

Supplementary table 1. Association Between *VDR* SNPs and Colorectal Cancer Overall and Disease-Free Survival Assuming an Additive Mode of Inheritance

SNP ID	Position ^a	Major/Minor allele (MAF)	All CRC			Colon cancer			Rectum cancer		
			HR (95%CI) ^b	<i>P</i>	<i>P</i> _{ACT} ^c	HR (95%CI)	<i>P</i>	<i>P</i> _{ACT} ^c	HR (95%CI) ^b	<i>P</i>	<i>P</i> _{ACT} ^c
Overall survival											
rs11574143	48234917	G/ <u>A</u> (0.089)	0.81 (0.52-1.25)	0.342	0.999	1.14 (0.65-2.02)	0.646	1.000	0.34 (0.16-0.72)	0.005	0.147
rs731236	48238757	T/ <u>C</u> (0.417)	1.48 (1.14-1.91)	0.003	0.083	1.41 (1.03-1.91)	0.031	0.568	1.62 (0.99-2.65)	0.051	0.756
rs1544410	48239835	G/ <u>A</u> (0.421)	1.50 (1.17-1.94)	0.002	0.058	1.44 (1.06-1.96)	0.020	0.426	1.62 (0.99-2.65)	0.051	0.754
rs2239182	48255411	G/ <u>A</u> (0.475)	0.85 (0.67-1.08)	0.182	0.985	0.81 (0.64-1.09)	0.157	0.974	1.01 (0.66-1.55)	0.977	1.000
rs2107301	48255570	<u>C</u> /T (0.230)	1.31 (0.99-1.73)	0.060	0.785	1.35 (0.96-1.90)	0.087	0.884	1.24 (0.73-2.12)	0.431	1.000
rs2239179	48257766	<u>A</u> /G (0.458)	0.77 (0.60-0.98)	0.033	0.605	0.75 (0.55-1.02)	0.062	0.791	0.85 (0.55-1.33)	0.483	1.000
rs12721370	48262073	G/ <u>T</u> (0.092)	0.80 (0.52-1.24)	0.322	0.999	0.70 (0.41-1.19)	0.186	0.985	0.94 (0.43-2.08)	0.877	1.000
rs886441	48262964	T/ <u>C</u> (0.199)	1.10 (0.82-1.47)	0.542	1.000	0.99 (0.70-1.40)	0.962	1.000	1.52 (0.87-2.65)	0.139	0.968
rs2189480	48263828	C/ <u>A</u> (0.373)	0.84 (0.65-1.08)	0.176	0.985	0.88 (0.64-1.21)	0.427	1.000	0.73 (0.46-1.15)	0.178	0.978
rs2239186	48269410	T/ <u>C</u> (0.203)	0.66 (0.50-0.88)	0.005	0.146	0.67 (0.47-0.97)	0.031	0.562	0.70 (0.43-1.15)	0.160	0.972
rs6580642	48270596	<u>C</u> /T (0.160)	0.84 (0.60-1.17)	0.291	0.998	0.87 (0.58-1.32)	0.524	1.000	0.63 (0.34-1.15)	0.134	0.967
rs11168275	48272275	<u>A</u> /G (0.242)	1.13 (0.85-1.50)	0.419	0.999	1.07 (0.77-1.50)	0.683	1.000	1.15 (0.65-2.04)	0.634	1.000
rs10735810	48272895	G/ <u>A</u> (0.393)	1.00 (0.78-1.28)	0.975	1.000	0.86 (0.63-1.17)	0.337	0.999	1.31 (0.82-2.09)	0.265	0.993
rs2254210	48273714	G/ <u>A</u> (0.399)	1.14 (0.90-1.44)	0.291	0.998	1.04 (0.77-1.39)	0.819	1.000	1.36 (0.87-2.13)	0.172	0.977
rs2238136	48277713	G/ <u>A</u> (0.243)	0.88 (0.66-1.18)	0.388	0.999	0.96 (0.65-1.41)	0.832	1.000	0.75 (0.48-1.16)	0.196	0.983
rs2238135	48278190	G/ <u>C</u> (0.221)	0.86 (0.65-1.14)	0.294	0.998	0.91 (0.62-1.33)	0.620	1.000	0.77 (0.50-1.20)	0.251	0.993
rs2853564	48278487	T/ <u>C</u> (0.421)	1.09 (0.86-1.40)	0.478	1.000	1.01 (0.74-1.37)	0.963	1.000	1.31 (0.86-2.00)	0.215	0.986
rs4760648	48280665	<u>C</u> /T (0.408)	1.04 (0.82-1.32)	0.755	1.000	1.01 (0.74-1.38)	0.969	1.000	1.12 (0.75-1.68)	0.575	1.000
rs11168287	48285414	<u>A</u> /G (0.498)	1.09 (0.85-1.39)	0.511	1.000	0.89 (0.65-1.23)	0.478	1.000	1.09 (0.85-1.39)	0.511	1.000
rs4328262	48285648	<u>T</u> /G (0.410)	1.00 (0.78-1.28)	0.991	1.000	0.82 (0.59-1.13)	0.228	0.990	1.35 (0.90-2.01)	0.147	0.965
rs11168293	48293716	G/ <u>T</u> (0.324)	1.04 (0.80-1.34)	0.781	1.000	0.86 (0.62-1.19)	0.361	0.998	1.50 (0.95-2.36)	0.083	0.883
rs4760655	48294131	<u>A</u> /G (0.351)	1.08 (0.84-1.40)	0.534	1.000	0.91 (0.65-1.26)	0.567	1.000	1.44 (0.96-2.17)	0.076	0.863

