

Supplementary Table 4: *CDHI* gene (NM_004360) variants identified

ID	Ethnicity	Gender	Personal Cancer History	Breast Cancer	Gastric Cancer	Classification	c.DNA	Protein
415532	caucasian	F	yes	no	yes	Pathogenic	c.-124_c.*2042del	
432240	ashkenazi jewish	F	no	no	no	Pathogenic	c.-124_c.*2042del	
298749	caucasian	F	yes	no	no	Pathogenic	c.-124_c.163del	
432401	unknown	F	yes	yes	no	Pathogenic	c.-124_c.163del	
277096	caucasian	F	yes	yes	no	Pathogenic	c.-124_c.164-1del	
444638	hispanic	M	yes	no	no	Pathogenic	c.2T>C	p.M1?
291207	caucasian	F	no	no	no	Pathogenic	c.60G>A	(T) p.W20*
289070	caucasian	F	yes	yes	no	Pathogenic	c.76G>T	(T) p.E26*
486370	caucasian	F	no	no	no	Pathogenic	c.124_126delCCCinsT	(T) p.P42Sfs*16
288929	caucasian	F	yes	yes	no	Pathogenic	c.124_126delCCCinsT	(T) p.P42Sfs*16
Yale-12	caucasian	F	yes	no	yes	Pathogenic	c.187C>T	(T) p.R63*
259996	caucasian	F	yes	yes	no	Pathogenic	c.202delT	(T) p.Y68Ifs*15
318795	caucasian	F	yes	yes	no	Pathogenic	c.220C>T	(T) p.R74*
468634	unknown	F	yes	yes	no	Pathogenic	c.220C>T	(T) p.R74*
Yale-4749	caucasian	M	yes	no	yes	Pathogenic	c.220C>T	(T) p.R74*
423389	hispanic	M	yes	no	yes	Pathogenic	c.308G>A	(T) p.W103*
Yale-1018	african american	M	no	no	no	Pathogenic	c.376_382dupCCGCCCC	(T) p.H128Pfs*42
490925	caucasian	F	no	no	no	Pathogenic	c.382delC	(T) p.H128Ifs*87
350350	caucasian	F	yes	yes	no	Pathogenic	c.521dupA	(T) p.N174Kfs*25
146758	caucasian	M	yes	no	yes	Pathogenic	c.521dupA	(T) p.N174Kfs*25

Yale-905	caucasian	F	yes	no	yes	Pathogenic	c.521dupA	(T) p.N174Kfs*25
414884	caucasian	F	yes	yes	no	Pathogenic	c.529C>T	(T) p.Q177*
464388	unknown	F	yes	yes	no	Pathogenic	c.594_595insT	(T) p.T199Yfs*10
412903	caucasian	F	yes	no	no	Pathogenic	c.603delT	(T) p.V202Lfs*13
468710	caucasian	M	no	no	no	Pathogenic	c.603delT	(T) p.V202Lfs*13
303122	caucasian	F	no	no	no	Pathogenic	c.715G>A	(M) p.G239R
305977	caucasian	F	yes	yes	no	Pathogenic	c.715G>A	(M) p.G239R
378992	hispanic	F	yes	yes	no	Pathogenic	c.715G>A	(M) p.G239R
408846	unknown	F	no	no	no	Pathogenic	c.715G>A	(M) p.G239R
432971	caucasian	F	yes	yes	no	Pathogenic	c.715G>A	(M) p.G239R
Yale-6295	african american	F	yes	no	yes	Pathogenic	c.939delC	(T) p.D313fs
Yale-3374	caucasian	F	yes	yes	yes	Pathogenic	c.1003C>T	(T) p.R335*
177280	caucasian	F	yes	no	yes	Pathogenic	c.1003C>T	(T) p.R335*
343892	african american	F	yes	yes	no	Pathogenic	c.1003C>T	(T) p.R335*
320475	caucasian	F	no	no	no	VLP	c.1008G>A	(M) p.E336E
475165	caucasian	F	yes	yes	no	VLP	c.1008G>T	(M) p.E336D
269557	caucasian	F	yes	yes	no	Pathogenic	c.1009_1010delAG	(T) p.S337Ffs*12
286978	hispanic	F	yes	no	yes	Pathogenic	c.1009_1010delAG	(T) p.S337Ffs*12
326920	caucasian	F	yes	yes	no	VLP	c.1137+1delG	(S)
360812	african american	F	no	no	no	Pathogenic	c.1137+1G>A	(S)
271298	other	F	yes	yes	no	VLP	c.1137+2T>C	(S)
483450	caucasian	F	yes	no	yes	Pathogenic	c.1137G>A	(S) p.T379T
277949	caucasian	F	yes	no	no	Pathogenic	c.1137G>A	(S) p.T379T
344629	caucasian	F	yes	yes	no	Pathogenic	c.1137G>A	(S) p.T379T
480928	caucasian	F	no	no	no	Pathogenic	c.1137G>A	(S) p.T379T

