

Progressive Disease Signature		
Upregulated probes with progressive disease		
U133Plus2 ID	Gene Symbol	Gene Name
239673_at	NR3C2	nuclear receptor subfamily 3, group C, member 2
228994_at	CCDC24	coiled-coil domain containing 24
1562245_a_at	ZNF578	zinc finger protein 578
234224_at	PTPRG	protein tyrosine phosphatase, receptor type, G
219173_at	NA	NA
218613_at	PSD3	pleckstrin and Sec7 domain containing 3
236167_at	TNS3	tensin 3
1562244_at	ZNF578	zinc finger protein 578
221909_at	RNFT2	ring finger protein, transmembrane 2
1552732_at	ABRA	actin-binding Rho activating protein
59375_at	MYO15B	myosin XVb pseudogene
203633_at	CPT1A	carnitine palmitoyltransferase 1A (liver)
1563120_at	NA	NA
1560098_at	AKR1C2	aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding pr
238576_at	NA	NA
202283_at	SERPINF1	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), r
214248_s_at	TRIM2	tripartite motif-containing 2
204766_s_at	NUDT1	nudix (nucleoside diphosphate linked moiety X)-type motif 1
242308_at	MCOLN3	mucolipin 3
1569154_a_at	NA	NA
228171_s_at	PLEKHG4	pleckstrin homology domain containing, family G (with RhoGef domain) member 4
1552587_at	CNBD1	cyclic nucleotide binding domain containing 1
220705_s_at	ADAMTS7	ADAM metalloproteinase with thrombospondin type 1 motif, 7
232332_at	RP13-347D8.3	KIAA1210 protein
1553618_at	TRIM43	tripartite motif-containing 43
209369_at	ANXA3	annexin A3
243143_at	FAM24A	family with sequence similarity 24, member A
234742_at	SIRPG	signal-regulatory protein gamma
229628_s_at	KIAA1529	KIAA1529
234600_at	MTM1	myotubularin 1
216882_s_at	NEBL	nebullette
234934_at	C20orf74	chromosome 20 open reading frame 74
1562562_at	FLJ40759	hypothetical gene supported by AK098078
227182_at	SUSD3	sushi domain containing 3
206774_at	FRMPD1	FERM and PDZ domain containing 1
224223_s_at	PDE11A	phosphodiesterase 11A
212772_s_at	ABCA2	ATP-binding cassette, sub-family A (ABC1), member 2
233478_at	PLCXD2	phosphatidylinositol-specific phospholipase C, X domain containing 2
203658_at	SLC25A20	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20
234725_s_at	SEMA4B	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplas
244859_at	PDE4DIP	phosphodiesterase 4D interacting protein (myomegalin)
217914_at	TPCN1	two pore segment channel 1
1553123_at	WDR62	WD repeat domain 62
208253_at	SIGLEC8	sialic acid binding Ig-like lectin 8
217312_s_at	COL7A1	collagen, type VII, alpha 1 (epidermolysis bullosa, dystrophic, dominant and recessive)
215302_at	LOC257152	hypothetical protein LOC257152
1561154_at	GBF1	golgi-specific brefeldin A resistance factor 1
232766_at	BANF2	barrier to autointegration factor 2
206699_x_at	NPAS1	neuronal PAS domain protein 1
232756_at	KALRN	kalirin, RhoGEF kinase
242500_at	NA	NA
1560043_at	CYB5R1	cytochrome b5 reductase 1
207082_at	CSF1	colony stimulating factor 1 (macrophage)
214339_s_at	MAP4K1	mitogen-activated protein kinase kinase kinase kinase 1
216917_s_at	SYCP1	synaptonemal complex protein 1
1553209_at	RNFT2	ring finger protein, transmembrane 2
230640_at	PRPF40B	PRP40 pre-mRNA processing factor 40 homolog B (S. cerevisiae)