rs7136534	48294626	<u>C</u> /T (0.282)	0.94 (0.72-1.24)	0.668	1.000	1.00 (0.70-1.42)	0.989	1.000	0.95 (0.61-1.49)	0.837	1.000
rs4516035	48299826	T/ <u>C</u> (0.431)	1.06 (0.83-1.36)	0.620	1.000	0.88 (0.65-1.21)	0.440	1.000	1.65 (1.06-2.57)	0.026	0.527
Disease-free survival											
rs11574143	48234917	G/ <u>A</u> (0.089)	0.98 (0.66-1.45)	0.913	1.000	1.05 (0.64-1.73)	0.836	1.000	0.69 (0.34-1.39)	0.296	0.998
rs731236	48238757	T/ <u>C</u> (0.417)	1.34 (1.07-1.69)	0.012	0.313	1.24 (0.93-1.65)	0.143	0.959	1.56 (1.02-2.38)	0.041	0.668
rs1544410	48239835	G/ <u>A</u> (0.421)	1.37 (1.09-1.73)	0.007	0.204	1.28 (0.96-1.70)	0.091	0.909	1.56 (1.02-2.38)	0.041	0.666
rs2239182	48255411	G/ <u>A</u> (0.475)	0.83 (0.67-1.04)	0.100	0.923	0.79 (0.60-1.04)	0.097	0.915	0.95 (0.65-1.40)	0.809	1.000
rs2107301	48255570	<u>C</u> /T (0.230)	1.10 (0.84-1.43)	0.496	1.000	1.22 (0.89-1.68)	0.225	0.991	0.94 (0.58-1.54)	0.805	1.000
rs2239179	48257766	<u>A</u> /G (0.458)	0.78 (0.62-0.98)	0.031	0.581	0.74 (0.56-0.99)	0.043	0.699	1.01 (0.67-1.53)	0.957	1.000
rs12721370	48262073	G/ <u>T</u> (0.092)	0.87 (0.59-1.28)	0.484	1.000	0.65 (0.41-1.04)	0.072	0.861	1.40 (0.68-2.89)	0.364	1.000
rs886441	48262964	T/ <u>C</u> (0.199)	1.02 (0.78-1.33)	0.913	1.000	0.93 (0.67-1.29)	0.647	1.000	1.36 (0.84-2.22)	0.212	0.990
rs2189480	48263828	C/ <u>A</u> (0.373)	0.87 (0.69-1.10)	0.238	0.996	0.96 (0.72-1.27)	0.757	1.000	0.75 (0.49-1.13)	0.168	0.980
rs2239186	48269410	T/ <u>C</u> (0.203)	0.73 (0.56-0.95)	0.021	0.462	0.83 (0.59-1.16)	0.275	0.997	0.55 (0.34-0.90)	0.017	0.394
rs6580642	48270596	<u>C</u> /T (0.160)	1.03 (0.73-1.45)	0.860	1.000	1.07 (0.69-1.67)	0.772	1.000	0.85 (0.49-1.47)	0.552	1.000
rs11168275	48272275	<u>A</u> /G (0.242)	1.04 (0.81-1.34)	0.773	1.000	1.04 (0.77-1.42)	0.787	1.000	0.95 (0.56-1.59)	0.834	1.000
rs10735810	48272895	G/ <u>A</u> (0.393)	1.04 (0.83-1.31)	0.721	1.000	0.87 (0.66-1.16)	0.353	0.999	1.55 (1.03-2.35)	0.038	0.651
rs2254210	48273714	G/ <u>A</u> (0.399)	1.07 (0.86-1.33)	0.525	1.000	1.00 (0.77-1.30)	0.994	1.000	1.22 (0.83-1.80)	0.308	0.998
rs2238136	48277713	G/ <u>A</u> (0.243)	0.91 (0.70-1.18)	0.479	1.000	0.99 (0.70-1.40)	0.939	1.000	0.86 (0.57-1.30)	0.474	1.000
rs2238135	48278190	G/ <u>C</u> (0.221)	0.90 (0.69-1.16)	0.405	0.999	0.97 (0.69-1.38)	0.876	1.000	0.85 (0.56-1.30)	0.453	1.000
rs2853564	48278487	T/ <u>C</u> (0.421)	1.10 (0.88-1.37)	0.426	0.999	1.03 (0.78-1.36)	0.837	1.000	1.18 (0.80-1.73)	0.405	1.000
rs4760648	48280665	<u>C</u> /T (0.408)	1.07 (0.86-1.33)	0.568	1.000	1.05 (0.79-1.40)	0.720	1.000	1.10 (0.77-1.57)	0.615	1.000
rs11168287	48285414	<u>A</u> /G (0.498)	1.14 (0.91-1.43)	0.265	0.997	0.91 (0.68-1.21)	0.508	1.000	1.78 (1.18-2.67)	0.006	0.167
rs4328262	48285648	<u>T</u> /G (0.410)	0.98 (0.78-1.24)	0.881	1.000	0.79 (0.58-1.06)	0.111	0.934	1.41 (0.95-2.08)	0.084	0.874
rs11168293	48293716	G/ <u>T</u> (0.324)	1.07 (0.85-1.36)	0.553	1.000	0.85 (0.63-1.15)	0.297	0.997	1.51 (0.99-2.31)	0.057	0.760
rs4760655	48294131	<u>A</u> /G (0.351)	1.07 (0.85-1.36)	0.556	1.000	0.92 (0.68-1.23)	0.560	1.000	1.36 (0.92-2.03)	0.126	0.952
rs7136534	48294626	<u>C</u> /T (0.282)	1.01 (0.79-1.29)	0.939	1.000	1.03 (0.74-1.42)	0.881	1.000	0.98 (0.66-1.45)	0.924	1.000

