

Supplemental Table 1. Description of growth factor-related genes

Gene	Chromosome		Major/Minor		MAF		FDR HWE P	
	Location	dbSNP ID	Coordinate	Allele	NHW	HISP/NA	NHW	HISP/NA
<i>EGF</i>	4q25	rs4444903	110834110	A/G	0.39	0.54	0.96	0.62
<i>ERBB2</i>	17q21.1	rs1136201	37879588	A/G	0.23	0.15	0.98	0.95
		rs1810132	37866005	T/C	0.31	0.40	1.00	0.91
		rs4252596	37855834	C/A	0.13	0.04	0.99	0.01
<i>FGF1</i>	5q31	rs34001	141973599	G/T	0.43	0.38	0.96	0.83
		rs152524	141992389	A/G	0.44	0.27	0.89	0.68
		rs9324889	142048269	C/T	0.29	0.28	0.96	0.93
		rs250092	141978243	C/T	0.15	0.06	0.96	0.96
		rs34021	142002342	G/A	0.35	0.25	0.97	0.61
		rs152528	142017860	G/A	0.38	0.30	1.00	0.26
		rs1596776	142033695	A/C	0.49	0.39	0.97	0.53
		rs13179022	141971281	G/A	0.47	0.39	0.89	0.67
		rs4912868	141972713	T/C	0.30	0.39	0.96	0.55
		rs34016	141998966	G/A	0.14	0.24	0.97	0.99
		rs34019	142000545	G/A	0.29	0.55	0.98	0.46
		rs13188142	142002232	T/A	0.36	0.19	0.97	0.80
		rs6884797	142008657	C/A	0.13	0.12	0.94	0.74
		rs249921	142010380	T/C	0.24	0.29	0.96	0.86
		rs1609763	142018424	C/A	0.28	0.33	0.97	0.36
		rs17099156	142019596	G/A	0.18	0.23	0.96	0.98
		rs6893408	142022777	G/A	0.15	0.16	0.96	0.14
		rs2070715	142024256	G/A	0.41	0.50	0.96	0.72
		rs2052006	142025022	T/C	0.28	0.15	0.96	0.64
		rs4912876	142073939	A/G	0.34	0.29	0.96	0.99
rs6580256	142076661	C/T	0.11	0.19	0.96	0.43		
<i>FGF2</i>	4q26-q27	rs7700205	123798183	C/T	0.17	0.08	0.96	0.76
		rs17408757	123811472	T/C	0.14	0.07	0.96	0.68
		rs308395	123746942	C/G	0.14	0.27	0.99	0.71
		rs2034461	123784295	C/T	0.17	0.16	0.93	0.93
		rs1476214	123813009	G/A	0.39	0.33	0.96	0.55
		rs308420	123767943	G/A	0.09	0.19	0.96	0.68
		rs308435	123772018	C/A	0.15	0.12	0.96	0.25
		rs167428	123773439	T/C	0.27	0.28	0.99	0.88
		rs11938826	123772614	C/G	0.17	0.27	0.96	0.26
		rs308441	123774065	C/T	0.19	0.26	0.97	0.73
		rs1960669	123782568	G/T	0.14	0.05	0.97	0.25
		rs308379	123782896	A/T	0.40	0.44	0.96	0.68
		rs308382	123783194	A/G	0.17	0.12	0.99	0.43
		rs3789138	123784721	G/A	0.43	0.47	0.89	0.68
		rs6534365	123785448	C/T	0.35	0.24	0.96	0.93
rs3804158	123814900	A/G	0.45	0.48	0.98	0.73		

<i>FGFR2</i>	10q26	rs2981582	123352317	C/T	0.40	0.40	0.86	0.97
<i>PDGFB</i>	22q13.1	rs4990919	39622940	C/T	0.33	0.32	0.96	1.00
		rs9622978	39625068	G/T	0.43	0.35	0.96	0.54
		rs4821877	39629096	T/C	0.54	0.45	0.95	0.62
		rs11704525	39629329	C/A	0.48	0.31	0.96	0.32
		rs2247128	39630287	G/A	0.34	0.19	0.86	0.07
		rs6001512	39632523	G/A	0.08	0.04	0.13	0.47
		rs5757573	39633622	T/C	0.38	0.21	0.96	0.01
		rs5750781	39634434	C/A	0.30	0.15	0.97	0.08
		rs2857402	39636586	C/G	0.29	0.15	0.98	0.02
		<i>NRG2</i>	5q23-q33	rs2431384	139292686	A/G	0.14	0.14
rs9686629	139329066			A/G	0.10	0.11	0.96	0.59
rs265159	139390752			A/G	0.21	0.27	0.96	0.91
rs3863190	139270620			A/G	0.16	0.13	0.96	0.36
rs6895139	139295821			G/A	0.08	0.07	0.96	0.67
rs265155	139386615			G/A	0.21	0.17	0.96	0.98
rs11738832	139294677			A/G	0.54	0.38	1.00	0.69
rs2916092	139414752			A/G	0.26	0.34	0.96	0.80
rs4912894	139236962			T/C	0.53	0.36	0.97	0.78
rs1800954	139245086			T/C	0.12	0.11	0.96	0.45
rs11745110	139246990			G/A	0.09	0.11	0.96	0.82
rs11748246	139260836			G/C	0.20	0.13	0.96	0.91
rs1422187	139276748			T/C	0.24	0.19	0.96	0.61
rs4912936	139293166			G/A	0.22	0.15	0.98	0.74
rs197197	139348915			T/G	0.37	0.50	0.92	0.87
rs11746363	139353857			G/A	0.19	0.23	0.86	0.48
rs265151	139378986			C/A	0.17	0.16	0.96	0.36
rs11167875	139384602			C/T	0.52	0.39	0.96	0.58
rs13173983	139410510			T/C	0.27	0.18	1.00	0.01
rs6580353	139410687			C/T	0.24	0.32	0.68	0.67
rs7707550	139410945	A/T	0.44	0.52	0.96	0.30		
rs2436389	139416265	T/G	0.37	0.21	0.96	0.07		

Supplemental Table 2. Associations between growth factor genes and family history of breast cancer in first-degree relatives

	No Family History		Family History				Interaction p-value			
	Controls	Cases	OR <sup>1</sup>	(95% CI)	Controls	Cases	OR	(95% CI)	raw	adjusted
	N	N			N	N				
<i>FGF1</i> (rs9324889)										
CC	1847	1486	1.00		204	311	1.00		0.03	0.44
CT	1457	1195	1.01	(0.91, 1.12)	203	227	0.73	(0.57, 0.95)		
TT	287	238	1.03	(0.85, 1.24)	36	39	0.72	(0.44, 1.18)		
<i>FGF2</i> (rs308379)										
AA	1192	1032	1.00		173	190	1.00		0.02	0.24
AT	1719	1394	0.95	(0.85, 1.06)	202	297	1.37	(1.04, 1.80)		
TT	678	493	0.87	(0.75, 1.00)	68	90	1.24	(0.85, 1.82)		
<i>FGF2</i> (rs308382)										
AA	2710	2186	1.00		298	431	1.00		0.01	0.09
AG/GG	880	733	1.02	(0.91, 1.14)	145	146	0.68	(0.52, 0.90)		
<i>NRG2</i> (rs265155)										
GG/GA	3468	2810	1.00		430	536	1.00		0.02	0.44
AA	121	107	1.10	(0.84, 1.43)	13	40	2.49	(1.31, 4.74)		

<sup>1</sup>Odds Ratios (OR) and 95% Confidence Intervals (CI) adjusted for age, study center, BMI during referent year, parity and genetic ancestry