0.81	-	1.29	0.841	1.000	1.04	0.81	-	1.34	0.738	1.000

rs2254210	46559981	25	0.87	0.75	-	1.02	0.080	0.976	0.81	0.66	-	1.01	0.057	0.934	0.89	0.66	-	1.19	0.422	1.000
rs2283343	46541045	26	1.04	0.90	-	1.21	0.588	1.000	1.04	0.82	-	1.32	0.738	1.000	1.07	0.84	-	1.37	0.579	1.000
rs2525044	46528523	27	1.04	0.90	-	1.21	0.589	1.000	1.05	0.84	-	1.31	0.675	1.000	1.07	0.81	-	1.40	0.640	1.000
rs3782905	46552434	28	0.85	0.73	-	1.00	0.051	0.917	0.81	0.66	-	1.00	0.051	0.919	0.83	0.58	-	1.19	0.308	1.000
rs3819545	46551273	29	1.21	1.04	-	1.41	0.013	0.531	1.27	1.02	-	1.58	0.032	0.817	1.32	0.99	-	1.75	0.059	0.940
rs3923693	46623896	30	0.94	0.75	-	1.18	0.599	1.000	0.92	0.72	-	1.17	0.498	1.000	1.18	0.49	-	2.86	0.706	1.000
rs4237856	46624317	31	0.97	0.82	-	1.15	0.713	1.000	1.03	0.83	-	1.27	0.793	1.000	0.72	0.47	-	1.12	0.145	0.998
rs4328262	46571915	32	1.14	0.98	-	1.33	0.082	0.977	1.10	0.88	-	1.37	0.389	1.000	1.35	1.02	-	1.77	0.034	0.831
rs4516035	46586093	33	0.97	0.83	-	1.12	0.647	1.000	0.93	0.75	-	1.16	0.535	1.000	0.99	0.75	-	1.31	0.952	1.000
rs4760648	46566932	34	1.01	0.87	-	1.17	0.879	1.000	1.08	0.86	-	1.34	0.502	1.000	0.93	0.72	-	1.21	0.602	1.000
rs4760655	46580398	35	1.08	0.93	-	1.25	0.328	1.000	1.10	0.89	-	1.35	0.396	1.000	1.12	0.83	-	1.52	0.458	1.000
rs4760658	46582753	36	0.89	0.77	-	1.04	0.158	0.999	0.86	0.70	-	1.06	0.152	0.999	0.88	0.64	-	1.22	0.456	1.000
rs7299460	46582535	37	1.01	0.86	-	1.18	0.935	1.000	0.99	0.80	-	1.22	0.927	1.000	1.06	0.75	-	1.50	0.740	1.000
rs7310552	46590126	38	0.96	0.82	-	1.11	0.558	1.000	0.92	0.74	-	1.14	0.428	1.000	0.99	0.75	-	1.31	0.943	1.000
rs731236	46525024	39	1.00	0.86	-	1.17	0.960	1.000	0.97	0.79	-	1.21	0.814	1.000	1.06	0.79	-	1.42	0.679	1.000
rs7970314	46594441	40	0.96	0.81	-	1.14	0.648	1.000	0.95	0.77	-	1.17	0.626	1.000	0.97	0.62	-	1.51	0.885	1.000
rs886441	46549231	41	0.90	0.75	-	1.09	0.293	1.000	0.87	0.70	-	1.09	0.225	1.000	1.00	0.56	-	1.77	0.988	1.000
rs987849	46540943	42	1.02	0.88	-	1.18	0.771	1.000	1.04	0.83	-	1.30	0.755	1.000	1.02	0.79	-	1.32	0.877	1.000

Proximal Neoplasia

rs10783215	46518165	1	0.96	0.82	-	1.13	0.625	1.000	0.89	0.70	-	1.14	0.370	1.000	1.02	0.78	-	1.32	0.900	1.000
rs10875695	46579304	2	1.04	0.87	-	1.24	0.686	1.000	1.01	0.81	-	1.27	0.897	1.000	1.17	0.77	-	1.79	0.462	1.000