rs4516035	48299826	T/ <u>C</u> (0.431)	1.10 (0.87-1.38)	0.433	1.000	0.87 (0.65-1.17)	0.364	0.999	1.58 (1.05-2.38)	0.027	0.544
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Abbreviations: CRC, colorectal cancer; HR, hazard ratio; MAF minor allele frequency.

^a SNP locations were mapped according to the NCBI build 36 coordinates.

^b Hazard ratio calculated in reference to the allele underlined. Cox proportional hazard model adjusted for sex, age at diagnosis, stage at diagnosis, race, reported screening procedure, marital status, MSI status, and BRAF mutation status where appropriate.

^c *P*-values were adjusted for multiple comparisons using a modification of P_{ACT} for correlated tests developed by Conneely and Boehnke(Conneely & Boehnke, 2007).

Supplementary table 2. Association Between *CASR* SNPs and Colorectal Cancer Overall and Disease-Free Survival Assuming an Additive Mode of Inheritance

SNP ID	Position ^a	Major/Minor allele (MAF)	All CRC			Colon cancer			Rectum cancer		
			HR (95%CI) ^b	<i>P</i>	<i>P</i> _{ACT} ^c	HR (95%CI) ^b	<i>P</i>	<i>P</i> _{ACT} ^c	HR (95%CI) ^b	<i>P</i>	<i>P</i> _{ACT} ^c
Overall survival											
rs34028592	121902021	<u>A</u> /G (0.185)	0.89 (0.66-1.20)	0.439	0.999	0.97 (0.67-1.41)	0.859	1.000	0.71 (0.40-1.23)	0.219	0.986
rs6762782	121905657	G/ <u>A</u> (0.387)	1.03 (0.80-1.32)	0.814	1.000	0.83 (0.61-1.12)	0.220	0.990	1.51 (0.98-2.34)	0.062	0.809
rs1814740	121918491	<u>A</u> /G (0.489)	1.18 (0.93-1.50)	0.168	0.983	1.27 (0.93-1.72)	0.130	0.958	1.05 (0.71-1.56)	0.797	1.000
rs35274320	121937943	G/ <u>A</u> (0.160)	1.29 (0.92-1.82)	0.146	0.972	1.17 (0.77-1.78)	0.460	1.000	1.67 (0.85-3.25)	0.135	0.966
rs1354162	121954077	<u>C</u> /A (0.091)	0.57 (0.33-0.98)	0.041	0.668	0.38 (0.20-0.71)	0.003	0.081	1.29 (0.59-2.83)	0.530	1.000
rs7637874	121966952	<u>C</u> /T (0.239)	0.87 (0.65-1.16)	0.342	0.999	0.78 (0.54-1.13)	0.189	0.984	1.07 (0.67-1.72)	0.766	1.000
