

LOCUS NM_001557 2880 bp mRNA
 DEFINITION Homo sapiens chemokine (C-X-C motif) receptor 2 (CXCR2), transcript variant 1, mRNA.
 ACCESSION NM_001557
 VERSION NM_001557.3 GI:269973857

Protein sequence: "MEDFNMESDSFEDFWKGEDLSNYSYSTLPFFLLDAAPCEPESL
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ORIGIN

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Figure 1

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Figure 1 (cont)

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Figure 1 (cont)

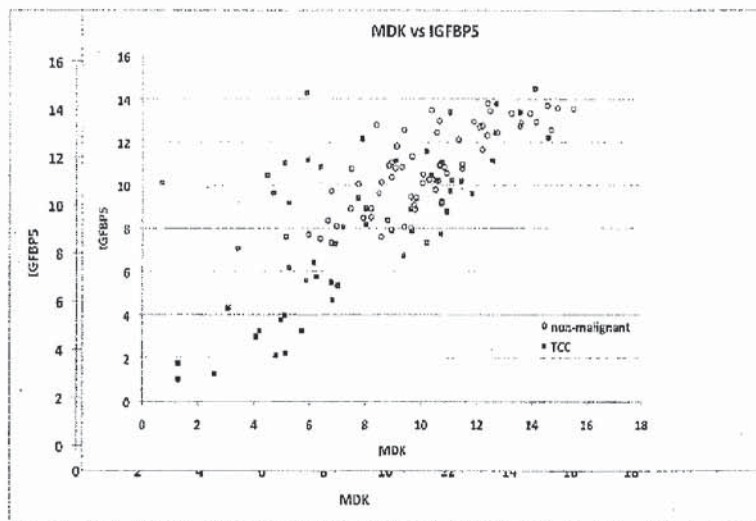


Fig. 2a

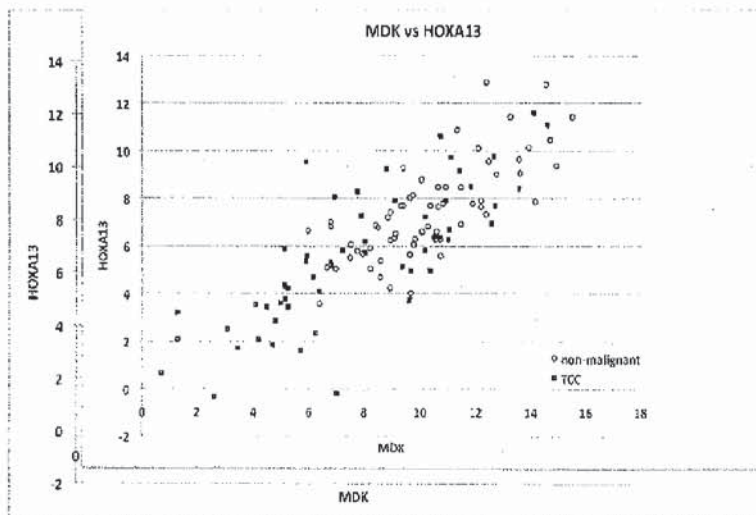


Fig. 2b

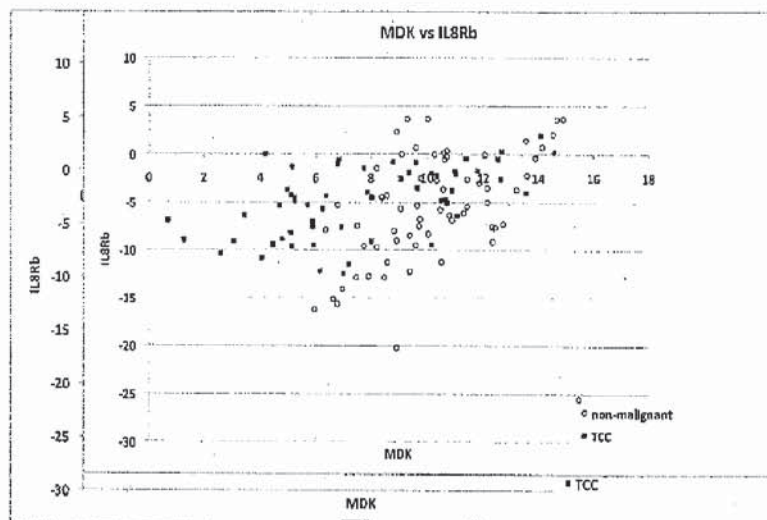


Fig. 2c

Figure 2.

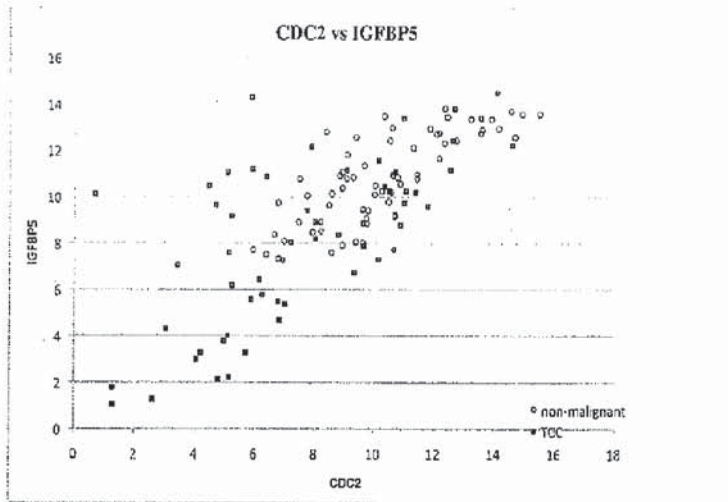


Fig. 2d

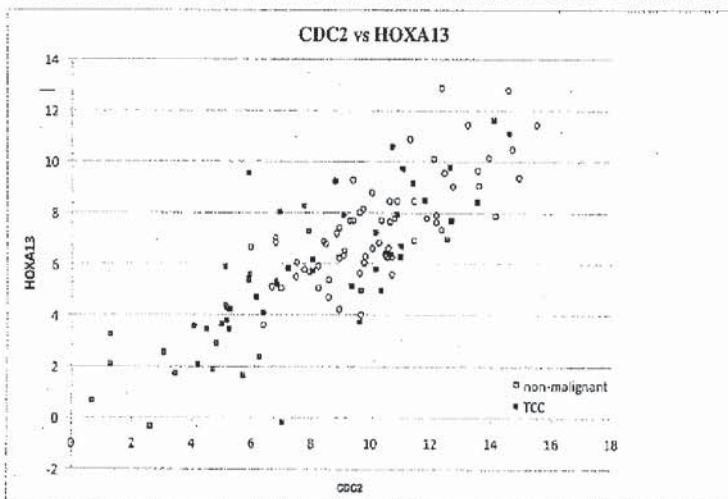


Fig. 2e

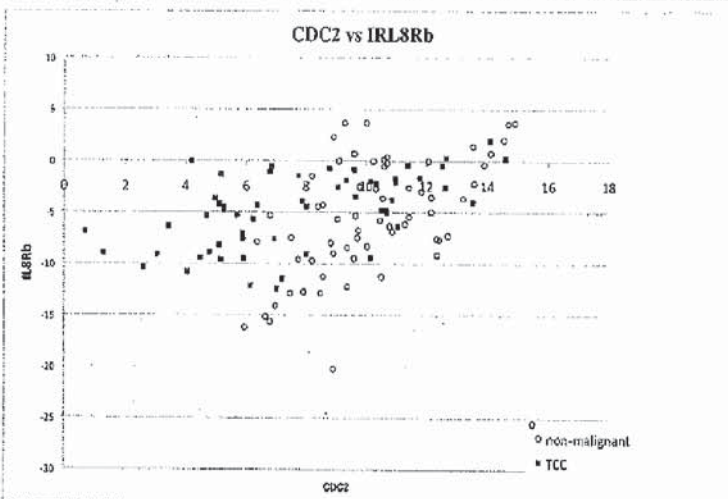


Fig. 2f

Figure 2 cont.

