

SNP	Gene	EnsemblID	dbSNP ID	SNP500Cancer ID	Polymorphism	Chromosome
1	IL10	ENSG00000136634	rs3021094	IL10-13	A/C	1
2	FSHR	ENSG00000170820	rs6166	FSHR-04	A/G	2
3	IL1A	ENSG00000115008	rs1800587	IL1A-02	C/T	2
4	MLH1	ENSG00000076242	rs2286940	MLH1-05	C/T	3
5	IL15	ENSG00000164136	rs2254514	IL15-01	C/T	4
6	CDC25C	ENSG00000158402	rs1042124	CDC25C-01	G/T	5
7	IL13	ENSG00000169194	rs1295686	IL13-06	C/T	5
8	DEK	ENSG00000124795	rs172520	-	C/T	6
9	IGF2R	ENSG00000164703	rs998074	IGF2R-11	C/T	6
10	ROS1	ENSG00000047936	rs1998206	ROS1-15	A/C	6
11	SLC26A3	ENSG00000091138	rs2301635	-	C/T	7
12	MYC	ENSG00000136997	rs3824120	MYC-01	G/T	8
13	MXI1	ENSG00000119950	rs17658	-	G/A	10
14	TLX1	ENSG00000107807	rs1111350	-	G/A	10
15	ERCC6	ENSG00000032514	rs2228527	ERCC6-12	A/G	10
16	TLX1	ENSG00000107807	rs2235128	-	G/A	10
17	RAG1	ENSG00000166349	rs2227973	RAG1-01	A/G	11
18	BRCA2	ENSG00000139618	rs144848	BRCA2-01	A/C	13
19	RB1	ENSG00000139687	rs4151539	-	C/G	13
20	APEX1	ENSG00000100823	rs3136820	APEX1-03	G/T	14
21	PAK6	ENSG00000137843	rs11636097	PAK6-24	A/G	15
22	MCL1R	ENSG00000141037	rs3212363	-	A/T	16
23	ELAC2	ENSG00000006744	rs2523	-	T/C	17
24	ELAC2	ENSG00000006744	rs6949	-	A/T	17
25	BRCA1	ENSG0000012048	rs16942	BRCA1-04	A/G	17
26	BRCA1	ENSG000000012048	rs799917	BRCA1-02	C/T	17
27	TP53	ENSG00000141510	rs1042522	TP53-01	C/G	17
28	CSF3	ENSG00000108342	rs1042658	CSF3-02	C/T	17
29	BRCA1	ENSG0000012048	rs1799950	BRCA1-18	A/G	17
30	DCC	ENSG00000187323	rs2229080	-	C/G	18
31	BCL2	ENSG00000171791	rs4987843	-	A/G	18
32	SH3GL1	ENSG00000141985	rs107288	-	C/T	19
33	IL10	ENSG00000136634	rs3024496	IL10-06	C/T	1
34	TP73	ENSG00000078900	rs3765713	-	G/A	1
35	MSH6	ENSG00000116062	rs1042821	MSH6-02	A/G	2
36	BARD1	ENSG00000138376	rs2229571	BARD1-11	C/G	2
37	MSH6	ENSG00000116062	rs3136228	MSH6-01	G/T	2
38	TGFBR2	ENSG00000163513	rs11466512	-	T/A	3
39	MCC	ENSG00000171444	rs3185733	-	G/T	5
40	PTPN12	ENSG00000127947	rs2302473	-	T/C	7
41	GNRH1	ENSG00000147437	rs6185	GNRH1-01	C/G	8
42	RET	ENSG00000165731	rs1800860	RET-02	A/G	10
43	ZNF145	ENSG00000109906	rs670984	-	C/T	11
44	XRCC3	ENSG00000126215	rs861539	XRCC3-01	C/T	14