rs34345120	121968267	<u>C</u> /T (0.055)	1.19 (0.74-1.91)	0.466	1.000	1.37 (0.79-2.39)	0.262	0.995	0.84 (0.33-2.11)	0.703	1.000
rs1463890	121969937	T/ <u>C</u> (0.140)	0.92 (0.66-1.27)	0.596	1.000	0.79 (0.53-1.16)	0.220	0.989	1.19 (0.63-2.22)	0.593	1.000
rs7647446	121970020	G/ <u>A</u> (0.185)	1.11 (0.82-1.49)	0.510	1.000	1.05 (0.72-1.52)	0.807	1.000	1.30 (0.75-2.23)	0.349	0.999
rs937625	121971512	<u>T</u> /G (0.085)	1.01 (0.66-1.56)	0.948	1.000	1.20 (0.70-2.05)	0.508	1.000	0.88 (0.42-1.87)	0.741	1.000
rs10222633	121976926	G/ <u>A</u> (0.492)	1.22 (0.96-1.56)	0.110	0.933	1.41 (1.04-1.91)	0.028	0.540	0.80 (0.50-1.28)	0.354	0.998
rs10934578	121977282	G/ <u>T</u> (0.334)	0.98 (0.77-1.26)	0.879	1.000	0.80 (0.50-1.28)	0.354	0.999	1.11 (0.72-1.73)	0.636	1.000
rs3804592	121979229	G/ <u>A</u> (0.133)	0.84 (0.56-1.26)	0.401	0.999	0.80 (0.50-1.29)	0.358	0.999	1.07 (0.49-2.36)	0.861	1.000
rs17250717	121980186	G/ <u>T</u> (0.095)	1.18 (0.74-1.90)	0.488	1.000	1.64 (0.86-3.12)	0.133	0.958	0.61 (0.29-1.30)	0.200	0.983
rs1801725	122003757	G/ <u>T</u> (0.140)	1.23 (0.86-1.75)	0.256	0.997	1.12 (0.71-1.75)	0.635	1.000	1.57 (0.86-2.89)	0.145	0.970
rs1042636	122003769	<u>A</u> /G (0.086)	1.46 (1.02-2.10)	0.039	0.660	1.71 (1.10-2.68)	0.018	0.416	1.14 (0.60-2.17)	0.682	1.000
rs1802757	122005131	<u>C</u> /T (0.145)	1.26 (0.90-1.76)	0.188	0.985	1.17 (0.75-1.83)	0.485	1.000	1.50 (0.87-2.60)	0.146	0.968
Disease-free survival											
rs34028592	121902021	<u>A</u> /G (0.185)	0.80 (0.59-1.09)	0.155	0.977	0.96 (0.67-1.38)	0.821	1.000	0.69 (0.42-1.14)	0.145	0.968
rs6762782	121905657	G/ <u>A</u> (0.387)	1.03 (0.82- 1.30)	0.792	1.000	0.87 (0.65-1.17)	0.359	0.999	1.32 (0.90-1.94)	0.152	0.973
rs1814740	121918491	<u>A</u> /G (0.489)	1.11 (0.90-1.39)	0.334	0.999	1.19 (0.90-1.58)	0.221	0.992	1.00 (0.70-1.41)	0.979	1.000
rs35274320	121937943	G/ <u>A</u> (0.160)	0.78 (0.46-1.33)	0.367	0.999	0.77 (0.37-1.59)	0.483	1.000	0.89 (0.39-2.05)	0.790	1.000