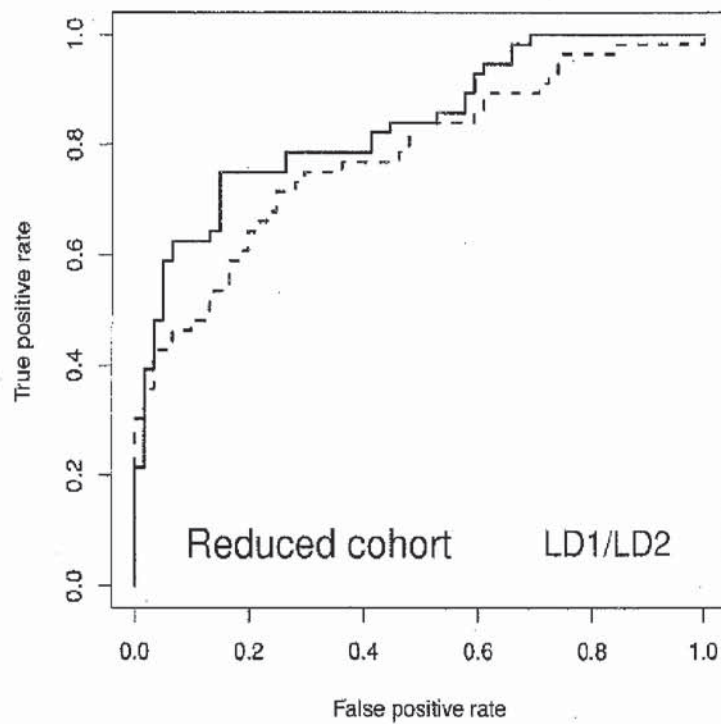


Fig. 3a

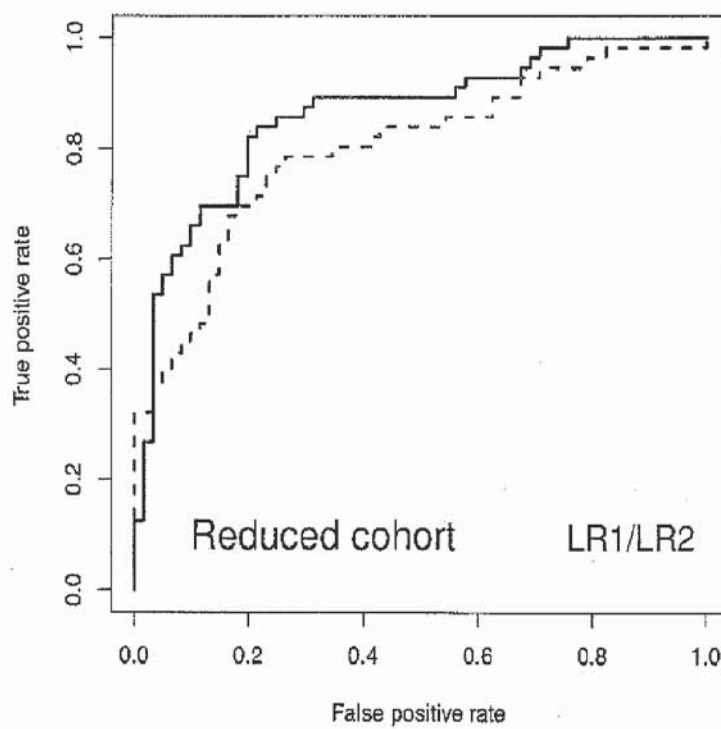


Fig. 3b

Figure 3a-b.

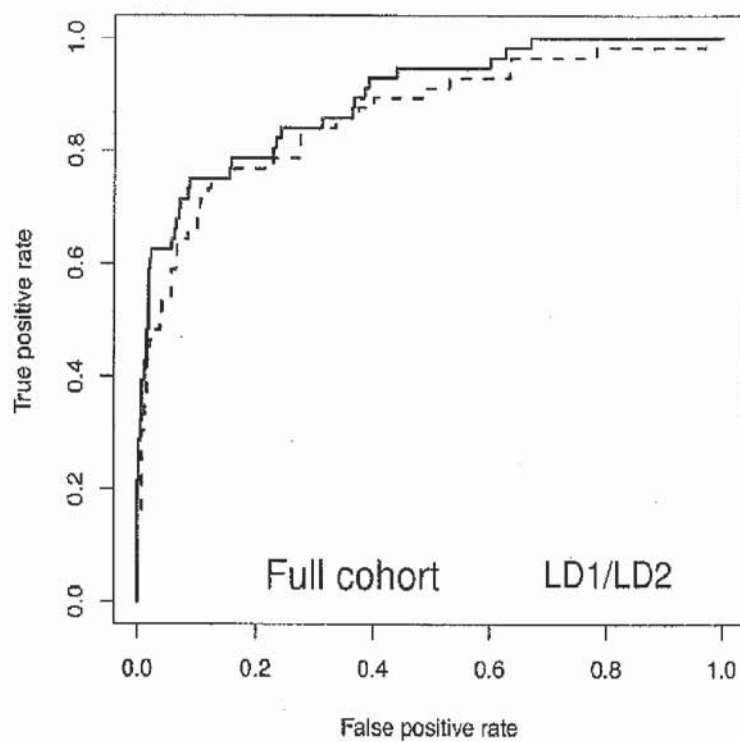


Fig. 4a

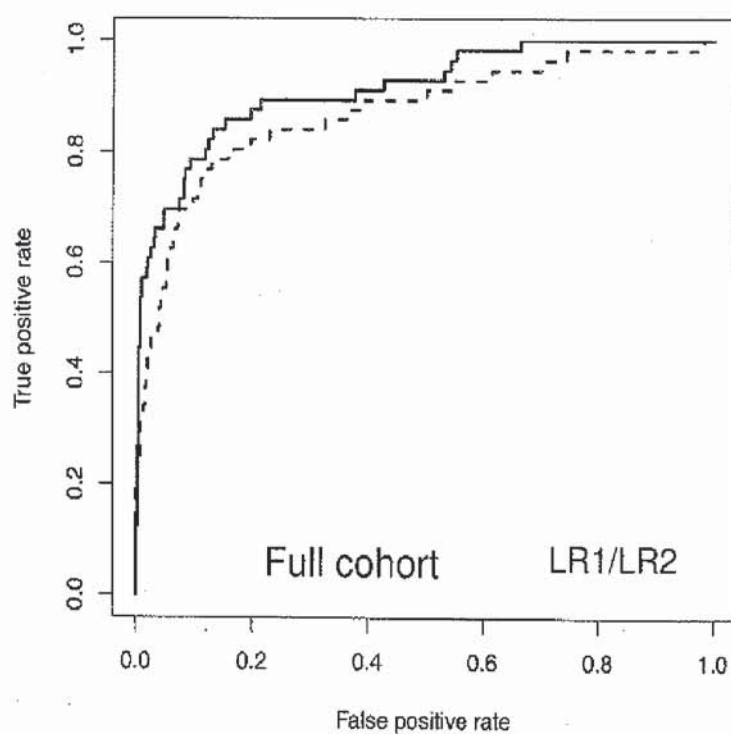


Fig. 4b

Figure 4a-b.

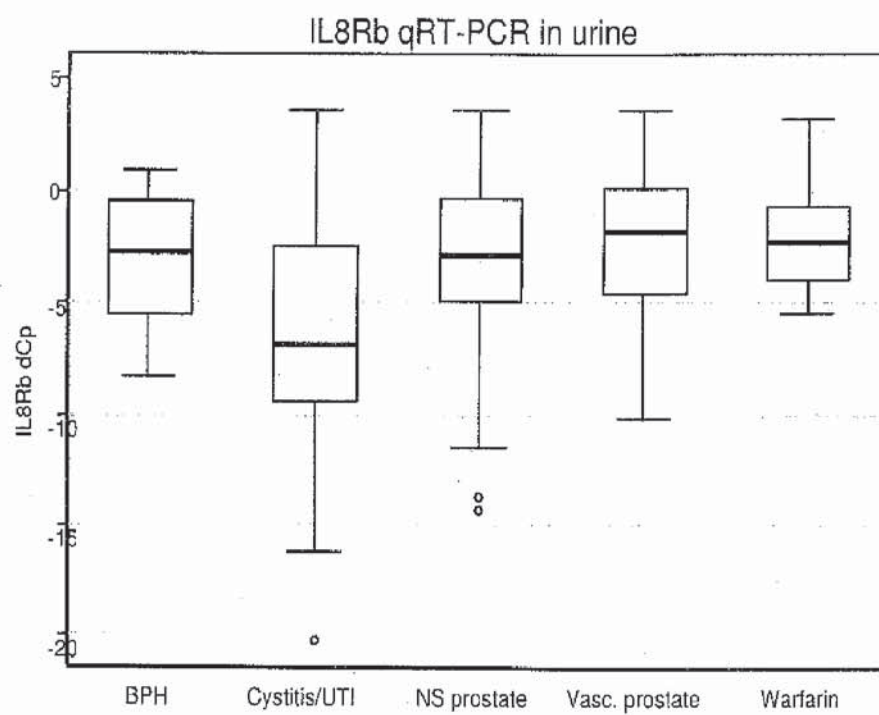


Figure 5.