45	TCL1A	ENSG00000100721	rs1122138	-	C/A	14
46	XRCC1	ENSG00000073050	rs25487	XRCC1-01	A/G	19
47	INSR	ENSG00000171105	rs1051690	INSR-06	A/G	19
48	BAX	ENSG00000087088	rs3817074	BAX-13	A/G	19
49	ASIP	ENSG00000101440	rs819136	ASIP-01	A/G	20
50	COMT	ENSG00000093010	rs4680	COMT-01	A/G	22
51	TP73	ENSG00000078900	rs875233	-	T/C	1
52	TP73	ENSG00000078900	rs3765702	-	C/T	1
53	SCLY	ENSG00000132330	rs3210400	-	G/A	2
54	IL13	ENSG00000169194	rs20541	IL13-01	A/G	5
55	OPRM1	ENSG00000112038	rs1799971	OPRM1-01	A/G	6
56	IGF2R	ENSG00000164703	rs2282140	IGF2R-07	C/T	6
57	TUSC3	ENSG00000104723	rs1035972	-	A/G	8
58	NUP214	ENSG00000126883	rs103612	-	T/C	9
59	PTCH	ENSG00000189024	rs2236405	-	A/T	9
60	NOTCH1	ENSG00000148400	rs11574885	-	A/G	9
61	COPEB	ENSG00000067082	rs17731	-	A/G	10
62	RET	ENSG00000165731	rs1799939	RET-03	A/G	10
63	SUFU	ENSG00000107882	rs1884929	-	C/T	10
64	ERCC6	ENSG00000032514	rs4253211	ERCC6-03	C/G	10
65	NUMA1	ENSG00000137497	rs1057992	-	C/A	11
66	LIG3	ENSG00000005156	rs1052536	LIG3-08	C/T	17
67	LIG1	ENSG00000105486	rs20579	LIG1-03	C/T	19
68	BAX	ENSG00000087088	rs1805419	BAX-02	A/G	19
69	PARP1	ENSG00000143799	rs8679	PARP1-16	C/T	1
70	ARNT	ENSG00000143437	rs10847	ARNT-04	A/G	1
71	NRAS	ENSG00000168638	rs14804	-	C/T	1
72	NRAS	ENSG00000168638	rs2273267	-	T/A	1
73	NPM1	ENSG00000181163	rs3830035	-	G/A	5
74	SMO	ENSG00000128602	rs2735842	-	G/A	7
75	CDKN2A	ENSG00000147889	rs11515	CDKN2A-02	C/G	9

Supplementary Table 1- Data for the 75 SNPs.

Tag ID	Tag Sequence on chip [5'-->3']	Tag ID	Tag Sequence on chip [5'-->3']
LT2	CGCAGGTATCGTATTAAATGATCTGC	LT79	CGTTCAGATAGAGCCACTGATGAGG
LT3	CCTCATGTCAACGAGAACAGAAC	LT80	CATTGTGCATCATATGACGGAACCAT
LT4	ATTGAAGCCTGCCGTCCGAGACATA	LT81	TCCAGCATAAGCGGCTACATGATACC
LT5	AGACTGCGTGTGGCTCTGTACAG	LT82	CTCTGCATCGTTCATTATATATGC
LT6	TTATGGTGATCAGTCAACCACCAGG	LT83	GCAATTCAGATCTCTCACCTACCAA
LT7	GAGACACCTTATGTTCTATACATGC	LT84	ATTATCTCTGGCGGTGTGACATAA
LT8	TCCATGCGCTTGCTTTCATCTAGC	LT85	ATACTGAGCACATCAGCAGGACCCAC
LT9	GCCTTACATACATCTGTCGGTTGTA	LT86	CAGGAGAATCCAGATGGATGCACAA
LT10	CACAAGGAGGTGACACCAGATTGAA	LT87	TCCGAGAATAACGAGTGGATCCATT
LT11	GCCACAGATAAATATTCACATCGTGT	LT88	AGAACCACCAGCCTGATGTGGTTAA