rs1354162	121954077	<u>C</u> /A (0.091)	0.75 (0.48-1.17)	0.204	0.993	0.53 (0.28-0.97)	0.041	0.691	1.30 (0.65-2.62)	0.462	1.000
rs7637874	121966952	<u>C</u> /T (0.239)	0.85 (0.66-1.11)	0.229	0.995	0.77 (0.55-1.08)	0.127	0.946	1.07 (0.71-1.60)	0.763	1.000
rs34345120	121968267	<u>C</u> /T (0.055)	1.32 (0.88-1.98)	0.177	0.987	1.49 (0.92-2.41)	0.108	0.933	1.04 (0.46-2.33)	0.929	1.000
rs1463890	121969937	T/ <u>C</u> (0.140)	0.80 (0.60-1.06)	0.118	0.947	0.77 (0.54-1.10)	0.146	0.958	0.83 (0.50-1.38)	0.467	1.000
rs7647446	121970020	G/ <u>A</u> (0.185)	1.16 (0.87-1.55)	0.306	0.999	1.05 (0.73-1.51)	0.785	1.000	1.36 (0.83-2.22)	0.226	0.992
rs937625	121971512	<u>T</u> /G (0.085)	1.18 (0.80-1.73)	0.402	0.999	1.13 (0.68-1.88)	0.645	1.000	1.37 (0.76-2.44)	0.293	0.998
rs10222633	121976926	G/ <u>A</u> (0.492)	0.72 (0.47-1.10)	0.138	0.968	0.88 (0.51-1.51)	0.640	1.000	0.46 (0.21-0.99)	0.046	0.699
rs10934578	121977282	G/ <u>T</u> (0.334)	1.70 (1.06-2.73)	0.029	0.554	1.62 (0.88-2.99)	0.121	0.946	1.66 (0.79-3.47)	0.182	0.981
rs3804592	121979229	G/ <u>A</u> (0.133)	0.86 (0.60-1.23)	0.398	1.000	0.79 (0.52-1.21)	0.276	0.996	1.09 (0.54-2.20)	0.819	1.000
rs17250717	121980186	G/ <u>T</u> (0.095)	1.24 (0.81-1.89)	0.327	0.999	1.66 (0.92-2.98)	0.092	0.910	0.75 (0.39-1.42)	0.369	0.999
rs1801725	122003757	G/ <u>T</u> (0.140)	1.08 (0.79-1.47)	0.628	1.000	1.03 (0.69-1.53)	0.897	1.000	1.25 (0.75-2.08)	0.396	1.000
rs1042636	122003769	<u>A</u> /G (0.086)	1.32 (0.95-1.83)	0.095	0.918	1.39 (0.91-2.12)	0.123	0.947	1.15 (0.67-1.96)	0.618	1.000
rs1802757	122005131	<u>C</u> /T (0.145)	1.19 (0.87-1.62)	0.282	0.998	1.14 (0.75-1.72)	0.535	1.000	1.41 (0.86-2.32)	0.171	0.979

Abbreviations: CRC, colorectal cancer; HR, hazard ratio, MAF, minor allele frequency.

^a SNP locations were mapped according to the NCBI build 36 coordinates.

