

Supplementary Table 5 Comparison of Finnish LOH data and Danish RNA expression data

Marker ^a	% LOH ^b	^c	MB ^d	Position ^e	Cytoband	Accession no	Gene name	Abs Calls ^f
Chromosome 1								
D1S2667	21	up	11,3	11315581-11315850				
		down	14,5	14540374-174726820	1p36.13-q23.3	U54999	Mosaic protein LGN	AAPAA
		down	15,7	15739866-15740124	1p36.1	H96850	DDOST dolichyl-diphosphooligosaccharide-protein glycosyltransferase	PPPPP
		down	15,7	15741674-15741808	1p36	AA412184	myotonic dystrophy kinase 34% hom	PPAP
		down	23,2	23236276-23236507	1p36.11	Y08134	ASM-like phosphodiesterase 3b; acid sphingomyelinase-like phosphodi	PPAPP
		down	25,6	25687994-31988821	1p35	M22430	RASF-A PLA2 phospholipase A2, group IIA	PPPPP
		down	31,9	31988822-50406627	1p34-p33	Z70295	GCAP-II Guanylate cyclase activator 2B; UROGUANYLIN; UGN,	PAAAA
D1S2697	29		37,4	37496750-37497030				
D1S2890	19		51,9	51968776-51968953				
		down	55,2	55253420-71005490	1p32.3-31.2	M83088	Phosphoglucosyltransferase 1 (PGM1)	PPAPP
		down	62,6	62697042-62697169	1pter-q31.3	M97496	GUCA1B guanylate cyclase activator 1B / guanylin	PPAPP
		down	81,5	81508678-81508875	1pter-p13.2	M55543	* guanylate binding protein isom II (GBP-2),	PPPAA
		down	105,4	105417708-118988722	1p13-p12	X83618	HMG-CoA Synthase; 3-hydroxy-3-methylglutaryl coenzyme A synth	PPAPP
D1S498	14		140,1	140081588-140081778				
		down	?	not found	1q21-q22	U29091	SBP selenium-binding protein	PPPAP
		down	?	not found	1q21.3-q23	AJ131461	* EST adipocyte-specific secretory protein; APM-1	PAAAA
		down	144,1	144073582-144073809	1q21.1	Z47553	Flavin-containing monooxygenase 5 (FMO5)	PAAAA
		down	151,5	151522304-151522425	1q12	F05038	NM_007221 PMF1 polyamine modulated factor 1	PPAPP
		down	155,7	155681503-155681891	1q21-q23	J05096	* Na,K-ATPase subunit alpha 2 (ATP1A2) gene,	PAAAA
		down	157,0	157016262-157016509	1q23.1-24.1	W72366	NM_021181 , 19A24-protein (novel LY9 (lymphocyte antigen 9) , CE	PPAAP
D1S2868	21		173,1	173117564-173117705				
		down	166,7	166740637-166740750	1p36.13-q31.3	U79725	Glycoprotein A33	PPPPP
		down	183,1	183136506-183136638	1	D14662	KIAA0106 or AQP2	PPPPP
D1S218	13		183,9	183917729-183918004				
D1S413	28		201,9	201927010-201927257				
		down	242,8	242841667-242841789	1	U61232	Tubulin-folding cofactor E / Tubulin-specific Chaperone e	PAAAA
		down	231,9	231947602-231947703	1q41-q42	M23254	mCANP calpain, Ca2-activated neutral protease large subunit	PPPPP
		down		not found	1	N79237	NM_017625 hypothetical protein FLJ20022 unnamed protein product,	IPPPPP
Chromosome 2								
D2S2211	18		7,2	7245258-7245511				
		down	9,0	9038814-9038913	2	AA504806	AF052107 clone 23620	PPAPP
		down	28,3	28390423-28390553	2p23	D16481	MTP-beta Mitochondrial 3-ketoacyl-CoA thiolase beta-subunit	PPAP
		down	55,5	55582170-55582282	2	AA393432	unnamed protein product AAD20029	PPPPP
D2S367	20		56,5	56515665-56515807				
		down	71,1	71123277-71123408	2p14-p13	S81083	ADD2 Beta Adducin	PAAAA
		down	74,1	74189904-74190059	2p13.1	D00654	gamma-actin gene	PPPPP
		up		78177869-78177994	2p12	J05412	* regenerating protein (REG)	MPPPP
		up		78177869-78177994	2p12	L08010	Reg gene homologue (REG1B = regenerating islet-derived 1 beta)	APPPP
		down	81,7	81712103-93242031	2p11	M10050	L-FABP liver fatty acid binding protein 1	PPPPP
D2S2216	8		86,6	86668705-86668839				
		down	88,0	88007249-88007433	2p11.2	D76444	HKF-1	PPPAP
		down	150,5	150554558-150554685	2	N98707	* EST kinesin family member 5C (KIF5C) KIAA0531 protein	PAAAA
D2S2330	11		167,3	167385324-167385480				
		down	171,6	171695179-171695359	2q36-q37	J04040	Glucagon	PPAAA
		down	186,8	186805197-186805443	2q31-q32	X16983	* integrin alpha-4 subunit	PAAAA
		down	198,1	198198039-198198194	2	AA279803	EST	PAAAA
		down		not found	2q37	X52022	* type VI collagen alpha3 chain	MPPPP
		down	241,1	241084557-241084786	2q35-q37	X54232	* heparan sulfate proteoglycan (glypican)	MPPPAP
Chromosome 3								
		down	16,9	16937494-16937623	3p25.3-3p24.1	N41059	AAF36132 hypothetical protein NM_016474 & XM_003077 fct unknc	PPAPP
D3S1266	17		26,4	26415485-26415777				