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
ras homolog gene family, member B (RHOB), mRNA	NP_004031.1	NM_004040.2	mwghuman3 OK#A:08114	-2.684592	2.13794E- 10	2.25758E- 09	-10.53678	38	8789.5	4176	23
hypothetical protein FLJ21511 (FLJ21511), mRNA	NP_079363.1	NM_025087.1	mwghuman3 OK#A:00410	-2.080908	2.54894E- 11	3.22908E- 08	-6.925773	68	14455	9272.5	0
paired box gene 8 (PAX8), transcript variant PAX8A, mRNA	NP_003457.1	NM_003466.3	mwghuman3 OK#B:3648	-1.961896	4.71674E- 11	4.07014E- 08	-6.806281	82	19419	12999.5	0
UPF3 regulator of nonsense transcripts homolog A (yeast) (UPF3A), transcript variant 1, mRNA	NP_075387.1	NM_023011.2	mwghuman3 OK#A:06295	-3.84007	1.03703E- 13	3.34027E- 08	-7.811653	96.5	5663.5	1825	0
leukotriene B4 12- hydroxydehydr ogenase (LTB4DH), mRNA	NP_036344.1	NM_012212.2	mwghuman3 OK#B:8686	-5.034613	3.08873E- 10	1.41836E- 07	-6.436167	122.5	11340.5	3138	0

Figure 6

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
RAB11 family interacting protein 2 (class I) (RAB11FIP2), mRNA	NP_055719.1	NM_014904.1	mwghuman3 OK#A:10479	-1.993629	4.57925E- 09	5.83951E- 08	-7.711624	156	19636.5	12951	0
TSC22 domain family, member 1 (TSC22D1), transcript variant 2, mRNA	NP_006013.1	NM_006022.2	mwghuman3 OK#A:00577	-2.133065	1.12033E- 07	1.8543E- 07	-7.698568	156.5	8415	6130	1
sulfite oxidase (SUOX), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA	NP_000447.2	NM_000456.2	mwghuman3 OK#A:05512	-1.622803	4.52404E- 10	5.29156E- 09	-6.728892	223	11312.5	8789.5	0
tetratricopeptid e repeat domain 21A (TTC21A), mRNA	NP_665698.1	NM_145755.1	mwghuman3 OK#B:6976	-2.976809	2.11314E- 07	4.28806E- 07	-6.286432	225	8375.5	3870.5	1

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
RAS p21 protein activator (GTPase activating protein) 1 (RASA1), transcript variant 2, mRNA	NP_072179.1	NM_022650.1	mwghuman3 OK#A:08292	-1.947454	3.74564E- 09	2.68048E- 06	-5.99299	235	6895.5	5277.5	7
ensembl gensecan prediction		AC024384.3.1 07975.119435 .1	mwghuman3 OK#C:6641	-2.471322	4.47058E- 08	1.54585E- 06	-6.085076	255.5	3327.5	1537	
ensembl gensecan prediction		AL031669.28. 1.94224.1	mwghuman3 OK#C:0930	-1.774123	6.77812E- 09	1.13272E- 06	-5.56116	288.5	4367	3218	
geminin, DNA replication inhibitor (GMNN), mRNA	NP_056979.1	NM_015895.3	mwghuman3 OK#A:03435	-2.046753	1.94846E- 07	4.07898E- 06	-5.99032	311	11844	8413.75	2
fatty acid binding protein 1, liver (FABP1), mRNA	NP_001434.1	NM_001443.1	mwghuman3 OK#A:09506	-1.985247	2.20148E- 06	6.83453E- 07	-6.750782	312.5	25595	19500.75	0
v-jun sarcoma virus 17 oncogene homolog (avian) (JUN), mRNA	NP_002219.1	NM_002228.3	mwghuman3 OK#A:04848	-3.222311	6.2171E- 07	4.59274E- 06	-6.383849	318.5	12139	5321.5	11

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
transmembran e and coiled- coil domains 4 (TMCO4), mRNA	NP_859070.2	NM_181719.2	mwghuman3 OK#B:3094	-1.799143	8.41415E- 09	3.21175E- 06	-5.702577	322.5	4584.5	3158	5
ensembl gensecan prediction		AP002080.2.3 7398.74587.1	mwghuman3 OK#C:4035	-1.860121	5.75299E- 08	1.01121E- 07	-7.300326	332.5	4972.5	2643	
synaptotagmin- like 2 (SYTL2), transcript variant b, mRNA	NP_115755.2	NM_032379.3	mwghuman3 OK#B:9411	-2.343357	4.07526E- 10	9.87494E- 09	-7.998821	342	19920	12053.5	0
cyclin G1 (CCNG1), transcript variant 1, mRNA	NP_004051.1	NM_004060.3	mwghuman3 OK#B:5261	-1.83737	2.79204E- 08	4.64998E- 07	-6.214776	365	9269.5	4453	7
F-box protein 34 (FBXO34), mRNA	NP_060413.2	NM_017943.2	mwghuman3 OK#B:4885	-1.801846	1.15594E- 06	1.13272E- 06	-7.165506	365.5	17957.5	13192.75	5
hypothetical protein xp_097916 loc150582		XM_097916	mwghuman3 OK#B:6228	-2.291304	2.69775E- 08	3.84322E- 06	-5.299383	375	3591	1276	
RNA pseudouridylat e synthase domain containing 4 (RPUSD4), mRNA	NP_116184.1	NM_032795.1	mwghuman3 OK#B:6888	-1.588438	2.0145E- 10	1.14227E- 08	-8.404434	407	15747.5	11247	5

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
WD repeat domain 33 (WDR33), transcript variant 2, mRNA	NP_0010066 23.1	NM_0010066 22.1	mwghuman3 OK#A:08115	-1.765322	1.47232E- 07	1.45307E- 06	-6.190057	413	14876	13787.5	8
FLJ20859 gene (FLJ20859), transcript variant 1, mRNA	NP_0010251 62.1	NM_0010299 91.1	mwghuman3 OK#A:10470	-1.708985	8.133E-08	1.13272E- 06	-6.182853	420.5	3781	2693.75	
activating transcription factor 3 (ATF3), transcript variant 2, mRNA	NP_004015.3	NM_004024.3	mwghuman3 OK#A:00568	-3.134291	8.40437E- 06	1.51698E- 07	-7.446028	421	13832.5	5301.25	3
cytochrome P450, family 3, subfamily A, polypeptide 5 (CYP3A5), mRNA	NP_000768.1	NM_000777.2	mwghuman3 OK#A:04559	-2.482162	7.0225E- 08	1.9772E- 06	-4.813425	451.5	20350.5	12190.5	2
ensembl genscan prediction		AL161725.13, 1.181179.3	mwghuman3 OK#C:3443	-1.955495	1.19555E- 09	9.24336E- 06	-5.681512	455	2738.5	1799	
KIT ligand (KITLG), transcript variant b, mRNA	NP_000890.1	NM_000899.3	mwghuman3 OK#A:07355	-4.28251	3.8867E- 06	7.23184E- 07	-5.884133	470	19497	10599.75	2

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
decay accelerating factor for complement (CD55, Cromer blood group system) (DAF), mRNA	NP_000565.1	NM_000574.2	mwghuman3 OK#A:06760	-2.146033	1.44112E- 06	6.53282E- 06	-5.668164	471.5	9806.5	4753.25	10
solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 23 (SLC25A23), mRNA	NP_077008.2	NM_024103.2	mwghuman3 OK#A:05530	-1.465915	7.79426E- 09	8.80903E- 07	-5.741772	497	16285.5	12418.75	4
wingless-type MMTV integration site family, member 2B (WNT2B), transcript variant WNT- 2B1, mRNA	NP_004176.2	NM_004185.2	mwghuman3 OK#A:05696	-10.745275	2.92382E- 12	3.19726E- 07	-6.175471	501	10716	2016.25	0
protocadherin gamma subfamily A, 12 (PCDHGA12), transcript variant 1, mRNA	NP_003726.1	NM_003735.2	mwghuman3 OK#A:03393	-2.070447	2.89557E- 07	6.92439E- 06	-4.982742	511	2537	1931.5	0

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
ensembl genscan prediction		AC010828.3. 125573.1581 93.2	mwghuman3 OK#C:4737	-1.679465	2.34945E- 07	6.18322E- -07	-5.341693	511	26962	25287.75	
olfactory receptor, family 1, subfamily D, member 5 (OR1D5), mRNA	NP_055381.1	NM_014566.1	mwghuman3 OK#A:08766	-1.640751	5.38884E- 08	4.32856E- -06	-5.134756	539.5	1644	1134	0
G protein- coupled receptor 126 (GPR126), transcript variant b1, mRNA	NP_940971.1	NM_198569.1	mwghuman3 OK#B:2989	-2.181735	3.9002E- 07	1.05021E- -05	-5.047901	549	15965.5	8040.75	0
similar to ba408e5.4 novel protein dmpk-like cdc42-binding kinase beta cdc42bpb loc144850		XM_090553	mwghuman3 OK#B:9158	-4.265957	2.3863E- 08	5.29006E- -07	-6.259229	573	1784	632	
ubiquitin specific peptidase 9, Y- linked (fat facets-like, Drosophila) (USP9Y), mRNA	NP_004645.2	NM_004654.3	mwghuman3 OK#A:10655	-1.584065	3.40815E- 07	8.23838E- -06	-5.287284	587	10035.5	7858.25	1