LT12	ACACATACGATCTGCGAACTTCAA	LT89	CGCAACATGCTCTGCTTATAGCAATT
LT13	TTACAGGATGTGCTCAACAGACGTT	LT90	TATGACTATCAAGGCCGCTGAGTG
LT14	GCTCACAATAATTGCATGAGTTGCC	LT91	ACCAATAACGCTTCACTCGAGGCGGT
LT15	CTGCACTGCTCATTAAATATACTTCTGG	LT92	GAGCACCCATGCAATATGCCATTG
LT16	TTACGCACCTGACTGACAGACTGCTT	LT93	ATTGAGGATCGTCTTGGGCTCAGAGC
LT17	CAACATCATCAGCAGAGCATCATT	LT94	AGAGGCAGAACTGGCAGACGACATG
LT18	GCATCAGTAACTCCTTCGTGTATT	LT95	CCAGGTTGATATTGATTCAGAGGTA
LT19	GGCGTTATCACGGTAATGATTAACAGC	LT96	CGACATCACTCCGGTTAACGATGAA
LT20	ACATCAATCTCTGACCGTTCCGC	LT97	TGACGACTTATTGCCGCTCTGTTCC
LT21	GCCTTATGCTCGAACTGACCATAAC	LT98	ACCGGACATATCCTCGAGCGTACC
LT22	CGGATATCACCCAGCATCAATATAGGTAA	LT99	GGATCGATGTGAGAGCTGTCGAACAG
LT23	CCTTAATCTGCTGCAATGCCACAGC	LT100	TGAAGCGTGAAGGCTGCATATGTT
LT24	TAGCTCTCCGCTCAATGACGTCA	LT101	TAGCGTACTGAAGAAGCACCAGGAA
LT25	AGGAACGCCTTACGTTGATTATTGA	LT102	AGGAGGATCTGGAATTCATGATGAA
LT26	GAGTCAGTACCGATGTAGCCGATAA	LT103	AACAGAGAGGTTGCAAGTGGAGGAA
LT27	ACTCGAATGAACCAGGCGATAATGG	LT104	TTCTGGGCGAGTTAATCGAACAAGAC
LT28	ATTATATCTGCCGCGAAGGTACGCC	LT105	ACATCATTACGCATCGTATACGCG
LT29	GGACAGACAGTGGCTACGGCTCAGTT	LT106	GTATCTGCATATGATGTCTGACGCTGGC
LT30	CGGTATTCGCTTAATTCAGCACAAAC	LT107	AGTGTGATGATGACCGTACTCAA
LT31	GCTCTTACCTGTTGTCAGATATAA	LT108	GGTATAGATATAGAGTCGGCATAACA
LT32	GAATCGGTAGTAAGCCCGCCTCTT	LT109	CTGCTACGACCACTGGATGATATGG
LT33	CAATCATGCTGCTAACGTGTGACCG	LT110	GCAGACGTAACCAATATTCGAATTG
LT34	ATGTTGTCTGCGATTGACTCTTCTT	LT111	GCTATACAGGCCAACATTGAGTTAT
LT35	ATTAGCATCGTCACAGCGGATATG	LT112	GACAGCGAGAAATCAACAGTGATAAT
LT36	ATGTTGCGAGCACTTGCAGTACCTT	LT113	ACATTCATGGCTTGCATCGCTACGAA
LT37	AGTTCGTGCTTACCGCAGAAATGCAG	LT114	AATGCTCAATGGATACATAGACAGGG
LT38	CCTGTACCTGAATCAATGTTAGGTT	LT115	TGCTCTCGGAATATCAATGAAGGAA
LT39	CCAGATTACCTGCTGATGATCAACTG	LT116	GGCTATCTATCGGCTTATTAGTACTTG
LT40	ATAATCGGCGTGGCAGATAAACATAT	LT117	TCATGGACAGTTCGACCGTGTGTTAA
LT41	TTGTGCAATCCAATCGTATCCAGTT	LT118	TATTGGACTCAAGAATGCTGCCAGC
LT42	AACCATTGAGAACGTCGTTGACGATG	LT119	GTCCTACGGTCAAGAGAAAGCAATAA
LT43	GCTTCAACGAGCATGTCTGGAATGG	LT120	GATAGGATTAGAAGTTCGAACCGTT
LT44	CACCTCTCGATAGTCCAGCGATGGC	LT121	AGAATATTAAGCTCGACAGTCACT