		down	38,5	38531835-38531933	3p22	X77777	VIPR1 Vasoactive intestinal polypeptide receptor 1; Pituitary Adenylat	PAAAA
		down	42,5	42486955-42487110	3p22-p21.3	X64559	TNA Tetranectin	PAAAA
		down	43,9	43984230-43984342	3p22-p21.3	U41740	GOLGIN Trans-Golgi p230, golgi autoantigen	PPAPP
		down	?	not found	3p22	T71132	NM_004624 VIPR1 Vasoactive intestinal polypeptide receptor 1; Pitu	PPAAA
		down	46,1	46096958-46097098	3p22-p21.3	M24248	MLC-1V/Sb isom gene; myosin alkali light chain	PAAAA
D3S1289	14		53,7	53715020-53715232				
		down	133,0	133047822-133047955	3p13-q26.1	U67963	HU-K5 Lysophospholipase homolog	PPPPP
D3S1292	23		137,3	137351882-137352025				
		down	146,8	146832891-146833040	3p13-q26.1	T23460	P42338 phosphoinositide-3-kinase NM_006219 PIK3CB	PPAPP
		down	142,6	142634423-142634577	3q26.2-q27	D87127	* translocation protein-1,	PPAAA
		down	165,7	165739433-165739599	3q26	U37518	TRAIL or Apo-2L TNF-related apoptosis inducing ligand	PPPPP
		down	174,3	174343213-174343428	3q26.2-qter	J02611	* apolipoprotein D,	PAPAP
		down	181,2	181241389-181241494	3q28	J00306	SMST somatostatin I	PAAAA
D3S1565	15		183,4	183492852-183493094				
Chromosome 4								
		down	22,1	22066491-22066600	4p16-p15	M60047	HBp17 heparin binding protein	PAAAA
D4S403	18		38,0	38099603-38099823				
		up		not found	4q12	L19183	MAC30 Insulin-like-growth factor binding protein 7; IGFBP7	APPPP
		up		not found	4q11-q13	HG2841-HT2968	* Albumin, Alt. Splice 1	APPMA
		up		not found	4q12	HG987-HT987	Mac25 Insulin-like growth factor binding protein 7	PPPPP
		up	70,3	70302316-70302438	4q12-q13	Y00787	IL8 or MDNCF (monocyte-derived neutrophil chemotactic factor)	PPPPP
		up	70,3	70302316-70302438	4q12-q13	M28130	Interleukin 8 (IL8)	APPPP
		down	70,4	70434441-70434718	4q21	M12759	step II splicing factor SLU7; Ig J chain gene	PPPAP
		down	70,4	70434502-70434628	4q21	T90492	step II splicing factor SLU7	PPPPP
		up	74,7	74787725-74787878	4q21	M57731	* GRO2 oncogene , gro-beta	APPPP

	D4S1534	22	down	84,5	84550900-84551031	4q21.1	AA426330	ASAH1 - N acylsphingosine amidohydrolase acid ceramidase like /	ACPPAAA
			down	92,0	92011808-92012011	4q21	L13773	* AF-4 , myeloid/lymphoid or mixed-lineag	PPPP
				93,2	93256355-93256510				
			down	97,4	97461916-97462013	4q21	U46901	NACP Alpha-Synuclein	PAAAA
			down	not found		4q22	M12963	* Class I alcohol dehydrogenase (ADH1) alpha subunit ,	PPPP
			down	107,1	107083190-107083402	4q21-q23	T40995	NM_000669 ADH gamma 2 subunit (aa 1-375)	PPAAA
			down	107,1	107083190-107083402	4q21-q23	M12272	ADH3 alcohol dehydrogenase class I gamma subunit	PPPPP
				111,7	111778468-111778608				
			down	115,9	115976464-115976665	4q22-q26	X96752	* L-3-hydroxyacyl-CoA dehydrogenase	PPPPP
			down	146,5	146551397-146551616	4q31.1	M16801	* mineralocorticoid receptor (hMR) nuclear receptor subfamily 3, group PPPAA	
	D4S1575	38	down	146,5	146551397-146551616	4q31.1	N91919	NR3C2 or MCR Mineralocorticoid receptor	PPAAP
	D4S1539	28		151,2	151204615-151204833				
			down	175,04	175046856-175047082				
			down	190,5	190524832-190525022	4q34-q35	L76465	* NAD+-dependent 15 hydroxyprostaglandin dehydrogenase (PGDH) ,	PPAAP
			down	not found		4	T90037	hypothetical protein	PPPPP
			down	not found		4	C02386	NM_016619 position 18-727 hypothetical protein (LOC51316)	PPPPP
Chromosome 5									
			down	0,2	264932-265162	5p15	L21936	SDH2 Succinate dehydrogenase flavoprotein subunit / Flavoprotein sub	PPPPP
	D5S630	20		7,4	7424060-7424317				
	D5S641	19		75,5	75590355-75590621				
			up	85,8	85834742-85835066	5q13	M23379	* RAS p21 protein activator	APAPP
			up	not found		5q13	U92971	PAR3 Protease-activated receptor 3	AAAAP
			up			5q14	L08895	* MADS/MEF2-family transcription factor (MEF2C) ,	APAAA
			up			5q14	D16217	* CAST calpastatin	PPPPP
	D5S644	37		92,2	92203949-92204047				
			down	112,9	112991875-112991983	5p14.2-q15	N30796	NM_020681 HT018 protein	PPPPA
	D5S471	31		115,6	115638887-115639129				
			up	129,0	129040822-129040966	5q31	M77349	TGFB1 or BIGH3 transforming growth factor-beta induced gene produc	PPPPP
			down	131,8	131829588-131829726	5q31.1	X52541	Early growth response protein 1 (hEGR1)	PPPP