218369_s_at	EXOSC1	exosome component 1
207848_at	AVP	arginine vasopressin (neurophysin II, antidiuretic hormone, diabetes insipidus, neurohypophy
231937_at	NA	NA
218153_at	CARS2	cysteinyI-tRNA synthetase 2, mitochondrial (putative)
209500_x_at	TNFSF13	tumor necrosis factor (ligand) superfamily, member 13
220998_s_at	UNC93B1	unc-93 homolog B1 (C. elegans)
218908_at	ASPSCR1	alveolar soft part sarcoma chromosome region, candidate 1
219577_s_at	ABCA7	ATP-binding cassette, sub-family A (ABC1), member 7
635_s_at	PPP2R5B	protein phosphatase 2, regulatory subunit B', beta isoform
226959_at	LOC283070	hypothetical protein LOC283070
1557682_a_at	RP11-297H3.4	hypothetical protein LOC284688
236295_s_at	NLRC3	NLR family, CARD domain containing 3
237917_at	NBPF8	neuroblastoma breakpoint family, member 8

225704_at	KIAA1545	KIAA1545 protein	
229597_s_at	WDFY4	WDFY family member 4	
202205_at	VASP	vasodilator-stimulated phosphoprotein	
203181_x_at	SRPK2	SFRS protein kinase 2	
202765_s_at	FBN1	fibrillin 1	
221240_s_at	B3GNT4	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 4	
207522_s_at	ATP2A3	ATPase, Ca++ transporting, ubiquitous	
204919_at	PRR4	proline rich 4 (lacrimal)	
208138_at	GAST	gastrin	
209413_at	B4GALT2	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2	
213036_x_at	ATP2A3	ATPase, Ca++ transporting, ubiquitous	
209765_at	ADAM19	ADAM metalloproteinase domain 19 (meltrin beta)	
222268_x_at	MUC5B	mucin 5B, oligomeric mucus/gel-forming	
207250_at	SIX6	SIX homeobox 6	
218654_s_at	MRPS33	mitochondrial ribosomal protein S33	
1554205_s_at	ICA1L	islet cell autoantigen 1,69kDa-like	
207825_s_at	GHRHR	growth hormone releasing hormone receptor	
40569_at	MZF1	myeloid zinc finger 1	
220371_s_at	SLC12A9	solute carrier family 12 (potassium/chloride transporters), member 9	
209166_s_at	MAN2B1	mannosidase, alpha, class 2B, member 1	
213402_at	ZNF787	zinc finger protein 787	
234359_at	NA	NA	
211036_x_at	ANAPC5	anaphase promoting complex subunit 5	
221080_s_at	DENND1C	DENN/MADD domain containing 1C	
229572_at	NA	NA	
90610_at	LRCH4	leucine-rich repeats and calponin homology (CH) domain containing 4	
221056_x_at	EPS15L1	epidermal growth factor receptor pathway substrate 15-like 1	
213947_s_at	NUP210	nucleoporin 210kDa	
219486_at	DUS2L	dihydrouridine synthase 2-like, SMM1 homolog (S. cerevisiae)	
209650_s_at	TBC1D22A	TBC1 domain family, member 22A	
214246_x_at	MINK1	misshapen-like kinase 1 (zebrafish)	
239855_at	PPM1L	protein phosphatase 1 (formerly 2C)-like	
214426_x_at	CHAF1A	chromatin assembly factor 1, subunit A (p150)	
218052_s_at	ATP13A1	ATPase type 13A1	
217729_s_at	AES	amino-terminal enhancer of split	
218387_s_at	PGLS	6-phosphogluconolactonase	
218220_at	C12orf10	chromosome 12 open reading frame 10	
1562449_s_at	LARGE	like-glycosyltransferase	
Downregulated probes with progressive disease			
U133Plus2 ID	Gene Symbol	Gene Name	
225386_s_at	HNRPLL	heterogeneous nuclear ribonucleoprotein L-like	
228530_at	RP11-11C5.2	similar to RIKEN cDNA 2410129H14	