rs11168267	46537809	3	0.88	0.67	-	1.16	0.361	1.000	0.86	0.64	-	1.16	0.326	1.000	1.01	0.30	-	3.36	0.993	1.000
rs11168287	46571681	4	0.96	0.82	-	1.12	0.574	1.000	0.89	0.69	-	1.14	0.344	1.000	1.01	0.78	-	1.30	0.968	1.000
rs11168293	46579983	5	0.90	0.76	-	1.06	0.192	1.000	0.85	0.68	-	1.06	0.146	0.999	0.92	0.65	-	1.30	0.633	1.000
rs11568820	46588812	6	1.11	0.92	-	1.34	0.289	1.000	1.11	0.89	-	1.39	0.370	1.000	1.25	0.75	-	2.08	0.397	1.000
rs11574026	46574513	7	0.92	0.73	-	1.16	0.487	1.000	0.89	0.69	-	1.15	0.369	1.000	1.25	0.52	-	3.04	0.620	1.000
rs11574077	46539194	8	1.38	0.97	-	1.98	0.077	0.977	1.35	0.91	-	1.99	0.135	0.998	4.07	0.74	-	22.33	0.106	0.993
rs11574139	46521822	9	0.81	0.51	-	1.27	0.352	1.000	0.81	0.51	-	1.29	0.384	1.000	NA	NA	-	NA	NA	NA
rs11574143	46521184	10	0.99	0.77	-	1.27	0.949	1.000	1.00	0.76	-	1.31	0.978	1.000	0.93	0.35	-	2.46	0.882	1.000

rs12581281	46581400	11	1.20	0.68	-	2.12	0.523	1.000	1.15	0.64	-	2.06	0.650	1.000	NA	NA	NA	NA	NA	
rs12721364	46517697	12	1.00	0.80	-	1.25	0.993	1.000	0.95	0.74	-	1.22	0.696	1.000	1.63	0.75	-	3.50	0.214	1.000
rs1540339	46543593	13	1.01	0.86	-	1.19	0.861	1.000	1.00	0.80	-	1.25	0.988	1.000	1.06	0.78	-	1.45	0.713	1.000
rs1544410	46526102	14	1.05	0.89	-	1.23	0.548	1.000	1.00	0.80	-	1.27	0.969	1.000	1.18	0.88	-	1.59	0.278	1.000
rs1989969	46564277	15	0.95	0.81	-	1.11	0.486	1.000	0.92	0.73	-	1.16	0.483	1.000	0.94	0.70	-	1.26	0.684	1.000
rs2107301	46541837	16	0.99	0.84	-	1.18	0.917	1.000	0.98	0.78	-	1.22	0.847	1.000	1.02	0.69	-	1.51	0.919	1.000
rs2189480	46550095	17	1.19	1.02	-	1.39	0.032	0.817	1.25	1.00	-	1.57	0.051	0.927	1.27	0.93	-	1.73	0.128	0.997
rs2238135	46564457	18	1.06	0.88	-	1.26	0.560	1.000	1.09	0.87	-	1.36	0.438	1.000	0.97	0.61	-	1.55	0.905	1.000
rs2238136	46563980	19	1.05	0.88	-	1.26	0.562	1.000	1.06	0.85	-	1.32	0.615	1.000	1.10	0.71	-	1.71	0.661	1.000
rs2239179	46544033	20	1.01	0.86	-	1.19	0.900	1.000	0.97	0.77	-	1.23	0.812	1.000	1.08	0.81	-	1.45	0.599	1.000
rs2239180	46542313	21	1.01	0.79	-	1.30	0.912	1.000	0.96	0.74	-	1.26	0.770	1.000	2.33	0.84	-	6.45	0.105	0.994
rs2239182	46541678	22	1.06	0.90	-	1.24	0.497	1.000	1.08	0.83	-	1.40	0.575	1.000	1.07	0.83	-	1.39	0.586	1.000
rs2239186	46555677	23	1.15	0.95	-	1.39	0.155	0.999	1.26	1.00	-	1.58	0.046	0.907	0.82	0.47	-	1.43	0.478	1.000