			down	140,5	140552690-140552841	5q31.1	X13334	CD14 antigen, myelid cell-specific leucine-rich glycoprotein	PPPP
			down	140,7	140730922-140731102	5q31	Z11793	Selenoprotein P	PPPP
			down	141,5	141569970-141570137	5q31-q33	U51095	Cdx1 homeobox transcription factor 1	PPPPP
			down	141,8	141766842-141766971	5q32-q33.1	U14528	DTD Sulfate transporter	PAAAA
	D5S436	26		144,1	144057662-144057905				
			down	145,4	145479388-145479501	5q31-33	T99196	AK025102 position 2529-3311	PPAAP
			up	145,6	145677449-145677513	5q31.3-q32	J03040	SPARC / osteonectin secreted protein, acidic, cysteine-rich	PPPPP
	D5S410	26		153,3	153305681-153305841				
Chromosome 6									
			up			6p25.3-p24.3	M14539	* factor XIII subunit a , 3' end	AAPAM
			up			6p22.3	X70683	Transcription factor SOX-4	PPPPP
			down	not found		6p22.3-p22.	W31906	CAA76365 Secretagoin	PAAAA
			up			6p22.3	X70683	Transcription factor SOX-4	PPPPP
			up	not found		6pter-p21.32	AW595914	* EST H2B.2 and H2A.1 genes Histone H2A and H2B	
	D6S276	26		26,6	26634135-26634354				
			down	29,1	29137148-39757229	6p21.3	M57466	MHC class II HLA-DP light chain	PPPP
			down	29,2	29289236-29289384	6p21.3	N33927	NM_021063 H2B histone family, member B	PPAAA
			down	29,1	29137148-39757229	6p21.3	T47089	TNXB Tenascin-XB1; unidentified protein AL049547	PAAAA
			down	29,1	29137148-39757229	6p21.3	T90190	NM_005319 H1 histone family, member 2	PPAAA
			up	34,1	34105582-34105703	6p21.3	S81914	* IER3 Immediate early response 3 or FLOT1 Flotillin	PPPPP
			down	35,1	35177288-35177442	6p21.3	M11717	* heat shock protein (hsp 70) gene, .	PPPPP
			up	35,3	35306939-35307041	6p21.3	L09708	Complement component 2 (C2) ; C3/C5 CONVERTASE	APPPP
			down	35,5	35509474-35509591	6p21.31	D60328	RNF5 or RING5 Ring finger protein 5	PPPPP
			up	36,1	36129902-36130023	6p21.3	X66401	* RING12 genes TAP1, TAP2, LMP2, LMP7 and DOB. proteasome, ma	PPPPP
			up	not found		6p21.3	X57522	* TAP1, transporter 1, ABC (ATP binding cassette), RING4 cDNA	PPPPP
			up	not found		6p21.3	L15702	* Properdin MHC class III serum complement factor B	PPPPP
			down	?	161580159-161580285	6p21.3	R49198	Ribosomal protein S18	PPPPP
	D6S1610	27		58,6	58665460-58665590				
			up	not found		6	L40357	* thyroid receptor interactor (TRIP7) , 3' end of	PAAAP
			down	?	not found	6pter-q15	N91087	NM_017633 hypothetical protein FLJ20037	PPPPP
			up	not found		6q12.13	BB013290	* EST novel - UDP-glucuronyltransferase-S (GLCAT-S) homolog	
Chromosome 7									
	D7S513	24		10,0	10539632-10539826				
			down	14,3	14310453-14310578	7pter-p21.1	H07011	NM_014399 tetraspan NET-6 mRNA; transmembrane 4 superfamily	PAAAA
			down	not found		7	AA487468	XAG-2 Secreted cement gland protein homolog	PPPPP
			down	not found		7p15.1-p13	AA099820	EST (BAC clone AC016778)	PAAAA
			down	not found		7p15-p13	AC016778	* EST BAC clone	PAAAA
			down	92,9	92916073-92916209	7q21-q22	AA429253	YOTIAO - A kinase (PRKA) anchor protein 9, AKAP450, CG-NAP, ma	PPPPP
			down	89,1	89076532-89076736	7q21.1	M32886	SRI Sorcin CP-22	PPPPP
			down	94,1	94101472-94101645	7q21.1	H75860	EST	PPAAA
	D7S657	18		94,0	94089636-94089885				
	D7S515	20		102,4	102430138-102430299				
			down	121,3	121367305-121367491	7q31	L02785	colon mucosa-associated (DRA) , DOWNREGULATED IN ADENOMA	PPPP
			down	not found		7q32	L11285	* ERK activator kinase (MEK2) ; MAP2K2 (mitogen-activated protein ki	PPPPP
	D7S530	10		135,7	135742218-135742325				
			down	not found		7	AA428410	KIAA0828 protein	PPPPP
Chromosome 8									
			down	16,9	16990801-16990920	8p21.3-p22	AA461174	NM_016353 anti-oncogene; rec - reduced expression in cancer	PPPPP
	D8S258	24		20,7	20712310-20712459				
			down	39,2	39259721-39259909	8p	W42789	PRO1430 hypothetical protein C8ORF4 protein , fct unknown	PPAPP
	D8S505	25		36,3	36384343-36384551				

Chromosome 9	D8S270	30	up	46,5	46590573-46590756	8q11.2	X74794	P1-CDC21 DNA replication licensing factor MCM4	AAPAA
			up	52,4	52464687-52464838	8q11.2	L37362	Kappa opioid receptor (OPRK1)	AAAPA
			up	86,2	86160075-86160350 (bp)	8p22-q21.13	X12953	* RAB2, member RAS oncogene family; YPT1-related	APPA