LT45	AGTTCGACGCGATACGGAACGAGAT	LT122	ACCTTAGTAGTTGGTAACTGACAA
LT46	CGCATTCGTTGTAATATTCGCTTC	LT123	ATGAGGTACACCAAGCCATTATCC
LT47	GATACATGGTAAGTCGCGTCTCTT	LT124	AGAGTTATGATCAGTGCCTAGCAA
LT48	TATTCGGATCGCTCATCAGTTCTGC	LT125	GCTTATCGGAAAGTGAACGAAATCCT
LT49	CAGGTGAGCCGTGATGTTGAAGGTT	LT126	TTGTAATGTCGCTCCGCGACATAG
LT50	ATACTTCGTCGCTGTCTCGCCACAC	LT127	TACTTCTCCAGGCTTCCGACCAACGA
LT51	TAGCTCGTACCATGCTCTGATACAGG	LT128	TGTGCCGTTCCACTTCTGATATCC
LT52	TTCTTCTCGGTACATAAATCTCCTT	LT129	ATTAGTTCGGCCAGCAGATTATAA
LT53	GCAGTTACCGAGATGTTCCGGTATT	LT130	TACCAACTGTATGCGCATGTGCACC
LT54	CCATGCGAGGATATCTTCTTCTCAA	LT131	CCTGTTGAACCGCTCAGACTGTGAG
LT55	GATGCCAATCCACGTTGTTAATTCC	LT132	CTGAGACAATACAGCACGACCGCTG
LT56	CTGCAATACGGTGAAGGTTATATCC	LT133	GCAAGCGGTTAGTCATGGTGGTAG
LT57	TTGGATGTTCAACACCTGTATCCATGA	LT134	CAGCGTATTCAGTGCCTGAGGTGAC
LT58	TGTATAAGCTCTAATAGTCCGCAA	LT135	TAACATCTGCAATCGCGCCAGTAC
LT59	CTGGTTGACTGGCCTATTACCACAA	LT136	AAGCGGCACAGCTGAAGCTATATCTT
LT60	ACGAGAGACGTCACCTAAGCAGGCC	LT137	TACTCCACATCCATGCTTAACGCC
LT61	TCCTGAATGGTTACTACGATTGGTT	LT138	CTGTATACCTGCACCTCCAGCCACTG
LT62	GCTCAGTAATGTAGATGGTCATCTT	LT139	TAATCCATTGTAAGTCCGCGACACC
LT63	CAGTCATATGGACAAGCTCATCTGCG	LT140	AACGTCCACGCGGCTCTCATAGTG
LT64	CCATATCAACACGCTCGCTGACGTT	LT141	TCATAACGGTACTTCAAGTTAATCC
LT65	GTTCTGGTACGCGTTAGCCAGGCTC	LT142	TGCCGCTGACAGTACGCTTACTTCC
LT66	AAGTTAACCATCTGTGCGGCGATGTT	LT143	CGTACCAAGATAACGCGTGTGGTT
LT67	TGGTCAGAGGATTCGCCAGAATTCT	LT144	TTCAGTGTATGACGACAGGCGGTT
LT69	CCGAATAAGCCTCAAGCAGCATATT	LT145	CGTGACACCGGATATGTTGGTATTCC
LT70	GTTACCTCTGCCGAAGTTGAGTATT	LT146	TAAGCCATCCACCGGACCTCAATC
LT71	ATGACCTCAGAACTCCATCTGGATT	LT147	TGGACTTCAGGTTGCTTCTGCTTC
LT72	CTTCTCAGTTCGAAGCATTCGAGTT	LT148	GAGCACCACTGCGCAGGAGGAA
LT73	AAGCAACGCACTCTCGATTCTGAGA	LT149	TCAGGCAGAGTCTCATGTAAGTCCGC
LT74	ATAGTCAACACGCGGTTAGAT	LT151	TTACGCCACAGTCACTCCTCAGGAT
LT76	AGTATGCAGCCGCTCACTTAGAAGTG	LT153	TTCTGCTCTGACATGACGTTATCCA
LT77	AATGACAAGAGTCTGGTTCAGAAGA	LT154	ACACTCTGGCTGATGGACGCAATCT
LT78	ACAGCCTCGCAGATGACGAATCATT	LT155	CCTAACAGTGGCTGAGTGACTCG

Supplementary Table 4 - Chip tags. Each tag has a 15T-spacer and an amino modifier C6 at the 5'-end.