rs2248098	46539623	24	0.96	0.82	-	1.12	0.622	1.000	0.92	0.72	-	1.18	0.535	1.000	0.98	0.75	-	1.27	0.866	1.000
rs2254210	46559981	25	0.86	0.74	-	1.01	0.074	0.975	0.81	0.65	-	1.02	0.068	0.967	0.85	0.62	-	1.17	0.327	1.000
rs2283343	46541045	26	0.99	0.84	-	1.15	0.871	1.000	0.97	0.75	-	1.24	0.788	1.000	1.00	0.77	-	1.30	0.993	1.000
rs2525044	46528523	27	0.96	0.82	-	1.13	0.640	1.000	0.99	0.78	-	1.25	0.907	1.000	0.90	0.67	-	1.21	0.482	1.000
rs3782905	46552434	28	0.90	0.76	-	1.07	0.217	1.000	0.83	0.67	-	1.04	0.105	0.993	1.00	0.69	-	1.45	0.996	0.996
rs3819545	46551273	29	1.12	0.95	-	1.31	0.165	0.999	1.15	0.91	-	1.44	0.251	1.000	1.19	0.88	-	1.60	0.263	1.000
rs3923693	46623896	30	0.92	0.72	-	1.16	0.466	1.000	0.88	0.68	-	1.14	0.329	1.000	1.35	0.55	-	3.34	0.509	1.000
rs4237856	46624317	31	0.96	0.80	-	1.15	0.669	1.000	0.99	0.79	-	1.24	0.950	1.000	0.80	0.50	-	1.27	0.344	1.000
rs4328262	46571915	32	1.10	0.94	-	1.29	0.218	1.000	1.06	0.83	-	1.33	0.654	1.000	1.28	0.96	-	1.71	0.088	0.986
rs4516035	46586093	33	0.91	0.78	-	1.07	0.260	1.000	0.88	0.70	-	1.11	0.276	1.000	0.90	0.66	-	1.21	0.476	1.000
rs4760648	46566932	34	1.04	0.89	-	1.21	0.635	1.000	1.11	0.87	-	1.40	0.396	1.000	0.98	0.74	-	1.29	0.877	1.000
rs4760655	46580398	35	1.01	0.86	-	1.19	0.898	1.000	0.96	0.77	-	1.20	0.722	1.000	1.14	0.82	-	1.57	0.436	1.000
rs4760658	46582753	36	0.88	0.75	-	1.04	0.144	0.998	0.84	0.67	-	1.05	0.125	0.997	0.88	0.62	-	1.25	0.485	1.000
rs7299460	46582535	37	1.11	0.94	-	1.31	0.238	1.000	1.03	0.83	-	1.29	0.775	1.000	1.47	1.03	-	2.09	0.034	0.836
rs7310552	46590126	38	0.91	0.77	-	1.06	0.233	1.000	0.87	0.69	-	1.10	0.246	1.000	0.89	0.66	-	1.21	0.462	1.000
rs731236	46525024	39	1.08	0.92	-	1.27	0.364	1.000	1.03	0.82	-	1.30	0.769	1.000	1.23	0.91	-	1.67	0.178	1.000

rs7970314	46594441	40	1.12	0.93	-	1.34	0.239	1.000	1.13	0.90	-	1.41	0.282	1.000	1.20	0.75	-	1.91	0.444	1.000
rs886441	46549231	41	0.92	0.75	-	1.13	0.409	1.000	0.89	0.70	-	1.12	0.320	1.000	1.03	0.56	-	1.91	0.916	1.000
rs987849	46540943	42	0.96	0.82	-	1.12	0.570	1.000	0.97	0.76	-	1.24	0.817	1.000	0.90	0.68	-	1.19	0.464	1.000
Distal Neoplasia																				
rs10783215	46518165	1	0.98	0.83	-	1.17	0.859	1.000	1.05	0.79	-	1.38	0.743	1.000	0.91	0.68	-	1.22	0.520	1.000
rs10875695	46579304	2	0.89	0.73	-	1.09	0.258	1.000	0.99	0.78	-	1.27	0.948	1.000	0.46	0.25	-	0.83	0.010	0.446