237897_at	ADAM17	ADAM metalloproteinase domain 17 (tumor necrosis factor, alpha, converting enzyme)	
1566973_at	NA	NA	
233316_at	MKLN1	muskelin 1, intracellular mediator containing kelch motifs	
1555227_a_at	MANEA	mannosidase, endo-alpha	
223579_s_at	APOB	apolipoprotein B (including Ag(x) antigen)	
221276_s_at	SYNC1	syncoilin, intermediate filament 1	
232230_at	C10orf75	chromosome 10 open reading frame 75	
216047_x_at	SEZ6L	seizure related 6 homolog (mouse)-like	
209532_at	PLAA	phospholipase A2-activating protein	
238552_at	SRPK2	SFRS protein kinase 2	
1559990_at	LOC283070	hypothetical protein LOC283070	
202063_s_at	SEL1L	sel-1 suppressor of lin-12-like (C. elegans)	
1570441_at	NAPB	N-ethylmaleimide-sensitive factor attachment protein, beta	
204898_at	SAP30	Sin3A-associated protein, 30kDa	
219858_s_at	FLJ20160	FLJ20160 protein	
239172_x_at	MDFIC	MyoD family inhibitor domain containing	
226187_at	CDS1	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 1	
206265_s_at	GPLD1	glycosylphosphatidylinositol specific phospholipase D1	
229411_at	PNCK	pregnancy upregulated non-ubiquitously expressed CaM kinase	
211514_at	RIPK5	receptor interacting protein kinase 5	
220302_at	MAK	male germ cell-associated kinase	
1560161_at	CCNB2	cyclin B2	
221936_x_at	MRPL41	mitochondrial ribosomal protein L41	
224274_at	FSCB	fibrous sheath CABYR binding protein	
217594_at	ZCCHC11	zinc finger, CCHC domain containing 11	
231869_at	ZNF451	zinc finger protein 451	
239729_at	NA	NA	
222901_s_at	KCNJ16	potassium inwardly-rectifying channel, subfamily J, member 16	
212675_s_at	CEP68	centrosomal protein 68kDa	
233556_at	CRYBB2P1	crystallin, beta B2 pseudogene 1	

Chlorambucil Signature		
Upregulated probes with chlorambucil resistance		
U133A ID	Gene Symbol	Gene Name
200606_at	DSP	desmoplakin
200627_at	PTGES3	prostaglandin E synthase 3 (cytosolic)
200708_at	GOT2	glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2)
200860_s_at	CNOT1	CCR4-NOT transcription complex, subunit 1
200861_at	CNOT1	CCR4-NOT transcription complex, subunit 1
201015_s_at	JUP	junction plakoglobin
201499_s_at	USP7	ubiquitin specific peptidase 7 (herpes virus-associated)
201596_x_at	KRT18	keratin 18
201839_s_at	TACSTD1	tumor-associated calcium signal transducer 1
201872_s_at	ABCE1	ATP-binding cassette, sub-family E (OABP), member 1
201873_s_at	ABCE1	ATP-binding cassette, sub-family E (OABP), member 1
202107_s_at	MCM2	MCM2 minichromosome maintenance deficient 2, mitotin (<i>S. cerevisiae</i>)
202521_at	CTCF	CCCTC-binding factor (zinc finger protein)
202560_s_at	C1orf77	chromosome 1 open reading frame 77
202790_at	CLDN7	claudin 7
202890_at	MAP7	microtubule-associated protein 7
203209_at	RFC5	replication factor C (activator 1) 5, 36.5kDa
203219_s_at	APRT	adenine phosphoribosyltransferase
203244_at	PEX5	peroxisomal biogenesis factor 5
203407_at	PPL	periplakin
203713_s_at	LLGL2	lethal giant larvae homolog 2 (<i>Drosophila</i>)
203837_at	MAP3K5	mitogen-activated protein kinase kinase kinase 5
203953_s_at	CLDN3	claudin 3
203954_x_at	CLDN3	claudin 3
204679_at	KCNK1	potassium channel, subfamily K, member 1