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
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	NP_006407. 1	NIM_006416.2	mwghuman3 OK#B:6203	-1.879113	1.20877E- 06	5.48118E- 06	-5.297694	606	20639	15436.75	1
cell line sc30 t receptor alpha chain v-j junctional region tcr v 29.1 j 11 coding sequence reported spans from nucleotide position		U14083	mwghuman3 OK#B:9790	-2.442854	9.94216E- 08	1.14277E- 08	-7.365379	617	6673	2661.5	
chromosome 2 open reading frame 33 (C2orf33), mRNA	NP_064579. 3	NIM_020194.4	mwghuman3 OK#A:06988	-1.615311	3.24982E- 07	9.24336E- 06	-5.392632	624	11555.5	8868.25	4
ensembl genscan prediction		AC073108.7.1 14033.192530 .1	mwghuman3 OK#C:4991	-2.137812	1.453E-05	1.06394E- 06	-6.345675	650.5	9963.5	5676.75	

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
UDP-N-acetyl- alpha-D- galactosamine: polypeptide N- acetylglactosa minyltransferas e 7 (GALNAc- T7) (GALNT7), mRNA	NP_059119. 1	NM_017423.1	mwghuman3 OK#A:01420	-1.401046	7.53042E- 08	1.13272E- 06	-6.143981	656.5	10573	8997.75	2
chromosome 11 open reading frame 1 (C11orf1), mRNA	NP_073598. 1	NM_022761.1	mwghuman3 OK#A:01834	-1.81726	1.38032E- 06	1.22937E- 05	-5.104229	673.5	12025.5	9585.25	0
heterogeneous nuclear ribonucleoprote in H2 (H') (HNRPH2), transcript variant 1, mRNA	NP_062543. 1	NM_019597.3	mwghuman3 OK#A:08547	-2.03901	2.40065E- 06	6.16248E- 06	-5.465662	684	777	472	9
Werner syndrome (WRN), mRNA	NP_000544. 1	NM_000553.2	mwghuman3 OK#A:03163	-1.605462	7.49706E- 08	6.16248E- 06	-4.681771	696	4585	4351.25	3
ensembl genscan prediction		AC040160.3.6 1245.138821. 5	mwghuman3 OK#C:7317	-4.953847	7.54477E- 12	1.43666E- 08	-6.602968	706.5	4523.5	744.5	

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	bloo d
adducin 3 (gamma) (ADD3). transcript variant 1, mRNA	NP_058432.1	NM_016824.3	mwghuman3 OK#B:5211	-2.092475	1.34331E- 05	1.16156E -05	-5.883251	716	7668.5	4808.75	8
hydroxysteroid dehydrogenase like 2 (HSDL2), mRNA	NP_115679.2	NM_032303.2	mwghuman3 OK#B:3888	-2.1317	9.39999E- 07	5.81228E -06	-5.58267	732.5	7276.5	5055	2
DNA-damage- inducible transcript 4 (DDIT4), mRNA	NP_061931.1	NM_019058.2	mwghuman3 OK#B:2115	-2.660775	6.68834E- 05	5.16818E -06	-5.969252	750	10960.5	5062.75	12
RNA binding protein, autoantigenic (hnRNP- associated with lethal yellow homolog (mouse)) (RALY), transcript variant 1, mRNA	NP_057951.1	NM_016732.1	mwghuman3 OK#A:06376	-1.901576	1.7076E- 07	4.32856E -06	-4.392163	750.5	977	386.5	26

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
acyl-CoA synthetase medium-chain family member 3 (ACSM3), transcript variant 1, mRNA	NP_005613.2	NM_005622.3	mwghuman3 OK#B:9076	-1.967123	1.7751E- 05	7.33836E- 06	-5.050721	765.5	18906.5	12252.25	3
BCL2- associated athanogene (BAG1), mRNA	NP_004314.3	NM_004323.3	mwghuman3 OK#A:09581	-2.525417	2.13163E- 08	5.29006E- 07	-5.934904	776	9031	4503.5	1
neural precursor cell expressed, developmental y down- regulated 4 (NEDD4), transcript variant 1, mRNA	NP_006145.1	NM_006154.1	mwghuman3 OK#B:7862	-1.900818	3.7763E- 06	8.23334E- 06	-5.249282	781	15497	12075	2
chromosome 7 open reading frame 19 (C7orf19), mRNA	NP_116220.1	NM_032831.1	mwghuman3 OK#B:2324	-1.780735	4.63759E- 06	0.000016 624	-5.43532	783	11586.5	6704.75	16
calpain 13 (CAPN13), mRNA	NP_653176.2	NM_144575.2	mwghuman3 OK#B:6754	-1.542431	4.41704E- 06	5.81228E- 06	-4.843249	808.5	23318	19953.5	0
homeo box B2 (HOXB2), mRNA	NP_002136.1	NM_002145.2	mwghuman3 OK#A:01639	-2.702649	2.94498E- 11	5.08294E- 08	-6.774876	814.5	11537.5	6408	3

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
coiled-coil domain containing 28A (CCDC28A), mRNA	NP_056254.1	NM_015439.2	mwghuman3 OK#B:3128	-1.960606	1.97345E- 06	5.48118E -06	-5.330597	826	19022	14223.75	4
myofibrillogen- esis regulator 1 (MR-1), transcript variant 1, mRNA	NP_056303.2	NM_015488.3	mwghuman3 OK#B:3179	-1.526799	1.22924E- 05	6.92439E -06	-5.874478	832	13007	10755.75	6
guanine nucleotide binding protein (G protein), beta polypeptide 2- like 1 (GNB2L1), mRNA	NP_006089.1	NM_006098.4	mwghuman3 OK#C:0841	-1.789085	2.16356E- 06	4.35419E -05	-4.900058	844.5	1710	1178	106
spectrin repeat containing, nuclear envelope 1 (SYNE1), transcript variant beta, mRNA	NP_056108.1	NM_015293.1	mwghuman3 OK#B:9104	-1.414534	7.52733E- 07	3.02433E -06	-5.983107	851	20159.5	17233.75	64
ensembl genscan prediction		AL021155.1.1 .107603.5	mwghuman3 OK#C:7334	-1.766409	2.12121E- 06	2.01355E -05	-4.468876	853	1264	847.5	

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
bone morphogenetic protein receptor, type IA (BMPRI1A), mRNA	NP_004320.2	NM_004329.2	mwghuman3 OK#A:02484	-1.558632	2.22237E- 07	1.22937E- 05	-4.618211	874.5	5116	5037.5	4
IQ motif containing B1 (IQCB1), transcript variant 1, mRNA	NP_0010188 64.1	NM_0010235 70.1	mwghuman3 OK#B:4020	-1.646698	2.79495E- 05	1.62908E- 05	-5.169855	882.5	10922	8773.5	2
ensembl genscan prediction similar to		AC069502.9.1 .18380.1	mwghuman3 OK#C:3663	-1.464573	6.94397E- 07	2.53657E- 05	-4.951029	901	21078	19035	
death- associated protein (LOC92196), mRNA	NP_0010179 20.1	NM_0010179 20.1	mwghuman3 OK#B:6718	-2.553467	5.76345E- 07	7.76152E- 07	-5.221107	907	23255	15868	0
ensembl genscan prediction		AC012203.4.1 05191.123571 .1	mwghuman3 OK#C:4578	-1.438718	3.21936E- 05	4.85862E- 07	-5.989899	907	27071.5	25867.5	
ensembl genscan prediction mwg oligo matches these RefSeq numbers NIM_000986		AL158153.8.4 5139.113162. 3	mwghuman3 OK#C:2173	-2.089238	4.80586E- 07	4.32856E- 06	-5.395407	909.5	1290	1010.25	

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
growth arrest and DNA- damage- inducible, alpha (GADD45A), mRNA	NP_001915.1	NM_001924.2	mwghuman3 OK#A:04346	-1.68216	7.53906E- 06	2.67916E- 05	-4.924921	916.5	11634.5	8596.75	3
stress 70 protein chaperone, microsome- associated, 60kDa (STCH), mRNA	NP_008879.3	NM_006948.4	mwghuman3 OK#A:05064	-1.761334	4.58163E- 05	1.72268E- 05	-5.784774	916.5	10794	6231.25	5
ensembl gencode prediction family with sequence similarity 44, member B (FAM44B), mRNA		Z84474.1.1.1 07526.2	mwghuman3 OK#C:0911	-1.884499	1.62444E- 08	2.23413E- 06	-5.434325	933.5	1974	1488.5	
	NP_612378.1	NM_138369.1	mwghuman3 OK#B:4192	-1.357114	7.91633E- 07	1.64431E- 06	-6.047548	942.5	15308.5	13004.75	1
ensembl gencode prediction		AC078789.15. 1.55074.2	mwghuman3 OK#C:6283	-1.786484	1.80836E- 06	3.70831E- 05	-4.861731	948	25553.5	22990.75	
citrate lyase beta like (CLYBL), transcript variant 1, mRNA	NP_612124.3	NM_138280.3	mwghuman3 OK#B:8855	-1.444822	1.17336E- 06	5.16818E- 06	-5.775319	953	21231	19330.25	1