^b Hazard ratio calculated in reference to the allele underlined. Cox proportional hazard model adjusted for sex, age at diagnosis, stage at diagnosis, race, reported screening procedure, marital status, MSI status, and BRAF mutation status where appropriate.

^c *P*-values were adjusted for multiple comparisons using a modification of P_{ACT} for correlated tests developed by Conneely and Boehnke (Conneely & Boehnke, 2007).

Supplementary table 3. Association Between Selected Genetic Variations in *VDR* and *CASR* and Colorectal Cancer Overall Survival Stratified by Dietary Vitamin D and Calcium Intakes

Variant	Alleles ^{a/} Haplotypes	Dietary vitamin D HR (95% CI) ^b		<i>P</i> _{int}	Dietary calcium HR (95% CI) ^b		<i>P</i> _{int} ^d
		<Median ^c	≥Median ^c		<Median ^c	≥Median ^c	
No. of deaths/At risk		63/214	71/217		65/218	69/213	
<i>VDR</i>							
rs731236 (<i>TaqI</i>)	T/C	1.40 (0.95-2.05)	1.38 (0.96-1.98)	0.976	1.03 (0.99-1.06)	1.30 (0.92-1.82)	0.386
rs1544410 (<i>BsmI</i>)	G/A	1.46 (0.99-2.13)	1.38 (0.96-1.98)	0.880	1.63 (1.10-2.40)	1.31 (0.93-1.84)	0.336
rs10735810 (<i>FokI</i>)	G/A	1.43 (0.95-2.13)	0.82 (0.59-1.14)	0.052	1.35 (0.91-2.01)	0.78 (0.56-1.10)	0.047
Linkage block 1 ^e	GTG	1.49 (1.03-2.16)	1.21 (0.85-1.73)	0.138	1.57 (1.09-2.26)	1.18 (0.84-1.68)	0.123
	GCA	0.72 (0.49-1.05)	0.73 (0.50-1.05)	0.406	0.64 (0.43-0.94)	0.77 (0.55-1.09)	0.290
	ATG	0.86 (0.42-1.77)	1.43 (0.80-2.55)	0.300	0.97 (0.49-1.92)	1.45 (0.80-2.61)	0.280
Linkage block 2 ^f	CTC	0.76 (0.52-1.11)	1.04 (0.74-1.48)	0.207	0.85 (0.59-1.23)	1.00 (0.70-1.41)	0.749
	ACC	1.59 (1.00-2.51)	1.30 (0.86-1.95)	0.342	1.69 (1.06-2.70)	1.10 (0.71-1.73)	0.313
	ATC	1.04 (0.62-1.72)	0.87 (0.56-1.36)	0.925	0.83 (0.50-1.39)	0.94 (0.60-1.46)	0.636
	CTT	0.85 (0.53-1.39)	0.74 (0.45-1.20)	0.438	0.84 (0.53-1.35)	0.89 (0.55-1.45)	0.864
<i>CASR</i>							
rs1801725 (A986S)	G/T	1.36 (0.81-2.30)	1.30 (0.79-2.14)	0.995	1.13 (0.70-1.85)	1.41 (0.84-2.39)	0.619
rs1042636 (R990G)	A/G	1.93 (1.16-3.22)	1.20 (0.71-2.03)	0.216	2.21 (1.37-3.56)	1.01 (0.57-1.81)	0.040
Linkage block 2 ^g	GGCC	1.65 (1.15-2.38)	1.27 (0.88-1.82)	0.104	1.37 (0.95-1.98)	1.46 (1.02-2.10)	0.705
	AGCT	0.76 (0.48-1.22)	0.90 (0.62-1.31)	0.099	0.78 (0.50-1.21)	0.88 (0.59-1.33)	0.371
	AGCC	1.06 (0.68-1.64)	1.15 (0.76-1.77)	0.809	1.06 (0.70-1.61)	1.24 (0.80-1.94)	0.957
	GACC	0.70 (0.40-1.22)	0.84 (0.54-1.33)	0.905	0.87 (0.51-1.49)	0.71 (0.44-1.13)	0.370
	AGAC	0.55 (0.25-1.22)	0.58 (0.27-1.25)	0.670	0.67 (0.30-1.48)	0.51 (0.24-1.09)	0.801
Linkage block 4 ^h	AGGGGAC	0.63 (0.41-0.96)	0.82 (0.56-1.21)	0.456	0.73 (0.49-1.09)	0.73 (0.49-1.10)	0.753
	AGGGGAT	1.44 (0.89-2.34)	1.11 (0.67-1.85)	0.465	1.02 (0.61-1.71)	1.44 (0.89-2.33)	0.892