205768_s_at	SLC27A2	solute carrier family 27 (fatty acid transporter), member 2
205769_at	SLC27A2	solute carrier family 27 (fatty acid transporter), member 2
205909_at	POLE2	polymerase (DNA directed), epsilon 2 (p59 subunit)
206687_s_at	PTPN6	protein tyrosine phosphatase, non-receptor type 6
207717_s_at	PKP2	plakophilin 2
208714_at	NDUFV1	NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa
209008_x_at	KRT8	keratin 8
209016_s_at	KRT7	keratin 7
209260_at	SFN	stratifin
209323_at	PRKRIR	protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P
209759_s_at	DCI	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)
209784_s_at	JAG2	jagged 2
209832_s_at	CDT1	chromatin licensing and DNA replication factor 1
209873_s_at	PKP3	plakophilin 3
210150_s_at	LAMA5	laminin, alpha 5
210715_s_at	SPINT2	serine peptidase inhibitor, Kunitz type, 2
211376_s_at	C10orf86	chromosome 10 open reading frame 86
212316_at	NUP210	nucleoporin 210kDa
212443_at	NBEAL2	neurobeachin-like 2
212925_at	C19orf21	chromosome 19 open reading frame 21
213892_s_at	APRT	adenine phosphoribosyltransferase
213913_s_at	KIAA0984	NA
213929_at	NA	NA
214734_at	EXPH5	exophilin 5
215243_s_at	GJB3	gap junction protein, beta 3, 31kDa (connexin 31)
215747_s_at	RCC1	regulator of chromosome condensation 1
217872_at	NOP17	NOP17
218101_s_at	NDUFC2	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2, 14.5kDa
218416_s_at	FLJ20489	NA
218493_at	C16orf33	chromosome 16 open reading frame 33
218768_at	NUP107	nucleoporin 107kDa
218966_at	MYO5C	myosin VC
219067_s_at	C10orf86	chromosome 10 open reading frame 86
219084_at	NSD1	nuclear receptor binding SET domain protein 1
219395_at	RBM35B	RNA binding motif protein 35B
219467_at	FLJ20125	NA
219562_at	RAB26	RAB26, member RAS oncogene family
219580_s_at	TMC5	transmembrane channel-like 5
219707_at	CPNE7	copine VII
219709_x_at	C16orf24	chromosome 16 open reading frame 24
220035_at	NUP210	nucleoporin 210kDa
220175_s_at	CBWD2	COBW domain containing 2
220520_s_at	NUP62CL	nucleoporin 62kDa C-terminal like
221521_s_at	GINS2	GINS complex subunit 2 (Psf2 homolog)
221622_s_at	TMEM126B	transmembrane protein 126B

31846_at	RHOD	ras homolog gene family, member D	
32137_at	JAG2	jagged 2	
33322_i_at	SFN	stratifin	
33323_r_at	SFN	stratifin	
37117_at	ARHGAP8	Rho GTPase activating protein 8	
60474_at	C20orf42	chromosome 20 open reading frame 42	
89948_at	C20orf67	chromosome 20 open reading frame 67	
Downregulated probes with chlorambucil resistance			
U133A ID	Gene Symbol	Gene Name	
160020_at	MMP14	matrix metalloproteinase 14 (membrane-inserted)	
200096_s_at	ATP6V0E	ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e	
200665_s_at	SPARC	secreted protein, acidic, cysteine-rich (osteonectin)	
200755_s_at	CALU	calumenin	
200756_x_at	CALU	calumenin	
200757_s_at	CALU	calumenin	
200787_s_at	PEA15	phosphoprotein enriched in astrocytes 15	
200788_s_at	PEA15	phosphoprotein enriched in astrocytes 15	
201069_at	MMP2	matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)	
201393_s_at	IGF2R	insulin-like growth factor 2 receptor	
201615_x_at	CALD1	caldesmon 1	
201616_s_at	CALD1	caldesmon 1	