Information					Genotype calls TnT			Genotype calls dbSNP		
SNP	Gene	dbSNP ID	Allele 1	Allele 2	Allele 1	Allele 2	Heteroz.	Allele 1	Allele 2	Heteroz.
1	IL10	rs3021094	G	T	6,77%	93,23%	11,46%	10,0%	90,0%	18,0%
2	FSHR	rs6166	G	A	47,92%	52,08%	45,83%	38,0%	62,0%	47,0%
3	IL1A	rs1800587	A	G	30,46%	69,54%	51,04%	30,0%	70,0%	40,0%
4	MLH1	rs2286940	A	G	8,70%	91,30%	14,58%	27,0%	73,0%	40,0%
5	IL15	rs2254514	T	C	22,40%	77,60%	38,54%	17,0%	83,0%	28,0%
6	CDC25C	rs1042124	T	G	80,53%	19,47%	30,21%	91,0%	9,0%	15,0%
7	IL13	rs1295686	C	T	85,42%	14,58%	25,00%	61,0%	39,0%	47,0%
8	DEK	rs172520	T	C	15,26%	84,74%	23,96%	30,0%	70,0%	42,0%
9	IGF2R	rs998074	C	T	42,71%	57,29%	50,00%	55,0%	45,0%	50,0%
10	ROS1	rs1998206	G	T	12,63%	87,37%	25,00%	15,0%	85,0%	25,0%
11	SLC26A3	rs2301635	T	C	0,00%	100,00%	0,00%	1,0%	99,0%	2,0%
12	MYC	rs3824120	G	T	88,02%	11,98%	21,88%	92,0%	8,0%	15,0%
13	MXI1	rs17658	G	A	68,23%	31,77%	46,88%	78,0%	22,0%	35,0%
14	TLX1	rs1111350	G	A	81,25%	18,75%	27,08%	85,0%	15,0%	26,0%
15	ERCC6	rs2228527	G	A	23,44%	76,56%	36,46%	14,0%	86,0%	25,0%
17	RAG1	rs2227973	G	A	7,29%	92,71%	14,58%	23,0%	77,0%	26,0%
18	BRCA2	rs144848	T	G	66,49%	33,51%	40,63%	75,0%	25,0%	38,0%
19	RB1	rs4151539	C	G	100,00%	0,00%	0,00%	99,0%	1,0%	2,0%
20	APEX1	rs3136820	T	G	52,66%	47,34%	57,29%	56,0%	44,0%	50,0%
21	PAK6	rs11636097	G	A	32,11%	67,89%	48,96%	31,0%	68,0%	43,0%
22	MC1R	rs3212363	T	A	22,11%	77,89%	27,08%	46,0%	53,0%	50,0%
23	ELAC2	rs2523	A	G	61,05%	38,95%	47,92%	50,0%	50,0%	50,0%
24	ELAC2	rs6949	T	A	4,69%	95,31%	9,38%	36,0%	74,0%	39,0%
25	BRCA1	rs16942	C	T	46,02%	53,98%	61,46%	29,0%	71,0%	41,0%
26	BRCA1	rs799917	T	C	39,36%	60,64%	47,92%	46,0%	54,0%	50,0%
27	TP53	rs1042522	C	G	72,11%	27,89%	34,38%	55,0%	45,0%	50,0%
28	CSF3	rs1042658	T	C	39,06%	60,94%	48,96%	41,0%	59,0%	48,0%
29	BRCA1	rs1799950	G	A	4,17%	95,83%	6,25%	2,0%	98,0%	4,0%
30	DCC	rs2229080	C	G	35,42%	64,58%	41,67%	44,0%	56,0%	49,0%
31	BCL2	rs4987843	C	T	89,58%	10,42%	20,83%	88,0%	12,0%	22,0%
32	SH3GL1	rs107288	A	G	43,48%	56,52%	50,00%	26,0%	74,0%	39,0%
33	IL10	rs3024496	A	G	48,81%	51,19%	43,75%	68,0%	32,0%	44,0%
35	MSH6	rs1042821	T	C	18,09%	81,91%	33,33%	16,0%	84,0%	28,0%