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
ensembl genscan prediction		AP001015.3.6 6054.115655. 1	mwghuman3 OK#C:3998	-1.709242	1.48259E- 07	7.36585E -05	-4.504002	972.5	3374.5	2739.5	
ensembl genscan prediction		AL159169.14. 1.86155.2	mwghuman3 OK#C:4465	-1.474035	8.96434E- 07	3.25437E -06	-5.020854	998.5	28575	28030	
chromosome 6 open reading frame 130 (C6orf130), mRNA	NP_659500.1	NM_145063.2	mwghuman3 OK#B:4652	-1.674296	1.77778E- 05	3.32944E -05	-4.846371	1011. 5	14804	10754.75	3
methyltransferase like 1 (METTL1), transcript variant 1, mRNA	NP_005362.1	NM_005371.3	mwghuman3 OK#A:00607	-1.464425	1.73108E- 07	5.48118E -06	-5.447819	1026	943	645.5	2
nucleosome assembly protein 1-like 4 (NAP1L4), mRNA	NP_005960.1	NM_005969.3	mwghuman3 OK#A:00706	-1.902267	1.44614E- 05	6.99321E -05	-4.962357	1042. 5	10336.5	8978.5	12
tumor protein D52 (TPD52), transcript variant 3, mRNA	NP_005070.1	NM_005079.2	mwghuman3 OK#A:05633	-1.55805	1.79544E- 06	3.15409E -05	-4.599069	1070	19033	14646.75	4
EH-domain containing 4 (EHD4), mRNA	NP_644670.1	NM_139265.2	mwghuman3 OK#B:5911	-1.64935	1.97896E- 05	3.70831E -05	-4.903865	1077	12134	9187.5	4

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
fibroblast growth factor receptor 4 (FGFR4), transcript variant 2, mRNA	NP_075252.2	NM_022963.2	mwghuman3 OK#B:8174	-2.638426	2.02402E- 06	3.21175E- 06	-6.251766	1087. 5	17096	9762.5	0
KIAA0674 (KIAA0674), mRNA	XP_376903.2	XM_376903.2	mwghuman3 OK#B:0240	-1.362276	3.68739E- 06	3.62055E- 06	-5.432041	1092. 5	10744	9097.25	4
chromosome 16 bac clone cit987sk-a- 363e6		U91321	mwghuman3 OK#B:5375	-1.568388	5.91844E- 05	6.53282E- 06	-6.349455	1114. 5	10576.5	6083.25	
ensembl gscan prediction		AC073610.11. 63494.102478 .3	mwghuman3 OK#C:1337	-1.828108	1.68831E- 06	1.30096E- 05	-5.253574	1114. 5	1434.5	737	
androgen receptor (AR), transcript variant 1, mRNA	NP_000035.2	NM_000044.2	mwghuman3 OK#A:01003	-1.575215	1.18973E- 07	1.54035E- 05	-4.291628	1120. 5	18067.5	15252.5	0
thyroid transcription factor 1 (TTF1), mRNA	NP_003308.1	NM_003317.3	mwghuman3 OK#A:07197	-1.466987	8.57665E- 07	1.54585E- 06	-6.023277	1124. 5	2139	1026.25	0

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
spectrin repeat containing, nuclear envelope 1 (SYNE1), transcript variant longest, mRNA	NP_892006.1	NM_182961.1	mwghuman3 OK#C:2340	-1.440164	6.37872E- 05	2.15085E- 05	-5.805222	1124. 5	26092.5	21681.5	64
ensembl gensecan prediction		AC019084.7.9 3515.134992. 2	mwghuman3 OK#C:5482	-1.55364	1.48892E- 06	7.77593E- 06	-5.043927	1126. 5	8785.5	8789.5	
ensembl gensecan prediction		AC026235.12. 9210.157122. 4	mwghuman3 OK#C:3969	-1.693854	8.74991E- 08	0.000122 803	-4.393663	1136. 5	804	493.5	
ensembl gensecan prediction		AP002840.1.9 9623.121675. 1	mwghuman3 OK#C:5950	-1.784079	2.96992E- 05	7.75722E- 05	-4.69759	1156	16693.5	14033.25	
CDC-like kinase 1 (CLK1), transcript variant 1, mRNA	NP_004062.2	NM_004071.2	mwghuman3 OK#A:07840	-2.034707	6.15281E- 05	6.99321E- 05	-5.146308	1157. 5	12199	7934.75	4
lipin 1 (LPIN1), mRNA	NP_663731.1	NM_145693.1	mwghuman3 OK#B:8172	-1.851742	1.40757E- 07	2.98753E- 05	-4.301729	1159. 5	3757	2609	2
lamin A/C (LMNA), transcript variant 2, mRNA	NP_005563.1	NM_005572.2	mwghuman3 OK#A:08943	-1.724223	9.63727E- 05	5.67358E- 05	-5.305029	1162. 5	4447	3295	10
ensembl gensecan prediction		AC079456.15. 119608.15149 0.1	mwghuman3 OK#C:3309	-1.39662	6.38081E- 06	4.32856E- 06	-6.439308	1169. 5	26755.5	26493.5	

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
similar to riken cdha 1500002b03 clone imgc:12928 image:429841 4		BC007768	mwghuman3 OK#B:4242	-1.518362	5.21322E- 06	3.51403E- 05	-4.463332	1171	21159	20375	
ensembl gencan prediction		AC027086.2.2 3033.31927.1	mwghuman3 OK#C:6982	-1.659003	1.16113E- 11	3.82785E- 07	-6.295271	1172. 5	2757	2062.75	
hyaluronoglucosaminidase 3 (HYAL3), mRNA	NP_003540.2	NM_003549.2	mwghuman3 OK#A:09529	-2.01277	6.70905E- 08	1.16156E- 05	-4.684969	1175	4326	3464.5	4
ensembl gencan prediction		AC083822.10. 126464.12912 2.1	mwghuman3 OK#C:9101	-1.479602	6.01319E- 06	2.53657E- 05	-4.526959	1177	22091.5	20578.5	
VprBP protein (VprBP), mRNA	NP_055518.1	NM_014703.1	mwghuman3 OK#B:0332	-1.720326	3.28082E- 05	2.40122E- 05	-5.246863	1178	17312.5	14031	0
nuclear RNA export factor 1 (NXF1), mRNA	NP_006353.2	NM_006362.3	mwghuman3 OK#B:1047	-1.485619	7.48559E- 05	1.62908E- 05	-5.176445	1195. 5	15210	14049.75	20
empty spiracles homolog 2 (Drosophila) (EMX2), mRNA	NP_004089.1	NM_004098.2	mwghuman3 OK#B:9279	-1.745086	9.4996E- 09	5.64117E- 07	-5.709572	1199. 5	19380	10749.25	0
homeo box D8 (HOXD8), mRNA	NP_062458.1	NM_019558.2	mwghuman3 OK#B:3465	-1.41555	6.70306E- 08	2.1019E- 06	-5.674131	1206	9672.5	7512.25	0

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
pro2591 predicted protein of hq2591		AF119886	mwghuman3 OK#B:1001	-1.487408	7.83971E- 05	1.30297E- -05	-4.929888	1212	27543.5	26699	0
ensembl gensecan prediction		AC016432.3.1 6946.19371.1	mwghuman3 OK#C:6058	-3.528975	4.33482E- 13	5.08294E- -08	-6.731611	1216. 5	3962.5	1303	
ensembl gensecan prediction		AF286885.1.7 6372.115954. 3	mwghuman3 OK#C:7800	-1.83051	1.14443E- 05	5.11795E- -05	-4.359199	1218	21163.5	21224.5	
zinc finger protein 25 (KOX 19) (ZNF25). mRNA	NP_659448.1	NM_145011.2	mwghuman3 OK#C:1648	-1.473477	6.43814E- 09	4.35863E- -07	-5.84264	1253. 5	21026.5	19171	1
zinc finger protein 626 (ZNF626). mRNA	NP_660340.1	NM_145297.2	mwghuman3 OK#B:4148	-1.773183	2.31455E- 06	6.63845E- -05	-4.294361	1266	14806.5	10341	1
growth arrest and DNA- damage- inducible, beta (GADD45B). mRNA	NP_056490.1	NM_015675.1	mwghuman3 OK#A:00537	-1.950707	0.0002000 32	2.03519E- -05	-5.558029	1270. 5	13309	8615.5	5
nebullette (NEBL). transcript variant 1. mRNA	NP_006384.1	NM_006393.1	mwghuman3 OK#A:10459	-1.513391	1.95755E- 05	3.15409E- -05	-4.789714	1276	22936	20052.5	1