			up		not found	8p22-q21.13	M28213	* GTP-binding protein (RAB2) ; ras related	PPPPP
			down	91,4-95,	591430950-91431080 and	8q21.3	U49352	DECRI 2,4-Dienoyl-CoA-reductase, mitochondrial	PPAP
				95,5	95523984-95524104				
			up	95,5	95557476-95557795	8q13-q21	U10550	* GEM GTPase	APPAP
			up		not found	8q21	J02874	Adipocyte lipid-binding protein,	AAPAA
			up		not found	8q22	Z48501	PABP2 polyadenylate binding protein II	PPPPP
			up		not found	8q24	D78129	* squalene epoxidase	PPPPP
Chromosome 10	D9S1677	15	down		not found	9p13	AB001325	AQP3 Aquaporine 3	PPAP
			down		not found	9q31	AA621680	GKLF zinc finger transcription factor; EZF - epithelial zinc finger; gut-	PPPPP
				101,1	101164035-101164292				
			up	106,6	106635613-106635779	9q31-q32	X02544	ORM1 Orosomucoid or alpha1-acid glycoprotein	AAPAA
			up	118,3	118301296-118301438	9q33	X59841	* PBX3 pre-B-cell leukemia transcription factor 3	APPMP
			up		not found	9q34 ?	M54994	* EST bile salt-activated lipase (BAL)	APPPP
			up	119,4	119484530-119484709	9q34	S75256	LCN2 lipocalin 2 (oncogene 24p3) HNL=neutrophil lipocalin or NGAL	PPPPP
			down	119,4	119484530-119484709	9q34	X99133	NGAL / LCN2 lipocalin 2 (neutrophil gelatinase-associated lipocalin)	PPPPP
			up		not found	9q34.2-q34.3	AA055896	COL5A1 - M76729 pro-alpha-1 (V) collagen	PPPPP
				129,2	129241446-129241580				
Chromosome 11	D10S249	24		0,9	98388-198509				
				97,2	97284184-97284375				
				106,0	106064646-106064841				
			down	102,3	102358989-110826641	10q24	T24011	NM_014456 JC5193 nuclear protein H731 - Programmed cell death 4	PPPPP
			down	110,8	110826642-117550954	10q25.1-q25.2	U67319	* Lice2 beta cysteine protease/CASP7 caspase 7, apoptosis-related cystei	PPPA
			down	110,8	110826642-119792392	10q25	U15932	* DUSP5 dual-specificity phosphatase 5	PPMAP
			down	111,7	111712764-111712904	10q24	D87435	KIAA0248 - GBF1 = golgi-specific brefeldin A resistance factor 1	PPAPP
				139,4	139449782-139449970				
Chromosome 12	D11S4191	9	up	0,1	93529-93768	11p15.5	X57351	IFITM2 Interferon-induced transmembrane protein 2	PPPPP
			up	0,3	274177-274450	11p15.5	M32053	HI9 RNA gene	APPPP
			up			11p15.5	HG1428-HT1428	Globin, Beta / HBB hemoglobin	PPPPP
			up			11p15.5	M25079	* " sickle cell beta-globin / hemoglobin beta	PPPPP
			down		not found	11p15.5	L21998	MUC2 Intestinal mucin	PPPPP
			down	4,6	4663579-4663790	11p15.4-p15.1	M59916	* acid sphingomyelinase (ASM) ,	PPAAA
				57,6	57692796-57692922				
			up			11q12	AA452549	XM_006345 , PRO1659; hypothetical protein , unknown function	PPPPP
			down	60,4	60494992-60495163	11q12.2	M80899	* AHNAK nucleoprotein (desmoyokin)	PPPA
			up			11q13	M86752	Hsp70/Hsp90-organizing protein, stress-induced-phosphoprotein 1; tra	APPPP
Chromosome 13	D12S1617	31	down	64,5	64564703-64564909	11q13	X04366	muCANP, Calpain 1, calcium activated neutral protease large subunit (IP	PPPPP
			down		not found	11	N48609	MTVR Mouse Mammary Tumor Virus Receptor homolog	PPPPA
			up		not found	11q13	N89910	solute carrier family 21 (organic anion transporter SLC21A9) NM_007	AAAPP
			up		not found	11q13.3	X84709	Fas-associating protein with death domain / mediator of receptor-induct	AAAAP
			up	65,7	65702002-65702110	11q13	X59798	* PRAD1 cyclin D1	PPPPP
			up	73,8	73847985-73848177	11q13.5	D83174	* collagen binding protein 2	PPPPP
			up	103,1	103066806-103066885	11q22.2-q22.3	L23808	* metalloproteinase (HME) MMP12	PPPPP
			up	114,6	114601161-114601282	11q23.1	U08021	NNMT Nicotinamide N-methyltransferase	APPPP
			up		not found	11q23.3	M29277	* MCAM melanoma adhesion molecule - MUC18 glycoprotein (3' varian	PPPPP
			down	108,6	108650179-108650382	11q22.3-q23.1	D10511	ACAT 1 mitochondrial acetoacetyl-CoA thiolase	PPAPP
Chromosome 14	D11S925	26		131,5	131576338-131576512				
			down	137,3	137320960-137321108	11q	AA242824	EST ac005233 PAC clone	PPPPP
			down	4,7	4778464-4778618	12p13.3	L04490	NADH-ubiquinone oxidoreductase subunit	PPAPP
				5,9	5949395-5949614				
			down	6,4	6493350-6493519	12p13	X76180	SCNN1A Na+ channel, nonvoltage-gated 1 alpha, amiloride sensitive	PPPPP
				26,7	26722861-26723117				