36	BARD1	rs2229571	C	G	33,85%	66,15%	51,04%	44,0%	56,0%	29,0%
37	MSH6	rs3136228	T	G	62,11%	37,89%	54,17%	88,0%	12,0%	22,0%
38	TGFBR2	rs11466512	T	A	24,48%	75,52%	36,46%	30,0%	70,0%	42,0%
39	MCC	rs3185733	T	G	54,69%	45,31%	38,54%	59,0%	41,0%	48,0%
41	GNRH1	rs6185	C	G	25,52%	74,48%	34,38%	29,0%	71,0%	41,0%
42	RET	rs1800860	C	T	71,35%	28,65%	36,46%	77,0%	23,0%	36,0%
43	ZNF145	rs670984	A	G	39,06%	60,94%	46,88%	35,0%	65,0%	21,5%
44	XRCC3	rs861539	T	C	28,42%	71,58%	52,08%	23,0%	77,0%	35,0%
45	TCL1A	rs1122138	G	T	86,17%	13,83%	22,92%	89,0%	11,0%	20,0%
46	XRCC1	rs25487	G	A	58,85%	41,15%	44,79%	72,0%	28,0%	40,0%
47	INSR	rs1051690	G	A	82,81%	17,19%	28,13%	82,0%	18,0%	30,0%
48	BAX	rs3817074	A	C	17,71%	82,29%	27,08%	14,0%	86,0%	24,0%
49	ASIP	rs819136	G	A	88,20%	11,80%	21,88%	78,0%	22,0%	34,0%
50	COMT	rs4680	G	A	44,27%	55,73%	57,29%	64,0%	36,0%	46,0%
51	TP73	rs875233	T	C	83,33%	16,67%	25,00%	72,0%	28,0%	40,0%
53	SCLY	rs3210400	C	T	56,77%	43,23%	55,21%	78,0%	22,0%	35,0%
54	IL13	rs20541	T	C	14,58%	85,42%	25,00%	22,0%	78,0%	34,0%
55	OPRM1	rs1799971	C	T	12,50%	87,50%	22,92%	19,0%	81,0%	30,0%
56	IGF2R	rs2282140	T	C	11,98%	88,02%	23,96%	15,0%	85,0%	26,0%
57	TUSC3	rs1035972	G	A	27,44%	72,56%	44,79%	34,0%	66,0%	45,0%
58	NUP214	rs103612	T	C	69,41%	30,59%	37,50%	66,0%	34,0%	45,0%
59	PTCH	rs2236405	T	A	98,96%	1,04%	2,08%	96,0%	4,0%	7,0%
61	COPEB	rs17731	C	T	66,67%	33,33%	45,83%	48,0%	52,0%	50,0%
62	RET	rs1799939	G	T	76,56%	23,44%	36,46%	83,0%	17,0%	28,0%
63	SUFU	rs1884929	T	C	41,15%	58,85%	57,29%	35,0%	65,0%	45,0%
64	ERCC6	rs4253211	C	G	90,63%	9,38%	18,75%	93,0%	7,0%	13,0%
65	NUMA1	rs1057992	G	T	97,92%	2,08%	4,17%	89,0%	11,0%	20,0%
66	LIG3	rs1052536	T	C	41,15%	58,85%	21,88%	34,0%	66,0%	45,0%
67	LIG1	rs20579	T	C	12,50%	87,50%	22,92%	16,0%	84,0%	27,0%
68	BAX	rs1805419	G	A	69,57%	30,43%	35,42%	60,0%	40,0%	48,0%
69	PARP1	rs8679	A	G	79,17%	20,83%	31,25%	78,0%	22,0%	30,0%
72	NRAS	rs2273267	T	A	100,00%	0,00%	0,00%	95,0%	5,0%	10,0%
73	NPM1	rs3830035	G	T	56,79%	43,21%	50,00%	55,0%	45,0%	50,0%
74	SMO	rs2735842	G	A	78,65%	21,35%	32,29%	73,0%	27,0%	39,0%
75	CDKN2A	rs11515	C	G	86,98%	13,02%	23,96%	90,0%	10,0%	10,0%

Supplementary Table 5 - Genotype calls.