Yale-4726	caucasian	M	no	no	no	Pathogenic	c.1137G>A	(S) p.T379T
254214	caucasian	F	yes	yes	no	Pathogenic	c.1147C>T	(T) p.Q383*
322176	caucasian	F	no	no	no	Pathogenic	c.1476_1477delAG	(T) p.R492Sfs*44
295925	caucasian	F	yes	yes	no	Pathogenic	c.1488_1494delCGAGGAC	(T) p.E497Lfs*23
379160	african american	F	yes	no	no	VLP	c.1565+1delG	(S)
144261	caucasian	F	yes	yes	no	Pathogenic	c.1565+1G>A	(S)
163055	caucasian	M	no	no	no	Pathogenic	c.1565+1G>A	(S)
266750	caucasian	F	yes	yes	no	Pathogenic	c.1565+1G>A	(S)
303524	caucasian	F	yes	yes	no	Pathogenic	c.1565+1G>A	(S)
336812	caucasian	F	yes	yes	no	Pathogenic	c.1565+1G>A	(S)
427129	caucasian	F	yes	yes	no	Pathogenic	c.1565+1G>C	(S)
170199	caucasian	F	yes	yes	no	Pathogenic	c.1565+1G>T	(S)
188262	unknown	F	yes	yes	no	Pathogenic	c.1565+1G>T	(S)
423629	hispanic	M	no	no	no	Pathogenic	c.1565+1G>T	(S)
496303	hispanic	M	no	no	no	Pathogenic	c.1565+1G>T	(S)
496309	hispanic	F	yes	no	yes	Pathogenic	c.1565+1G>T	(S)
464775	caucasian	M	yes	no	yes	Pathogenic	c.1565+2_1565+3insTT	(S)
479391	caucasian	F	yes	no	no	Pathogenic	c.1565+2dupT	(S)
437795	caucasian	F	yes	no	yes	Pathogenic	c.1587dupT	(T) p.A530Cfs*7
477357	caucasian	F	yes	yes	no	Pathogenic	c.1636delG	(T) p.A546Lfs*11
497524	caucasian	M	no	no	no	Pathogenic	c.1636delG	(T) p.A546Lfs*11
424470	caucasian	F	no	no	no	VLP	c.1679C>G	(M) p.T560R
430588	caucasian	M	no	no	no	VLP	c.1679C>G	(M) p.T560R
494133	hispanic	F	yes	yes	no	Pathogenic	c.1679dupC	(T) p.Y561Vfs*27
270796	caucasian	F	yes	yes	yes	VLP	c.1711+2_1711+7delTAAGGG	(S)
272818	caucasian	M	yes	no	yes	VLP	c.1711G>A	(S) p.G571S