			down	26,9	26908266-126908379	12q21.31	AA432130	KIAA0867 protein MondoA	PPPPP
				48,4	48482271-48482395				
			down	52,0	52020469-52020594	12q13	M74491	ARF3 ADP-ribosylation factor 3	PPPPP
Chromosome 15	D12S78	19	up			12q11-q13	X06256	* ITGA5 = integrin, alpha 5 fibronectin receptor alpha subunit	AAPAA
			down	56,1	56118928-56119150	12q12-q13	X99140	HHB5 Type II intermediate filament of hair keratin	PAAAA
			down	56,6	56643298-56643411	12q13	X52943	ATF7 activating transcription factor 7	PAAAA
			down	57,3	57398306-57398699	12q13	U29700	AMHR2 Anti-mullerian hormone type II receptor	PAAAA
			down	59,2	59290126-59290293	12q13.3	X62535	* diacylglycerol kinase	PPPPP
			down	64,0	64000244-64000357	12q14.1-q21.1	M35252	* CO-029; transmembrane 4 superfamily member 3	PPPPP
			up			12q23	M14219	* chondroitin/dermatan sulfate proteoglycan (PG40) core protein ,	MPPAP
				102,9	102912296-102912484				
			down	130,1	130166975-130167258	12q22-qter	Z80345	SCAD Acyl-Coenzyme A dehydrogenase (ACADS)	PAAAA
			up	129,1	129071969-129072167	12	Z22555	CLA-1 , CD36/LIMPII gene family	APPPP
Chromosome 17	D12S324	17		135,8	135898298-135898516				
			down		not found	12p13-qter	M19483	ATP5B ATP Synthase, mitochondrial F1 complex, beta subunit	PPPPP
			up	17,2	17261784-17262016	13q11-q12	AA034499	ZNF198 protein; zinc finger protein; FIM protein; Cys-rich protein; zin	APPPP
			up	29,1	29101853-36053856	13q12.3-q13.1	HG4312-HT4582	TFIIIA Transcription Factor IIIa	APPPP
			up	35,4	35405882-35406022	13q14	Y12812	RFXAP Regulatory factor X-associated protein	AAAAP
				86,2	86269933-86270056				
			down	95,1	95060511-95060686	13q32.1-33.3	btR01646	homology to mouse Pcbp1 - poly(rC)-binding protein 1	PAAAA
			up	104,4	104428691-104428952	13q32	S79219	* metastasis-associated gene ; PCCA (propionyl Coenzyme A carboxylas	PPPPP

		up	114,6	114681770-114681987	13q34	X05610	Type IV collagen alpha -2 chain	PPPPP
		up	114,8	114822797-114823045	13q34	U58090	* Cullin4a	APPPA
		up	115,6	115689304-115689458	13qtel	U18291	* CDC16Hs cell division cycle 16; ANAPHASE-PROMOTING COMPI	PPPPP
		up	115,7	111577914-111578014	13q34	M26576	* alpha-1 collagen type IV gene, exon 52.	PPPPP
D13S285	34		116,4	116474326-116474421				
Chromosome 14								
D14S283	37		19,1	19118725-19118855				
		down	19,4	19465018-19465251	14q11	D15057	* DAD1 defender against cell death 1	PPPPP
D14S288	31		44,5	44500338-44500540				
		down	48,2	48284847-48284970	14q13.1-q13.3	M15661	RPL36A Ribosomal protein L36a	PPPPP
D14S63	33		59,0	59073362-59073492				
		down		not found	14	D26129	RNAse1 or RNAseA Ribonuclease A	PPPPP
		down	64,9	64926352-64926501	14q24	D87434	KIAA0247 gene	PPPPA
D14S258	51		65,3	65363022-65363197				
		down	66,2	66211457-66211606	14	AA255903	CD39L4; CD39-like 4; ENTPD5 ectonucleoside triphosphate diphosph	PPAAP
		down	93,4	93403741-93403890	14q24-q31	HG1862-HT1897	CALM1 Calmodulin Type 1	PPPPP
D14S280	24		94,7	94775808-94776040				
		down	96,6	96649369-96649616	14q32	J03915	Chromogranin A , CgA	PAAAA
		down	96,6	not found	14q32	M16364	CKB creatine kinase-B brain	PPPPP
		down		not found	14q32.33	V00563	Immunoglobulin heavy constant mu	PPPPP
Chromosome 15								
		down		not found	15q12	J04615	* small nuclear ribonucleoprotein, snRNP, SM-D; lupus autoantigen	PAPPA
		down	38,3	38366953-38367080	15q15	J04469	CKMT mitochondrial creatine kinase	PPPPP
D15S994	33		40,3	40247885-40248102				
		down	46,8	46889444-46889569	15q21	H04768	EST	PAAAA
		down	62,1	62056942-62057079	15q11.2	AA253330	NM_017689 hypothetical protein	PPPPP
		down	?	not found	15q12-q24.3	M94856	PA-FABP Fatty acid binding protein 5 homologue	PPPPP
		down	62,1	62112166-62112357	15q22	AA171913	carbonic anhydrase XII (CA12)	PPPPP
		down	62,1	62112166-62112357	15q22	AA151674	EST carbonic anhydrase XII	PPPPP
D15S153	38		65,2	65283718-65283929	15q11.2			
		down		not found	15q23-q25	AA319615	secretory carrier membrane protein 2 (SCAMP2)	PAAAA
		up	75,9	75951465-75951610	15q	N71781	BAA86513 KIAA1199 protein fct unknown	APPPP
		up	84,4	84433834-84434018	15q25	U58516	Lactadherin; BA46 Breast epithelial antigen; MFG-E8 milk fat globule-	PPPPP