rs11168267	46537809	3	0.97	0.72	-	1.31	0.865	1.000	0.92	0.66	-	1.27	0.600	1.000	2.28	0.72	-	7.23	0.162	1.000
rs11168287	46571681	4	0.92	0.78	-	1.09	0.347	1.000	0.83	0.63	-	1.08	0.165	1.000	0.98	0.74	-	1.30	0.895	1.000
rs11168293	46579983	5	1.07	0.89	-	1.28	0.477	1.000	1.09	0.86	-	1.40	0.476	1.000	1.08	0.74	-	1.57	0.699	1.000
rs11568820	46588812	6	0.92	0.74	-	1.13	0.425	1.000	0.93	0.72	-	1.19	0.558	1.000	0.77	0.41	-	1.42	0.399	1.000
rs11574026	46574513	7	1.03	0.80	-	1.33	0.805	1.000	1.06	0.80	-	1.40	0.673	1.000	0.74	0.25	-	2.21	0.587	1.000
rs11574077	46539194	8	1.02	0.68	-	1.54	0.920	1.000	0.95	0.60	-	1.48	0.807	1.000	3.19	0.64	-	15.86	0.157	0.999
rs11574139	46521822	9	0.91	0.55	-	1.49	0.694	1.000	0.86	0.51	-	1.43	0.555	1.000	NA	NA	-	NA	NA	NA
rs11574143	46521184	10	0.99	0.75	-	1.30	0.939	1.000	0.95	0.70	-	1.29	0.760	1.000	1.47	0.55	-	3.89	0.441	1.000
rs12581281	46581400	11	0.87	0.45	-	1.70	0.687	1.000	0.79	0.39	-	1.59	0.503	1.000	NA	NA	-	NA	NA	NA
rs12721364	46517697	12	0.92	0.72	-	1.18	0.522	1.000	0.84	0.64	-	1.11	0.231	1.000	1.89	0.86	-	4.17	0.114	0.996
rs1540339	46543593	13	1.01	0.85	-	1.21	0.896	1.000	1.04	0.81	-	1.33	0.767	1.000	0.97	0.69	-	1.38	0.876	1.000
rs1544410	46526102	14	1.01	0.85	-	1.21	0.882	1.000	1.03	0.80	-	1.33	0.825	1.000	1.00	0.71	-	1.40	0.992	1.000
rs1989969	46564277	15	0.94	0.79	-	1.12	0.470	1.000	0.90	0.70	-	1.16	0.419	1.000	0.95	0.68	-	1.32	0.750	1.000
rs2107301	46541837	16	1.06	0.88	-	1.28	0.550	1.000	1.09	0.85	-	1.39	0.487	1.000	1.03	0.67	-	1.59	0.888	1.000
rs2189480	46550095	17	1.06	0.89	-	1.27	0.479	1.000	1.09	0.85	-	1.39	0.514	1.000	1.09	0.77	-	1.54	0.628	1.000
rs2238135	46564457	18	1.13	0.93	-	1.37	0.233	1.000	1.25	0.98	-	1.60	0.072	0.972	0.83	0.49	-	1.42	0.493	1.000
rs2238136	46563980	19	1.13	0.93	-	1.37	0.234	1.000	1.25	0.98	-	1.60	0.072	0.972	0.85	0.51	-	1.41	0.526	1.000
rs2239179	46544033	20	1.01	0.85	-	1.21	0.908	1.000	1.08	0.84	-	1.41	0.543	1.000	0.91	0.66	-	1.27	0.584	1.000
rs2239180	46542313	21	1.14	0.87	-	1.49	0.340	1.000	1.15	0.86	-	1.54	0.333	1.000	1.15	0.36	-	3.63	0.812	1.000
rs2239182	46541678	22	1.06	0.89	-	1.26	0.549	1.000	1.00	0.75	-	1.33	0.995	0.995	1.15	0.87	-	1.52	0.331	1.000
rs2239186	46555677	23	0.97	0.78	-	1.20	0.754	1.000	1.00	0.78	-	1.29	0.995	1.000	0.75	0.39	-	1.42	0.371	1.000