201617_x_at	CALD1	caldesmon 1	
201744_s_at	LUM	lumican	
201809_s_at	ENG	endoglin (Osler-Rendu-Weber syndrome 1)	
202124_s_at	TRAK2	trafficking protein, kinesin binding 2	
202440_s_at	ST5	suppression of tumorigenicity 5	
202827_s_at	MMP14	matrix metalloproteinase 14 (membrane-inserted)	
202828_s_at	MMP14	matrix metalloproteinase 14 (membrane-inserted)	
203603_s_at	ZFX1B	zinc finger homeobox 1b	
203827_at	WIPI1	WD repeat domain, phosphoinositide interacting 1	
204823_at	NAV3	neuron navigator 3	
204881_s_at	UGCG	UDP-glucose ceramide glucosyltransferase	
204955_at	SRPX	sushi-repeat-containing protein, X-linked	
205173_x_at	CD58	CD58 molecule	
205717_x_at	PCDHGC3	protocadherin gamma subfamily C, 3	
206070_s_at	EPHA3	EPH receptor A3	
207431_s_at	DEGS1	degenerative spermatocyte homolog 1, lipid desaturase (Drosophila)	
207749_s_at	PPP2R3A	protein phosphatase 2 (formerly 2A), regulatory subunit B'', alpha	
208475_at	FRMD4A	FERM domain containing 4A	
208682_s_at	MAGED2	melanoma antigen family D, 2	
208960_s_at	KLF6	Kruppel-like factor 6	
209079_x_at	PCDHGA1	protocadherin gamma subfamily A, 1	
209420_s_at	SMPD1	sphingomyelin phosphodiesterase 1, acid lysosomal (acid sphingomyelinase)	
209721_s_at	HOM- TES -103	NA	
209859_at	TRIM9	tripartite motif-containing 9	
211066_x_at	PCDHGC3	protocadherin gamma subfamily C, 3	
211744_s_at	CD58	CD58 molecule	
211876_x_at	PCDHGA11	protocadherin gamma subfamily A, 11	
212077_at	CALD1	caldesmon 1	
212119_at	RHOQ	ras homolog gene family, member Q	
212120_at	PIGF	phosphatidylinositol glycan anchor biosynthesis, class F	
212122_at	PIGF	phosphatidylinositol glycan anchor biosynthesis, class F	
212667_at	SPARC	secreted protein, acidic, cysteine-rich (osteonectin)	
213002_at	MARCKS	myristoylated alanine-rich protein kinase C substrate	
213069_at	HEG1	HEG homolog 1 (zebrafish)	
213627_at	MAGED2	melanoma antigen family D, 2	
213831_at	HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1	
213836_s_at	WIPI1	WD repeat domain, phosphoinositide interacting 1	
214845_s_at	CALU	calumenin	
214880_x_at	CALD1	caldesmon 1	
215836_s_at	PCDHGC3	protocadherin gamma subfamily C, 3	
216942_s_at	CD58	CD58 molecule	
217943_s_at	RPRC1	arginine/proline rich coiled-coil 1	
218088_s_at	RRAGC	Ras-related GTP binding C	
218376_s_at	MICAL1	microtubule associated monooxygenase, calponin and LIM domain containing 1	
218700_s_at	RAB7L1	RAB7, member RAS oncogene family-like 1	
219257_s_at	SPHK1	sphingosine kinase 1	
220254_at	LRP12	low density lipoprotein-related protein 12	
222288_at	PPP4R2	protein phosphatase 4, regulatory subunit 2	
44702_at	SYDE1	synapse defective 1, Rho GTPase, homolog 1 (C. elegans)	
58780_s_at	FLJ10357	NA	

Pentostatin, Cyclophosphamide, and Rituximab (PCR) Signature		
Upregulated probes with PCR resistance (early progression)		
U133A ID	Gene Symbol	Gene Name
201014_s_at	PAICS	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide
201063_at	RCN1	reticulocalbin 1, EF-hand calcium binding domain
201427_s_at	SEPP1	selenoprotein P, plasma, 1
202306_at	POLR2G	polymerase (RNA) II (DNA directed) polypeptide G