		up	85,5	85588470-85588626	15q25	D45556	CAB98208 hypothetical protein	AAAPA
		down	87,6	87696272-87696386	15q25-q26	M22324	Aminopeptidase N / CD13	PAAAA
		down	87,6	87666605-87666835	15q25	X99459	AP3S2 Sigma 3B protein; adaptor-related protein complex 3, sigma 2	PPPPAP
		down	?	not found	15q25.3-q26	U85611	PRKDCIP or KIP or CIB; calcium & integrin binding protein (DNA-de	PPPPP
D15S127	33		88,6	88688163-88688292				
		up		not found	15q26	W94688	PLIN Perilipin	AAAPAA
D15S130	36		92,4	92447163-92447384				
		down	98,6	98646821-98646946	15q26	M80482	* subtilisin-like protein (PACE4) , paired basic amino acid cleaving syst	PPPPMP
Chromosome 16								
		down	16,5	16511942-16512109	16p13.13-p13.1	AF001548	* myosin, heavy polypeptide 11, smooth muscle; chrom. 16 BAC clone C	PPPPP
D16S3046	14		24,3	24378904-24379007				
		down	23,9	23964377-23964560	16p11.2	X60188	ERK1 protein serine/threonine kinase MAP3 kinase	PPPPAP
		down	24,7	24756673-24756803	16p12.2-p12.1	X87159	SCNN1B beta subunit of epithelial nonvoltage-gated 1 amiloride-sensit	PAAAA
D16S3068	20		44,5	44512920-44513060				
D16S415	18		53,6	53627815-53628040				
		down	56,5	56569307-56569446	16q13	X76717	MT-1L and mtl-x metallothionein 1L	PAAAA
		down	56,5	56569307-56569446	16q13	V00594	MT2 metallothionein 2A	PPPPP
		down	56,5	56569307-56569446	16q13	T68873	NM_002450 metallothionein 1L	PPAAA
		down	56,5	56569307-56569446	16q13	M10942	Metallothionein-Ic gene (hMT-1c)	PPPPP
		down	56,5	56569307-56569446	16q13	H77597	AF078844 Metallothionein 1H	PPPPP
		down	56,5	56569307-56569446	16q13	N80129	MT-1I protein; metallothionein IX; metallothionein 1L	PPPPP
D16S503	14		65,5	65526175-65526407				
		down	69,5	69544636-69544797	16q22.1-q22.3	Y09616	CES 2 carboxylesterase 2	PPPPP
		down	70,2	70225467-70225618	16q22	U26726	11-beta-hydroxysteroid dehydrogenase type 2	PPPPP
		down	70,2	70226826-70226951	16	X71490	Lysosomal (vacuolar) proton ATPase, subunit D	PPAPP
		down	70,7	70740197-70740287	16q22.1	X71874	* prosome, macropain, proteasome-like subunit (MECL-1), chymotrypsin	PPPPP
D16S515	25		80,2	80255686-80255915				
		down	83,5	83519615-83519808	16q24.1-q24.2	N23665	L11708 Estradiol-17 Beta-Dehydrogenase 2	PPPPP
		up	88,1	88133003-88133347	16q24.3	M80244	* E16; cationic amino acid transporter, SLC7A5	PPPPP
		up	89,1	89151788-89152006	16q24.3	AA609013	microsomal dipeptidase	APPPP
		up	91,4	91446703-91446921	16q24.3	J05257	MDP4, MDP7 microsomal dipeptidase	APPPP
		up			16q24	X78342	PISSLRE - protein kinase, serine/threonine cdc2-related	APAAA
Chromosome 17								
D17S849	52		1,4	1490988-1491240				
		down	3,5	1-35161345	17p13-p11	D43682	* ACADVL very-long-chain acyl-CoA dehydrogenase (VLCAD),	PPPPP
		down	3,8	3887412-3887540	17pTEL	AA447145	KIAA0399 protein; hypothetical protein FLJ10821	PPPAA
		down	?	not found	17ptel 17p13.3	U72342	PAFAH1B1 or PAFAHA or LIS1 or MDCK platelet activating factor a	PAPPP
D17S938	56		5,1	5075329-5075506				
		down	7,4	7402687-7402850	17p13.1	AA490593	VAMP-2, SYB2 SYNAPTOBREVIN 2 (VESICLE-ASSOCIATED	APPPPA
		down	34,6	34660788-34661176	17q11.2-q12	M21121	* T cell-specific protein (RANTES) ,	PMAAP
D17S798	26		31,8	31809558-31809766				
		down	34,6	34660788-34661176	17q11.2-q12	M21121	* SCYA5; small inducible cytokine A5 (RANTES); T cell-specific prote	PMAAP
		down	39,7	39739254-39739373	17q21	Y00503	Keratin 19	PPPPP
		down	39,9	39980241-39980579	17q21	AA133469	cytokeratin 20	PPPPP
		up			17q21	AA024482	BAA92054 unnamed protein product DKFZP434G032 protein NM_01:	APPPP
		up			17q21	W80763	CAB61418 hypothetical protein	APPPP
		up	58,7	58739281-58739507	17q21-q23	N22015	hypothetical protein BAA91085 (TIGR)	PPPPP

D17S787	20	60,4	60430980-60431131				
	down	60,5	60522643-60522886	17q23	M83670	EST carbonic anhydrase IV	PPPPP
	up	64,0	64022695-64022882	17q11-qter	U29463	Cytochrome b561 gene	APPPP
	up	70,9	70952727-70952928	17q24.3-q25.1	Z46629	* SOX9	APPPP
	up	75,4	75420006-75420179	17q25.2	AA232646	SPHK1 Sphingosine kinase	AAAAA
	up		not found	17q25	AA386386	P4HB or PDI Prolyl 4-hydroxylase beta subunit, NM_000918 or J0278	PPPPP