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
hypothetical protein pro2832 pro2832		NM_018541	mwghuman3 OK#A:00371	-1.457098	3.06355E- 05	6.99321E- 05	-5.164495	1289. 5	16692.5	14266.5	
ring finger protein 44 (RNF44), mRNA	NP_055716.1	NM_014901.4	mwghuman3 OK#A:10680	-1.353366	7.76079E- 07	2.37433E- 06	-5.842265	1292	6288.5	4664.5	1
REX1, RNA exonuclease 1 homolog (S. cerevisiae) (REXO1), mRNA	NP_065746.2	NM_020695.2	mwghuman3 OK#B:8218	-1.36867	1.73225E- 05	2.38069E- 05	-5.111364	1305. 5	4933	3309.5	6
pyrimidinergic receptor P2Y, G-protein coupled, 4 (P2RY4), mRNA	NP_002556.1	NM_002565.3	mwghuman3 OK#A:00433	-1.732075	5.0193E- 08	2.68048E- 06	-5.510614	1309	18307	12139.5	0
ensembl gensecan prediction		AL023804.2.1 .96460.1	mwghuman3 OK#C:5405	-1.533348	1.03637E- 06	2.806E- 05	-4.693772	1313	28610	27980.5	
ensembl gensecan prediction		AL139823.3.4 9422.51911.1	mwghuman3 OK#C:8800	-1.894452	4.41409E- 05	0.000129 14	-4.650026	1320	11214.5	7548	
similar to hypothetical protein (LOC440804), mRNA	XP_036936.3	XM_036936.3	mwghuman3 OK#B:4832	-4.049648	5.38047E- 11	1.51698E- 07	-6.579174	1332	3647	996.5	0

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
chromosome X open reading frame 41 (CXorf41), mRNA	NP_775765.1	NM_173494.1	mwghuman3 OK#C:1526	-1.448331	1.77872E- 05	2.53657E- 05	-5.140193	1334	27414	24062.75	0
chromosome 20 open reading frame 152 (C20orf152), mRNA	NP_543024.1	NM_080834.1	mwghuman3 OK#B:3251	-1.948612	6.84261E- 06	1.82138E- 05	-4.987586	1349	10775	8652.5	0
ensembl gensecan prediction phosphorylase, glycogen; liver (Hers disease, glycogen storage disease type VI) (PYGL), mRNA		AL390766.11. 35686.142382 .1	mwghuman3 OK#C:4546	-1.516487	5.60986E- 05	4.81914E- 05	-4.642986	1352	28469.5	27078.25	
	NP_002854.3	NM_002863.3	mwghuman3 OK#A:04342	-2.190281	5.14475E- 06	0.000269 936	-4.316788	1388. 5	10289.5	7222	21
ensembl gensecan prediction folliculin-like 4 (FSTL4), mRNA		AC013764.3.1 17501.157349 .1	mwghuman3 OK#C:3627	-1.671949	8.77886E- 06	7.36585E- 05	-4.28185	1395. 5	1205	826.5	
	NP_055897.1	NM_015082.1	mwghuman3 OK#B:0510	-1.544042	4.79688E- 05	4.35419E- 05	-4.607654	1405. 5	17051	12319	0

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
chromosome 14 open reading frame 168 (C14orf168), mRNA	NP_113615.1	NM_031427.1	mwghuman3 OK#B:4011	-1.512002	1.56095E- 05	5.97939E- 05	-4.695177	1414	15738	14705.75	1
aldehyde dehydrogenas e 7 family, member A1 (ALDH7A1), mRNA	NP_001173.1	NM_001182.2	mwghuman3 OK#A:08361	-1.837545	4.80787E- 07	0.000105 506	-3.903403	1433	20103.5	14345.5	2
ensembl genscan prediction kalikrein 8		AC010904.9.3 83.204857.4	mwghuman3 OK#C:7433	-1.40403	4.74755E- 05	3.07694E- 05	-4.852328	1444	27423.5	25979.25	
(neuropsin/ova sin) (KLK8), transcript variant 2, mRNA	NP_653088.1	NM_144505.1	mwghuman3 OK#B:0129	-2.091505	3.56009E- 06	2.61655E- 06	-5.991679	1449. 5	8391	6488	0
leucine zipper, down-regulated in cancer 1-like (LDOC1L), mRNA	NP_115663.2	NM_032287.2	mwghuman3 OK#B:8710	-1.501021	2.6566E- 06	1.22937E- 05	-4.280727	1454. 5	16509.5	14157	0
two pore segment channel 1 (TPCN1), mRNA	NP_060371.2	NM_017901.3	mwghuman3 OK#B:7759	-1.497443	4.32588E- 06	3.32944E- 05	-4.567011	1460. 5	17545	11635.75	8

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
hypothetical protein MGC11242 (MGC11242), mRNA	NP_077296.1	NM_024320.2	mwghuman3 OK#A:05130	-1.527839	2.70218E- 05	1.72268E- -05	-4.004461	1463. 5	17565	13134.5	0
phosphatase acidic cluster sorting protein 1 (PACS1), mRNA	NP_060496.2	NM_018026.2	mwghuman3 OK#B:7703	-1.494259	5.23361E- 05	7.36585E- -05	-4.899266	1482. 5	9352	7757.75	19
hypothetical protein xp_036406 loc91138		XM_036406	mwghuman3 OK#B:8080	-1.533764	1.02161E- 05	4.59223E- -05	-4.93538	1486. 5	15372.5	14652	
KIAA1274 (KIAA1274), mRNA	NP_055246.1	NM_014431.1	mwghuman3 OK#B:8047	-1.41942	7.87044E- 05	2.27276E- -05	-5.659345	1488. 5	8059	5065	0
ensembl gencode prediction		AC090651.1.9 901.36661.2	mwghuman3 OK#C:6027	-1.525691	2.39913E- 05	7.36585E- -05	-4.620984	1489. 5	21092	20253	
hypothetical protein FLJ13111 (FLJ13111), mRNA	NP_079358.1	NM_025082.1	mwghuman3 OK#A:02690	-1.496988	3.69096E- 05	7.08197E- -05	-4.489468	1494	4861	7579.25	10
glycophorin C (Gerbich blood group) (GYPC), transcript variant 1, mRNA	NP_002092.1	NM_002101.3	mwghuman3 OK#A:01278	-1.628829	9.49623E- 06	0.000135 784	-4.110107	1502	8042	6771	2

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
hypothetical LOC401510 (LOC401510), mRNA	XP_376843.2	XM_376843.2	mwghuman3 OK#B:6807	-1.402922	3.03035E- 06	0.000105 506	-4.471835	1504	13882.5	11233.25	0
ensembl gencode prediction		AC068282.4.1 68870.201224 .1	mwghuman3 OK#C:1421	-1.273265	1.4683E- 06	4.32856E -06	-5.673395	1505. 5	4650	3232.25	
phospholipase A2, group IVA (cytosolic, calcium- dependent) (PLA2G4A), mRNA	NP_077734.1	NM_024420.1	mwghuman3 OK#C:2726	-1.656839	1.32347E- 05	2.82936E -05	-4.522341	1508. 5	17687.5	14140.5	5
plastin 1 (I isoform) (PLS1), mRNA	NP_002661.1	NM_002670.1	mwghuman3 OK#A:06551	-1.626206	5.67628E- 05	2.98753E -05	-4.952263	1509. 5	20943	14040.5	1
neurobeachin- like 1 (NBEAL1), mRNA	NP_945183.1	NM_198945.1	mwghuman3 OK#C:8646	-1.528665	7.51176E- 06	2.82936E -05	-5.005478	1511. 5	23554.5	20060	3
alcohol dehydrogenas e 4 (class II), pi polypeptide (ADH4), mRNA	NP_000661.2	NM_000670.3	mwghuman3 OK#A:04002	-1.485933	6.40488E- 05	7.36585E -05	-4.608649	1520. 5	22288	20240.75	0

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
clone rp5-94718 on chromosome 1p34.1-36.11. contains ests gss and stss. part of novel cub sushi scr repeat domain containing p		AL355178	mwghuman3 OK#B:9614	-1.466888	8.43097E- 06	3.15409E- 05	-4.397922	1529	4947.5	4650.25	
cytochrome b5 reductase 3 (CYB5R3), transcript variant M, mRNA	NP_000389.1	NM_000398.4	mwghuman3 OK#A:01423	-1.497796	0.0001216 06	9.05266E- 05	-5.28459	1531. 5	9574.5	6353.5	9
clone flb5634 pro1477 predicted protein of hg1477		AF130059	mwghuman3 OK#B:1074	-1.699661	1.17568E- 05	3.32944E- 05	-4.802532	1535	5685	3946.75	10
zinc finger, D/HHC-type containing 2 (ZDHH2), mRNA	NP_057437.1	NM_016353.2	mwghuman3 OK#A:03494	-1.588633	8.03858E- 06	0.000105 506	-4.741236	1536	13684.5	10087.5	0
cone-rod homeobox (CRX), mRNA	NP_000545.1	NM_000554.2	mwghuman3 OK#A:09219	-3.022299	2.51326E- 05	9.24336E- 06	-5.849282	1548	16588.5	7500.5	0