GTGGTAC	0.74 (0.43-1.26)	0.77 (0.46-1.27)	0.628	0.88 (0.54-1.45)	0.70 (0.41-1.20)	0.895
GGAGGAC	1.72 (0.96-3.10)	0.83 (0.46-1.48)	0.131	1.31 (0.70-2.47)	0.97 (0.55-1.71)	0.793
GTGTGAC	0.62 (0.28-1.34)	1.11 (0.59-2.07)	0.100	0.51 (0.23-1.11)	1.20 (0.64-2.25)	0.208
GTGGGGC	1.96 (1.16-3.29)	1.20 (0.71-2.05)	0.058	2.21 (1.36-3.58)	1.04 (0.58-1.87)	0.017
GGGGGAC	1.18 (0.45-3.01)	2.58 (1.36-4.84)	0.163	1.22 (0.51-2.90)	2.79 (1.46-5.31)	0.181

^a Two variants at the locus presented as: major allele/minor allele. Hazard ratio calculated in reference to the allele underlined.

^b Cox proportional hazard model adjusted for age at diagnosis, sex, race, stage at diagnosis, reported screening procedure, marital status, and MSI status where appropriate.

^c Median dietary intakes are 5.6 µg/d for vitamin D and 862.1 mg/d for calcium.

^d *P* for interaction is computed with Wald method testing significance of multiplicative interaction term between genetic variants and respective stratified variable; not adjusted for multiple comparisons.

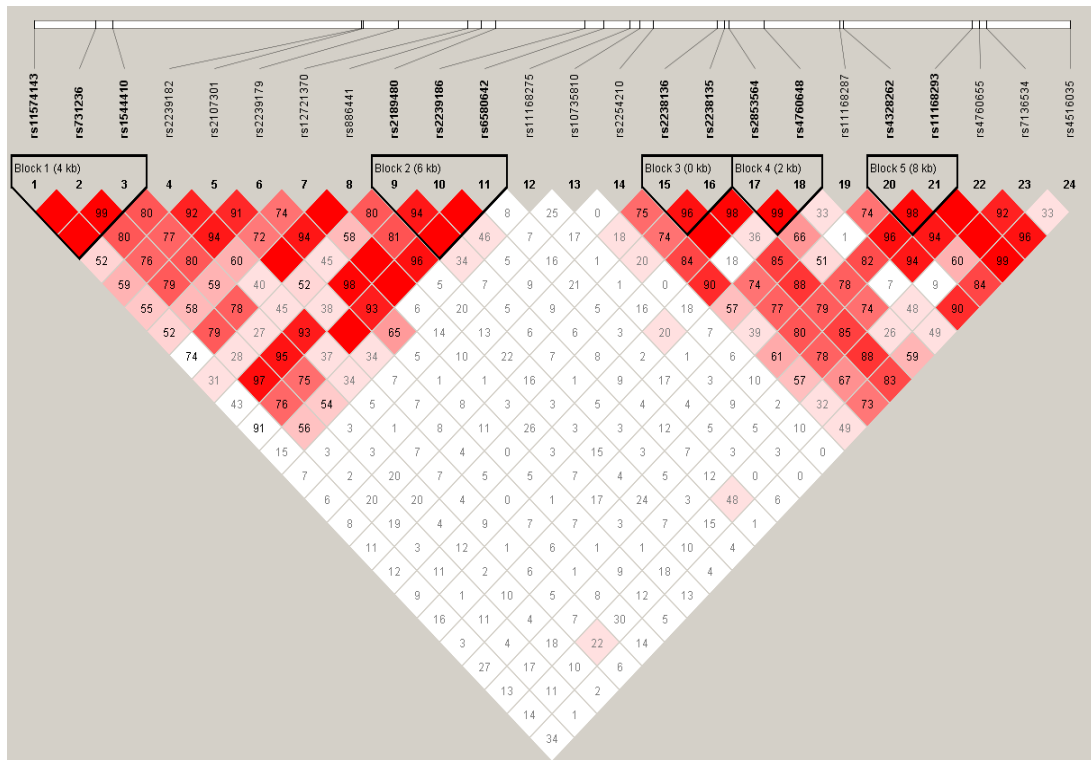
^e *VDR*, linkage block 1 includes rs11574143, rs731236, and rs1544410.