347411	ashkenazi jewish	F	yes	no	no	Pathogenic	c.1792C>T	(T) p.R598*
370653	asian	F	yes	yes	no	Pathogenic	c.1792C>T	(T) p.R598*
323915	ashkenazi jewish	M	yes	no	yes	Pathogenic	c.1792C>T	(T) p.R598*
494186	caucasian	F	yes	no	yes	Pathogenic	c.1792C>T	(T) p.R598*
474436	ashkenazi jewish	F	yes	no	yes	Pathogenic	c.1893dupA	(T) p.H632Tfs*31
248408	caucasian	F	yes	no	yes	Pathogenic	c.1921C>T	(T) p.Q641*
274590	african american	F	yes	yes	no	Pathogenic	c.1979dupT	(T) p.D662*
357746	african american	F	no	no	no	Pathogenic	c.1979dupT	(T) p.D662*
365930	african american	F	yes	yes	no	Pathogenic	c.1979dupT	(T) p.D662*
383956	african american	F	yes	yes	no	Pathogenic	c.1979dupT	(T) p.D662*
414469	african american	F	yes	yes	no	Pathogenic	c.1979dupT	(T) p.D662*
471579	african american	F	yes	yes	no	Pathogenic	c.1979dupT	(T) p.D662*
257406	caucasian	F	no	no	no	Pathogenic	c.1999delC	(T) p.L667Sfs*12
437507	caucasian	F	no	no	no	Pathogenic	c.1999delC	(T) p.L667Sfs*12
482512	caucasian	F	yes	yes	no	Pathogenic	c.2029dupC	(T) p.Q677Pfs*11
172418	unknown	F	yes	yes	no	Pathogenic	c.2064_2065delTG	(T) p.C688*
266279	caucasian	F	yes	no	yes	Pathogenic	c.2064_2065delTG	(T) p.C688*
299440	caucasian	F	yes	yes	no	Pathogenic	c.2064_2065delTG	(T) p.C688*
308845	caucasian	F	yes	yes	no	Pathogenic	c.2064_2065delTG	(T) p.C688*
367316	caucasian	F	yes	no	yes	Pathogenic	c.2064_2065delTG	(T) p.C688*
399582	caucasian	F	yes	yes	no	Pathogenic	c.2064_2065delTG	(T) p.C688*
427912	caucasian	F	yes	yes	no	Pathogenic	c.2064_2065delTG	(T) p.C688*
429623	caucasian	F	yes	yes	no	Pathogenic	c.2064_2065delTG	(T) p.C688*

467745	caucasian	F	yes	yes	no	Pathogenic	c.2064_2065delTG	(T) p.C688*
411599	ashkenazi jewish	M	no	no	no	Pathogenic	c.2195G>A	(M) p.R732Q
255454	hispanic	F	yes	no	yes	VLP	c.2272G>A	(M) p.E758K
378761	caucasian	F	yes	yes	yes	Pathogenic	c.2287G>T	(T) p.E763*
377291	caucasian	F	yes	yes	no	Pathogenic	c.2287G>T	(T) p.E763*
Yale- 1147	caucasian	M	no	no	no	Pathogenic	c.2287G>T	(T) p.E763*
302627	caucasian	M	yes	no	yes	Pathogenic	c.2293C>T	(T) p.Q765*
376493	hispanic	F	yes	no	yes	Pathogenic	c.2296-1G>A	(S)
436667	hispanic	F	yes	no	yes	Pathogenic	c.2296-1G>A	(S)
351546	hispanic	F	yes	no	yes	VLP	c.2296-2A>G	(S)
292100	caucasian	F	yes	yes	no	Pathogenic	c.2430delT	(T) p.F810Lfs*6
370264	caucasian	F	yes	yes	no	Pathogenic	c.2430delT	(T) p.F810Lfs*6
387029	caucasian	F	yes	no	yes	Pathogenic	c.2430delT	(T) p.F810Lfs*6
451642	asian	F	yes	yes	no	VLP	c.2506G>T	(T) p.E836*
432353	caucasian	M	no	no	no	Pathogenic	c.2296_c.2649del	
465749	caucasian	F	yes	yes	no	Pathogenic	c.2440_c.*2042del	
310200	caucasian	F	yes	no	yes	Pathogenic	c.164_c.1565del	
278530	caucasian	F	yes	yes	no	Pathogenic	c.2164+1_c.2439del	
246373	caucasian	F	yes	yes	no	Pathogenic	c.163+1_c.687del	

Bolded patients were included in the cancer penetrance analysis

(M) missense variant; (S) donor/acceptor splice site variant; (T) truncating variant