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
chromosome 14 open reading frame 154 (C14orf154), transcript variant 1, mRNA	NP_115609.2	NM_032233.2	mwghuman3 OK#B:2665	-1.704609	8.00302E- 05	0.000166 293	-4.427372	1561. 5	16629	15080.75	5
hypothetical protein xp_098665 loc155085		XM_098665	mwghuman3 OK#B:6056	-1.672814	4.27782E- 05	0.000142 749	-4.312941	1566. 5	8795	6847.25	
clone hg0117 pro0117		AF090895	mwghuman3 OK#B:0914	-1.888405	1.18377E- 05	9.05266E- 05	-4.735768	1570. 5	20158	14933.5	4
prostate and breast cancer overexpressed 1 (PBOV1), mRNA	NP_067648.1	NM_021635.1	mwghuman3 OK#A:05114	-1.610345	5.40979E- 06	8.1682E- 05	-4.437567	1571. 5	22494.5	19845.75	0
esterase D/for myglutath ione hydrolase (ESD), mRNA	NP_001975.1	NM_001984.1	mwghuman3 OK#C:2641	-1.535083	6.75303E- 06	4.84259E- 05	-4.777065	1574	8049	4838.75	6
ATG4 autophagy related 4 homolog B (S. cerevisiae) (ATG4B), transcript variant 1, mRNA	NP_037457.3	NM_013325.4	mwghuman3 OK#B:2748	-1.348856	8.59727E- 06	1.6224E- 05	-4.71932	1575	15166	16712.25	13

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
NADPH oxidase 1 (NOX1), transcript variant NOH- 1Lv, mRNA	NP_039249.1	NM_013955.1	mwghuman3 OK#B:1370	-1.903809	5.04367E- 06	2.65189E- 05	-3.799677	1585. 5	18807.5	17371.5	0
ensembl gensecan prediction		AL445675.9.1 .171985.3	mwghuman3 OK#C:8741	-1.774793	2.60881E- 05	0.000182 916	-4.133137	1598	22483.5	18071.5	
putative nuclear protein ORF1-FL49 (ORF1-FL49), mRNA	NP_115788.1	NM_032412.2	mwghuman3 OK#B:7958	-1.499659	6.10749E- 05	3.32944E- 05	-4.457256	1610. 5	8598	4986	8
THUMP domain containing 1 (THUMPd1), mRNA	NP_060206.2	NM_017736.3	mwghuman3 OK#B:2088	-1.313257	4.11592E- 07	6.53282E- 06	-5.325518	1651. 5	14877	15313.5	0
glutaminyl- peptide cyclotransferas e (glutaminyl cyclase) (QPCT), mRNA	NP_036545.1	NM_012413.3	mwghuman3 OK#A:09422	-1.769571	4.69509E- 07	0.000122 803	-3.882851	1651. 5	11960	8357.75	2
PHD finger protein 23 (PHF23), mRNA	NP_077273.1	NM_024297.1	mwghuman3 OK#A:02678	-1.398461	1.43961E- 05	0.000109 884	-4.356774	1657. 5	10656.5	9355.75	0

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
nasopharyngeal carcinoma associated gene protein-8 (NAG8), mRNA	NP_055226.1	NM_014411.2	mwghuman3 OK#B:1482	-1.388055	2.38325E-05	5.10584E-05	-4.601658	1660	15731.5	12161	0
ensembl gencode prediction		AC013487.5.1 02379.117540.1	mwghuman3 OK#C:3348	-1.465932	0.000144857	2.37433E-06	-6.225756	1662	14711	9423	
ensembl gencode prediction		AC079757.5.5 4037.62672.1	mwghuman3 OK#C:3844	-1.486502	2.69625E-05	4.12788E-05	-4.765229	1684.5	25678.5	23575.5	
hypothetical protein FLJ22313 (FLJ22313), mRNA	NP_071768.2	NM_022373.3	mwghuman3 OK#B:3974	-1.47429	0.000104725	5.67358E-05	-4.784258	1688.5	8360.5	9165.25	2
holocytochrome c synthase (cytochrome c heme-lyase) (HCCS), mRNA	NP_005324.2	NM_005333.2	mwghuman3 OK#A:04510	-2.084412	0.000332632	0.000211886	-5.979649	1692.5	10130.5	5488.25	4
dual specificity phosphatase 5 (DUSP5), mRNA	NP_004410.3	NM_004419.3	mwghuman3 OK#A:04028	-1.866767	5.52516E-05	2.27276E-05	-5.708882	1694.5	16243.5	8885	2
hypothetical protein FLJ20245 (FLJ20245), mRNA	NP_060193.1	NM_017723.1	mwghuman3 OK#B:2083	-1.525601	6.09068E-05	0.00011676	-4.325617	1697	16122	13101	3

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
protein kinase, AMP-activated, gamma 2 non- catalytic subunit (PRKAG2), mRNA	NP_057287.2	NM_016203.2	mwghuman3 OK#A:00771	-1.408092	1.41299E- 05	8.59969E- 05	-4.435082	1697. 5	16315.5	13437.25	5
clone tp11- 314a4 on chromosome 20. contains part of the eya2 eyes absent drosophila homolog 2 ests an sts and gsss starts i		AL359434	mwghuman3 OK#B:9638	-1.591958	1.67257E- 05	6.56055E- 05	-4.203762	1702	25348.5	23840.75	
hypothetical protein pro1598 pro1598		NM_018503	mwghuman3 OK#B:0983	-1.446989	3.89533E- 06	1.30096E- 05	-5.339446	1716. 5	24112.5	22618.75	
NIMA (never in mitosis gene a)- related kinase 9 (NEK9), mRNA	NP_149107.3	NM_033116.3	mwghuman3 OK#C:0238	-1.359292	3.922E-05	4.35419E- 05	-4.78725	1722. 5	10134.5	7455.5	5
glycine receptor, alpha 3 (GLRA3), mRNA	NP_006520.1	NM_006529.1	mwghuman3 OK#A:03690	-1.412224	0.0001037 63	8.1682E- 05	-4.59741	1726	9472.5	8083.25	2

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
ensembl gscan prediction		AC004408.1.1 .113252.2	mwghuman3 OK#C:9512	-1.54073	2.55537E- 06	1.54035E- -05	-3.618774	1727	2977	2622.75	
ensembl gscan prediction		AP001655.2.1 48977.153525 .1	mwghuman3 OK#C:7868	-1.285997	2.64478E- 05	1.96829E- -05	-4.601991	1746	28566	28245.5	
HERV-H LTR- associating 3 (HHLA3), transcript variant 3, mRNA	NP_0010317 22.1	NM_0010366 45.1	mwghuman3 OK#B:1046	-2.043346	8.67677E- 05	9.52067E- -05	-3.941702	1759	13925.5	11798	0
ensembl gscan prediction		AL355497.14. 1.215397.9	mwghuman3 OK#C:7911	-3.056765	1.10766E- 06	3.82785E- -07	-6.916789	1760	5672.5	2481.25	
fibronectin leucine rich transmembran e protein 3 (FLRT3), transcript variant 1, mRNA	NP_037413.1	NM_013281.2	mwghuman3 OK#A:05822	-4.204569	1.4941E- 08	9.99201E- -07	-6.042443	1770	18156	9231.25	0
cyp3a5 allele cyp3a5 ¹ 3 alternatively spliced		AF355802	mwghuman3 OK#B:1830	-1.371576	7.33293E- 06	1.91497E- -05	-4.362299	1784	26198.5	24518.25	

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
microfibrillar- associated protein 3-like (MFAP3L), transcript variant 1, mRNA	NP_067679.5	NM_021647.5	mwghuman3 OK#B:0217	-1.987417	0.0001373 75	1.98715E -06	-4.959479	1785	22262	18475.25	3
cell division cycle associated 7 (CDC47), transcript variant 1, mRNA	NP_114148.2	NM_031942.3	mwghuman3 OK#B:4810	-1.959598	9.26637E- 05	0.000150 05	-4.246093	1788	14826	12577.25	1
WD repeat domain 61 (WDR61), mRNA	NP_079510.1	NM_025234.1	mwghuman3 OK#B:1624	-1.531798	0.0001544 91	0.000105 506	-4.38785	1801. 5	9756.5	8041.75	3
protein kinase, AMP-activated, beta 1 non- catalytic subunit (PRKAB1), mRNA	NP_006244.2	NM_006253.4	mwghuman3 OK#A:04996	-1.514877	9.29449E- 05	0.000105 506	-4.4366	1805. 5	16011.5	13954	3
zinc finger, A20 domain containing 2 (ZAF20D2), mRNA	NP_005998.1	NM_006007.1	mwghuman3 OK#A:10213	-1.857923	2.78106E- 06	2.67916E- 05	-4.781221	1808. 5	6856.5	4563.25	13
similar to pro2852 loc93374		XM_050978	mwghuman3 OK#B:7206	-1.359998	8.48914E- 05	6.30077E- 05	-5.206744	1817	19166	16438	