202737_s_at	LSM4	LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae)
203756_at	ARHGEF17	Rho guanine nucleotide exchange factor (GEF) 17
204223_at	PRELP	proline/arginine-rich end leucine-rich repeat protein
204431_at	TLE2	transducin-like enhancer of split 2 (E(sp1) homolog, Drosophila)
204985_s_at	TRAPPC6A	trafficking protein particle complex 6A
205549_at	PCP4	Purkinje cell protein 4
206030_at	ASPA	aspartoacylase (Canavan disease)
206162_x_at	SYT5	synaptotagmin V
206548_at	FLJ23556	NA
206602_s_at	HOXD3	homeobox D3
207337_at	CTAG2	cancer/testis antigen 2
208526_at	OR2F1	olfactory receptor, family 2, subfamily F, member 1
209398_at	HIST1H1C	histone 1, H1c
209971_x_at	JTV1	NA
210997_at	HGF	hepatocyte growth factor (hepapoietin A; scatter factor)
211135_x_at	LILRB3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3
211153_s_at	TNFSF11	tumor necrosis factor (ligand) superfamily, member 11
211416_x_at	GGTLA4	gamma-glutamyltransferase-like activity 4
212736_at	C16orf45	chromosome 16 open reading frame 45
213569_at	VASH1	vasohibin 1
213610_s_at	KLHL23	kelch-like 23 (Drosophila)
215242_at	PIGC	phosphatidylinositol glycan anchor biosynthesis, class C
216352_x_at	PCDHGA3	protocadherin gamma subfamily A, 3
217490_at	NA	NA
218977_s_at	TRSPAP1	tRNA selenocysteine associated protein 1
219536_s_at	ZFP64	zinc finger protein 64 homolog (mouse)
220365_at	ALLC	allantoicase
220920_at	ATP10B	ATPase, Class V, type 10B
221057_at	SPATA1	spermatogenesis associated 1
222210_at	CASKIN2	CASK interacting protein 2
32625_at	NPR1	natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A)
Downregulated probes with PCR resistance (early progression)		
U133A ID	Gene Symbol	Gene Name
201440_at	DDX23	DEAD (Asp-Glu-Ala-Asp) box polypeptide 23
204647_at	HOMER3	homer homolog 3 (Drosophila)
205405_at	SEMA5A	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain
205527_s_at	GEMIN4	gem (nuclear organelle) associated protein 4
206006_s_at	KIAA1009	KIAA1009
206172_at	IL13RA2	interleukin 13 receptor, alpha 2
206233_at	B4GALT6	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6
206798_x_at	DLEC1	deleted in lung and esophageal cancer 1
207016_s_at	ALDH1A2	aldehyde dehydrogenase 1 family, member A2
207324_s_at	DSC1	desmocollin 1
208537_at	EDG5	endothelial differentiation, sphingolipid G-protein-coupled receptor, 5
210375_at	PTGER3	prostaglandin E receptor 3 (subtype EP3)
210407_at	PPM1A	protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform
210745_at	ONECUT1	one cut domain, family member 1
211195_s_at	TP73L	tumor protein p73-like
214514_at	MCM3AP	MCM3 minichromosome maintenance deficient 3 (S. cerevisiae) associated protein
214619_at	CRHR1	corticotropin releasing hormone receptor 1
215238_s_at	DOCK9	dedicator of cytokinesis 9
215922_at	REPS1	RALBP1 associated Eps domain containing 1
216146_at	NA	NA
216536_at	OR7E19P	olfactory receptor, family 7, subfamily E, member 19 pseudogene
216749_at	TRERF1	transcriptional regulating factor 1
220870_at	NA	NA
220906_at	NA	NA
221104_s_at	NIPSNAP3B	nipsnap homolog 3B (C. elegans)