^f *VDR*, linkage block 2 includes rs2189480, rs2239186, and rs6580642.

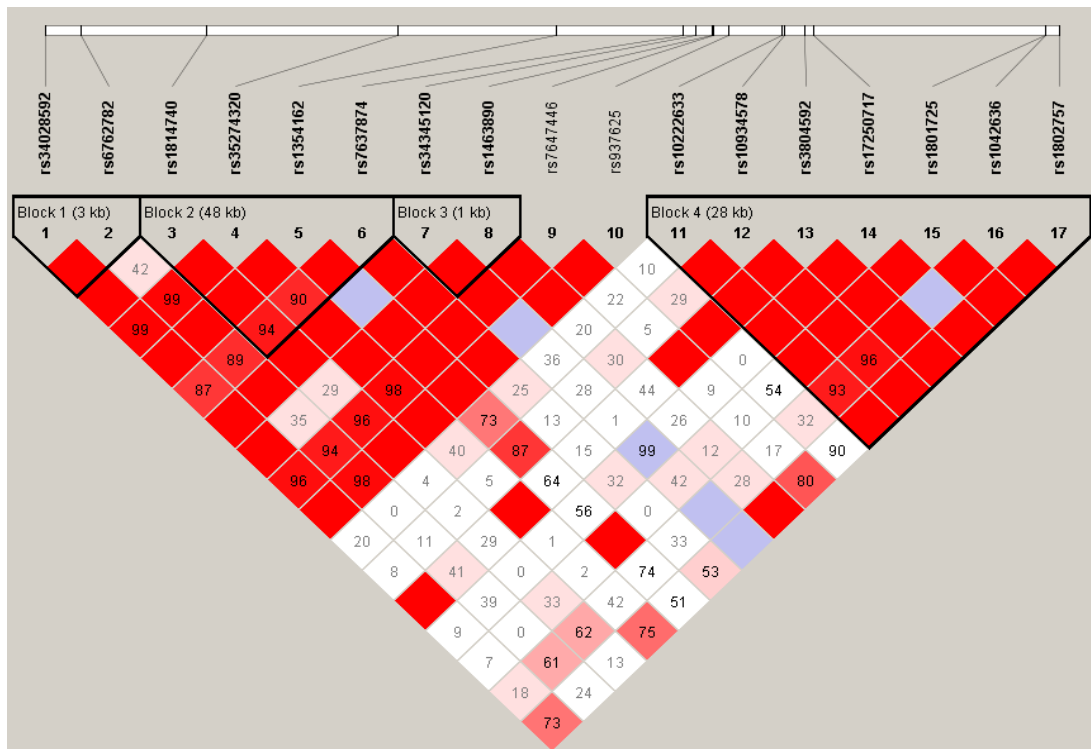
^g *CASR*, linkage block 2 includes rs1814740, rs35274320, rs1354162, and rs7637874.

^h *CASR*, linkage block 4 includes rs10222633, rs10934578, rs3804592, rs17250717, rs1801725, rs1042636, and rs1802757.

A.



B.



Supplementary figure 1. The linkage disequilibrium (LD) plot of A. *VDR* and B. *CASR* genes. LD strength between the SNPs was indicated by the standard Haploview color scheme based on both D' and LOD values ($D' < 1$ and $\text{LOD} < 2$ in white; $D' = 1$ and $\text{LOD} < 2$ in blue; $D' < 1$ and $\text{LOD} \geq 2$ in shades of pink/red; $D' = 1$ and $\text{LOD} \geq 2$ in bright red). Numbers in squares are D' ($\times 100$), but those with $D' = 1$ are not shown. The black triangle marks the single haplotype block within each gene.