	down		not found	17q25.2-q25.3	U77643	K12 protein precursor , SECTM1 (secreted and transmembrane 1)	PPAAA
Chromosome 18							
D18S53	44	13,7	13726365-13726543				
	down	21,2	21201886-21201996	18q11.1-q11.2	U66075	Transcription factor hGATA-6	PAAAA
	down	22,3	22368217-22368353	18q11.2	L34155	LamA3 laminin-related protein	PPPAP
	down	31,8	31832104-64761866	18q12-q21	D14710	ATP5A1 ATP synthase alpha	PPPPP
D18S1102	-	34,7	34762543-34762756				
	down	48,4	48470048-48470160	18q	D16294	Mitochondrial 3-oxoacyl-CoA thiolase	PPPAP
D18S64	62	59,5	59526919-59527126				
Chromosome 19							
D19S216	15	4,8	4880133-4880317				
	down	5,2	5248481-5248580	19pTEL	M84526	adipsin, complement factor D CDA (EST)	PAAAA
	down	?	not found	19p13.2	M37104	Mitochondrial ATPase coupling factor 6 subunit (ATP5A)	PPPAP
	down	?	not found	19p13.3-p13.2	K02765	Complement component C3	PPPPA
	up	15,6	15636001-15636276	19	Z21507	EF-1delta elongation factor-1-delta	PPPPP
	up			19pter-p13.3	U29175	* transcriptional activator (BRG1); SMARCA4	PPPPP
	up	12,4	12431648-12431846	19p13.2	U20734	* transcription factor junB (junB) gene, 5' region and	PPPPP
	up	12,4	12431648-12431846	19p13.2	X51345	JUN-B proto-oncogene	PPPPP
	up			19p13.2	X54637	* tyk2 non-receptor protein tyrosine kinase	PPPPP
	up			19p13.1-13.2	AB000584	GDF15 GROWTH/DIFFERENTIATION FACTOR 15; bone morphog	PPPPP
D19S209	14	31,0	31043823-31044004				
	down	46,8	46851275-46851437	19pter-p13.3	X93036	MAT8; FXYD3 = FXYD domain-containing ion transport regulator 3	PPPPP
	down	46,8	46851275-46851437	19pter-p13.3	U28249	MAT8; FXYD3 = FXYD domain-containing ion transport regulator 3	PPAAA
	down	47,1	47089599-47089721	19q13	AD000684	FIP or USE2 Upstream transcription factor 2	PPPPP
	down	48,1	48134757-48135013	19	X04106	* calpain 4 , calcium dependent protease (small subunit)	PPPPP
	down		not found	19q13.3-q13.4	T73572	NM_000146 FTL ferritin light polypeptide-like 3 , hypothetical protein	PPPPP
D19S220	10	49,9	49975902-49976174				
	down	50,5	50508282-50508382	19q13.1	U16660	ECH1 Delta3,5-Delta2,4-Dienoyl-CoA-Isomerase / HPXEL Peroxisom	PPPPP
	down	52,1	52102936-52103060	19q13.1	D84239	IgG Fc binding protein	PPPPP
	down	53,3	53357635-56108028	19q13.2	X98311	CEACAM7 carcinoembryonic antigen-related cell adhesion molecule 7	PPPPP
	down	53,3	53357635-56108028	19q13.2	AA058357	NM_006890 carcinoembryonic antigen-related cell adhesion molecule	PPPPP
	down	55,1	55137658-55137779	19q13.2	HG2850-HT4814	Biliary Glycoprotein / CEACAM1 carcinoembryonic antigen-related c	PPPPAP
	down	?	not found	19q13.2	R70212	NM_001783 CD79A antigen, isoform 2 precursor, MB-1 membrane gl	PPAAA
	up	?		19q13.2	M29873	cytochrome P450-IIB (hIIB3)	APPPP
	up	?		19q13.2	M12529	* apolipoprotein E ,	PPPPP
D19S420	14	55,7	55729852-55730114				
	down	57,0	57053955-57054084	19q13.2-q13.32	HG4243-HT4513	Znf155 Zinc Finger Protein 155	PAAAA
	down	62,4	62450384-62450551	19q13.3	U52101	EMP3 or YMP Epithelial membrane protein 3	PAAAA
	up			19q13.3-q13.4	AA428964	NM_002776 Kallikrein 10 serine protease-like protease; serine protease	APPPP
	up			19q13.3	AA039439	KIAA0134 Putative ATP-dependent RNA Helicase	AAAPA
D19S571	11	66,3	66359972-66360199	19cen-q13.2			
	down	69,4	69409112-69409255	19q13.4	D15049	PTPRH protein tyrosine phosphatase receptor type II	PPAAA
	up			19q13.4	U14969	* ribosomal protein L28 ,	PPPPP
	down	?	not found	19	AA482127	protein kinase; serin/theronin kinase, related to S. cerevisiae STE20, ef	PPAPP
Chromosome 20							
	down	1,2	1232294-1232419	20p13	AA405715	ST2 syntenin-2 protein	PPPPP
	up	2,3	2397373-2397522	20p13	X17567	snRNP protein B (small nuclear ribonucleoprotein polypeptides B and I	PPPPP
	up	3,7	3741620-3741744	20p13	S78187	CDC25 cell division cycle 25B	APPPP
	up			20p13	Y12065	* EST nucleolar protein hNop56	APPPP
	up	39,6	39635800-39636036	20p12	M15796	PCNA proliferating cell nuclear antigen cyclin protein	AAAAAP
	up			20p12.2-p11.22	M15841	Small nuclear ribonucleoprotein polypeptide B or U2 small nuclear RN	AAAAAP
	up			20p11.2	X54667	tyk2 non-receptor protein tyrosine kinase; HUGO: Cystatin S - CST4	APPPP