rs2248098	46539623	24	0.95	0.80	-	1.12	0.529	1.000	0.93	0.71	-	1.21	0.578	1.000	0.93	0.69	-	1.25	0.640	1.000
rs2254210	46559981	25	0.98	0.82	-	1.17	0.853	1.000	0.97	0.76	-	1.24	0.806	1.000	1.00	0.71	-	1.40	0.979	1.000

rs2283343	46541045	26	0.93	0.79	-	1.11	0.427	1.000	0.89	0.67	-	1.16	0.380	1.000	0.94	0.71	-	1.25	0.681	1.000
rs2525044	46528523	27	1.01	0.84	-	1.20	0.949	1.000	0.95	0.73	-	1.23	0.706	1.000	1.10	0.80	-	1.50	0.565	1.000
rs3782905	46552434	28	0.99	0.82	-	1.19	0.893	1.000	0.97	0.76	-	1.24	0.803	1.000	1.03	0.68	-	1.54	0.902	1.000
rs3819545	46551273	29	1.09	0.92	-	1.30	0.327	1.000	1.18	0.91	-	1.52	0.217	1.000	1.04	0.74	-	1.45	0.820	1.000
rs3923693	46623896	30	0.99	0.76	-	1.28	0.924	1.000	1.00	0.75	-	1.33	0.991	1.000	0.79	0.26	-	2.38	0.676	1.000
rs4237856	46624317	31	0.99	0.81	-	1.20	0.899	1.000	1.03	0.80	-	1.31	0.839	1.000	0.82	0.49	-	1.39	0.465	1.000
rs4328262	46571915	32	1.04	0.87	-	1.23	0.691	1.000	0.99	0.76	-	1.28	0.925	1.000	1.15	0.84	-	1.57	0.396	1.000
rs4516035	46586093	33	1.00	0.84	-	1.19	0.988	1.000	0.99	0.77	-	1.27	0.914	1.000	1.03	0.74	-	1.42	0.867	1.000
rs4760648	46566932	34	0.94	0.79	-	1.11	0.451	1.000	0.94	0.73	-	1.21	0.628	1.000	0.88	0.65	-	1.21	0.434	1.000
rs4760655	46580398	35	1.08	0.90	-	1.29	0.404	1.000	1.09	0.85	-	1.40	0.488	1.000	1.13	0.80	-	1.60	0.496	1.000
rs4760658	46582753	36	1.03	0.86	-	1.23	0.764	1.000	1.05	0.82	-	1.34	0.713	1.000	1.01	0.70	-	1.47	0.950	1.000
rs7299460	46582535	37	0.88	0.73	-	1.06	0.176	1.000	0.95	0.74	-	1.21	0.660	1.000	0.59	0.37	-	0.94	0.025	0.748
rs7310552	46590126	38	1.00	0.84	-	1.19	0.976	1.000	0.98	0.76	-	1.26	0.857	1.000	1.05	0.76	-	1.46	0.771	1.000
rs731236	46525024	39	0.97	0.81	-	1.16	0.723	1.000	0.98	0.76	-	1.26	0.875	1.000	0.92	0.65	-	1.30	0.640	1.000
rs7970314	46594441	40	0.91	0.74	-	1.12	0.367	1.000	0.89	0.70	-	1.14	0.361	1.000	0.90	0.52	-	1.54	0.694	1.000
rs886441	46549231	41	0.82	0.65	-	1.04	0.096	0.991	0.79	0.60	-	1.03	0.077	0.978	0.85	0.42	-	1.74	0.665	1.000
rs987849	46540943	42	0.95	0.80	-	1.13	0.570	1.000	0.90	0.69	-	1.17	0.423	1.000	0.99	0.73	-	1.34	0.940	1.000

¹Locus numbers correspond to locus numbers in heatmaps found in Figure 3.

²*P*-values were adjusted for multiple comparisons using a modification of P_{ACT} for correlated tests developed by Conneely and Boehnke (41).