	up			20p11.2-11.1	U47025	* glycogen phosphorylase B (brain)	PPPPP
	up			20pter-p12.3	U83246	CPNE1 Copine I	PPPPP
	down		not found	20pter-p12.3	J02854	* 20-kDa myosin light chain (MLC-2)	PPPPP
	up			20pter-q12	M29536	* translation initiation factor 2 beta subunit (eIF-2-beta)	PPPPP
	up			20q12-q13.1	L10343	* protease inhibitor 3, skin-derived (SKALP)	PPPPP
	up			20	U73379	Cyclin-selective ubiquitin carrier protein E2-C	PPPPP
	up			20q12	D79206, D13292,	* syndecan 4 (amphiglycan, ryudocan)	PPPPP
	up	44,4	44411203-44411327	20q12	U48251	Protein kinase C binding protein RACK7	APPPP
	up	47,5	47515462-47515611	20q13	U33286	CAS chromosome segregation gene homolog	PPPPP
	up		not found	20q13.1	X52560	* EST DNA binding protein NF-IL6 (hom. Cebp)	APPPA
	up		not found	20q13.1	HG3494-HT3688	Nuclear Factor NF-IL6 HUGO CEBPB or CEBPD = CCAAT/enhancer I	PPPPP
	up		not found	20q13.1	BE016243	* EST CCAAT/enhancer binding protein (C/EBP), alpha (CEBPA)	
	up	54,7	54781354-54781480	20q13.2-20q13.1	L02547	* CSTF1 cleavage stimulation factor, 3' pre-RNA	APAAA
	up	55,7	55755851-55755955	20p11.23-p11.2	U84720	RAE1 Export protein Rae1	AAAAAP
D20S171	5	56,4	56425329-56425467				
D20S100	19	57,3	57317559-57317770				
	down	59,1	59144338-59144543	20q13.31	L12760	* phosphoenolpyruvate carboxykinase 1	PPAAP
	down	59,1	59144338-59144543	20q13.31	L05144	PCK1 phosphoenolpyruvate carboxykinase	PPPPP
Chromosome 21							
	down	26,3	26366617-26366699	21q21.3	Y00264	* amyloid A4 precursor of Alzheimer's disease	PPPPP
	down	26,3	26366617-26366699	21q21.3	HG3638-HT3849	* Amyloid Beta (A4) Precursor Protein, Alt. Splice 2, A4(751)	PPPAP
D21S263	29	31,3	31334369-31334543				

		down	35,0	35001166-35001285	21q22.12	U28833	DSCR1 Down syndrome critical region protein	PPPPA
D21S1252	16		36,9	36939066-36939302				
D21S266	21		41,7	41793638-41793794				
		down	44,2	44285010-44285113	21q22	D15050	TCF8 transcription factor 8 / transcription factor AREB6	PPAPP
		down	41,1	41096756-47588212	21q22.3	X52003	BCE1 / TFF1 Trefoil factor 1	PPPPP
		up			21q22.3	U52969	PEP19 (PCP4) Purkinje cell protein 4	APAAA
Chromosome 22								
		down	16,1	16158463-20896156	22q11.21	W86850	CTP mitochondrial citrate transporter, solute carrier family 20, SLC20	PPPPA
		up	16,9	16996397-16996675	22q11.2	Z26491	Catechol O-methyltransferase	PPPPP
		up	20,9	20922208-20922441	22q11.2	X57766	Stromelysin-3 / matrix metalloproteinase 11 STMY3	APPPP
D22S315	24		22,0	22049208-22049400				
		down	32,7	32746818-32746973	22q13.1	U78678	Thioredoxin	PPPAP
		down	33,2	33290102-33290212	22q11.2-qter	D87292	TST Thiosulfate sulfurtransferase (Rhodanese)	PPPPP
		down	33,8	33849318-33849540	22q13.1	M87860	LGALS2 S-lac lectin L-14-II	PAAAA
		up			22q12.1-q12.3	X73460	* ribosomal protein L3	PPPPP
Chromosome X								
		down	32,1	32102482-32102677	Xp11	L10373	* (clone CCG-B7) transmembrane 4 superfamily	PPAAP
		down	43,3	43362069-48702225	Xp11.23	D59847	NM_013271 proSAAS granin-like neuroendocrine peptide precursor	PPAPP
DXS1060	25		48,8	4885448-4885593				
		up			Xq13.1-q13.3	Y08915	* immunoglobulin (CD79A) binding protein 1, alpha 4 protein;	PPPPP
		down	?	not found	Xq21.3-q22	H59052	Thymosin beta-4 TMSB4 TB4X PTMB4	PPPPP
		down	106,7	106702532-106702668	Xq24-q25	M74524	* HHR6A (yeast RAD 6 homologue) ,	PPPPP
DXS1001	36		107,8	107820118-107820323				
		up	134,6	134571938-142261763	Xq28	X92896	ITBA2 protein	APPPP
		up	142,7	142779805-142780098	Xq27.1	X69962	* FMR-1 fragile X mental retardation 1	APAAA
DXS8091	27		143,4	143402266-143402368				
		up	149,2	149257477-149257712	Xq28	L76191	IRAK1 Interleukin-1 receptor-associated kinase	PPPPP
DXS1073	18		149,7	149735792-149736012				

^a Microsatellite Marker

^b Loss of heterozygosity given as percentage of LOH found in 55 finnish sporadic CRC samples for a microsatellite marker closest to the EST or gene

^c Expression change (up- or down regulation)

^d megabases from p-arm

^e Gene position in nucleotides from the p-arm of the chromosome

^f Genes not selected as candidates

^g The expression pattern of tissues Normal, A, B, C and D using A for absent and P for present