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
catalase (CAT), mRNA	NP_001743.1	NM_001752.2	mwghuman3 OK#C:3530	-2.225675	8.1938E- 07	6.92439E- 06	-4.777325	1820	7219.5	4208.75	31
peptidylprolyl isomerase (cyclophilin)- like 2 (PPIL2), transcript variant 2, mRNA	NP_680480.1	NM_148175.1	mwghuman3 OK#B:6262	-1.384263	4.77437E- 07	4.59274E- 06	-5.396075	1834. 5	3806	3514	5
peritaxin (PRX), transcript variant 2, mRNA	NP_870998.1	NM_181882.1	mwghuman3 OK#A:01781	-1.399169	1.03356E- 05	6.63845E- 05	-4.549994	1838	19643.5	17122.5	0
breast carcinoma amplified sequence 3 (BCAS3), mRNA	NP_060149.2	NM_017679.2	mwghuman3 OK#A:01576	-1.41274	2.55423E- 07	3.64015E- 06	-4.03611	1839	15754.5	17960.25	2
HtrA serine peptidase 2 HTRA2	AAF66598.1	AF141307.1	mwghuman3 OK#B:1170	-1.284282	2.27894E- 05	1.86362E- 05	-4.071282	1850	22760.5	20044.75	
ensembl genscan prediction		AC012095.13. 12848.17419. 1	mwghuman3 OK#C:7012	-1.517696	0.0001343 14	0.000172 435	-4.407333	1854	26139.5	25010.5	
formin binding protein 4 (FBNP4), mRNA	NP_056123.1	NM_015308.1	mwghuman3 OK#B:8897	-1.360042	0.0001194 22	2.15085E- 05	-5.532889	1855	17142	14814.25	11

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
aldehyde dehydrogenas e 1 family, member L1 (ALDH1L1), mRNA	NP_036322.2	NM_012190.2	mwghuman3 OK#A:07479	-2.396851	2.32809E- 05	0.000157 701	-3.740555	1856. 5	13469	8189.5	3
ensembl gensecan prediction		AP001487.3.8 5282.114407. 1	mwghuman3 OK#C:8733	-1.603991	4.09016E- 06	5.97939E- 05	-4.353485	1870	3882	3994.75	
ensembl gensecan prediction		AC015651.18. 1.191583.4	mwghuman3 OK#C:2191	-1.392136	5.55423E- 07	1.72268E- 05	-4.562358	1873. 5	2463	1928.25	
OTU domain containing 5 (OTUD5), mRNA	NP_060072.1	NIM_017602.2	mwghuman3 OK#B:7999	-1.721318	3.42749E- 06	1.37651E- 05	-5.356883	1894. 5	1453	1011	14
ensembl gensecan prediction		AC026668.5.8 4589.93793.1	mwghuman3 OK#C:5546	-1.668723	3.74924E- 06	2.40122E- 05	-5.209366	1899	3201	1676.5	
chromosome 20 open reading frame 121 (C20orf121), mRNA	NP_077307.1	NM_024331.2	mwghuman3 OK#A:03031	-1.520517	5.93503E- 08	1.82138E- 05	-4.163768	1906	8788	6894	2
pyruvate dehydrogenas e kinase, isozyme 4 (PDK4), mRNA	NP_002603.1	NM_002612.2	mwghuman3 OK#A:07564	-1.735687	1.72294E- 05	1.22937E- 05	-5.445156	1911. 5	18067	13997.25	1

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
KIAA1049 protein (KIAA1049), mRNA	NP_055787.1	NM_014972.1	mwghuman3 OK#B:2555	-1.400381	1.30483E- 05	7.36585E- 05	-4.350759	1913. 5	10972	8868.5	12
DnaJ (Hsp40) homolog, subfamily B, member 6 (DNAJB6), transcript variant 1, mRNA	NP_490647.1	NM_058246.3	mwghuman3 OK#A:04664	-1.455502	9.60314E- 05	0.000150 05	-4.286094	1917	3609	2895.5	14
lectin, galactoside- binding, soluble, 3 (galectin 3) (LGALS3), mRNA	NP_002297.1	NM_002306.1	mwghuman3 OK#A:10306	-1.93733	6.69527E- 06	2.55121E- 05	-4.690215	1923	2753	1803.5	6
PTPRF interacting protein, binding protein 2 (liprin beta 2) (PPFIBP2), mRNA	NP_003612.1	NM_003621.1	mwghuman3 OK#B:0552	-1.881545	1.28489E- 06	2.98753E- 05	-4.14602	1937. 5	6372.5	4594.5	2
polymerase (DNA directed), lambda (POLL), mRNA	NP_037406.1	NM_013274.2	mwghuman3 OK#B:1279	-1.399567	3.5582E- 05	2.98753E- 05	-4.793654	1938	15108.5	11461.25	8

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
growth differentiation factor 15 (GDF15), mRNA	NP_004855.1	NM_004864.1	mwghuman3 OK#A:07217	-2.483648	0.0002241 34	0.000257 25	-4.296268	1944	6377	3127.5	2
hypothetical protein xp_089809 loc159765 leucine rich repeat and sterile alpha motif containing 1 (LRSAM1), transcript variant 1, mRNA		XM_089809	mwghuman3 OK#B:6474	-1.381507	9.90157E- 07	2.40122E- 05	-4.093057	1949	11626.5	11522.5	
trafficking protein particle complex 6A (TRAPPC6A), mRNA	NP_612370.3	NM_138361.3	mwghuman3 OK#B:4416	-2.034574	0.0001840 31	0.000233 537	-4.13512	1959. 5	7671.5	4421.75	1
ensembl genscan prediction	NP_077013.1	NM_024108.1	mwghuman3 OK#A:02117	-1.452954	2.44741E- 06	2.53657E- 05	-3.509555	1985	1279	1294	8
hypothetical protein MGC14327 (MGC14327), mRNA		AL357146.10. 1.82494.1	mwghuman3 OK#C:3608	-1.287782	1.49736E- 05	6.05474E- 05	-4.826559	1989	28444.5	26083.25	
	NP_444273.1	NM_053045.1	mwghuman3 OK#B:4427	-1.504495	0.0001502 58	0.000174 117	-4.521635	1992	16805	15440.5	4

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
similar to kinesin family member 5b clone mgc:15265 image:429779 3		BC009353	mwghuman3 OK#B:4438	-1.51682	0.0001882 14	0.000192 131	-4.531075	1992	23071.5	21809.75	
potassium channel tetramerisation domain containing 3 (KCTD3), mRNA	NP_057205.2	NM_016121.3	mwghuman3 OK#A:04386	-1.358006	1.34593E- 05	5.38262E -05	-4.810824	1994. 5	17479.5	13203.75	3
ensembl genscan prediction guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1 (GNAI1), mRNA		AC018425.3.1 53134.186975 .1	mwghuman3 OK#C:3925	-1.496534	0.0001495 25	0.000192 131	-4.315259	1997	25336	25414.75	
	NP_002060.4	NM_002069.4	mwghuman3 OK#A:10201	-1.631361	5.34686E- 06	0.000433 377	-3.885346	2003	16803.5	14082	1
microtubule- associated protein 4 (MAP4), transcript variant 1, mRNA	NP_002366.2	NM_002375.3	mwghuman3 OK#B:4355	-1.468752	0.0001551 87	0.000257 25	-4.423897	2004	10052	9080	11

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
nucleolar protein family 6 (RNA- associated) (NOL6), transcript variant alpha, mRNA	NP_075068.2	NM_022917.4	mwghuman3 OK#A:07182	-1.30257	1.12604E- 06	3.70831E- 05	-4.767639	2009	10513	8821	7
cerebral endothelial cell adhesion molecule 1 (CEECAM1), mRNA	NP_057258.2	NM_016174.3	mwghuman3 OK#A:10231	-1.516413	4.80848E- 05	0.000109 198	-3.667581	2014	16662.5	13757.75	0
ubiquinol- cytochrome c reductase, complex III subunit VII, 9.5kDa (UQCRCQ), nuclear gene encoding mitochondrial protein, mRNA	NP_055217.2	NM_014402.3	mwghuman3 OK#B:8060	-1.71221	4.79681E- 05	4.35419E- 05	-5.049156	2014	4199.5	2985.25	14
hypothetical protein xp_092745 loc164337		XM_092745	mwghuman3 OK#B:3255	-1.386871	3.26973E- 05	0.000165 718	-4.513374	2041	19510	15741.25	

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
hypothetical protein FLJ22965 (FLJ22965), mRNA	NP_071384.1	NM_022101.2	mwghuman3 OK#A:09776	-1.903469	7.16955E- 05	0.000475 592	-4.078844	2041. 5	2596	2337	0
chromosome 9 open reading frame 102 (C9orf102), transcript variant 1, mRNA	NP_064592.1	NM_020207.2	mwghuman3 OK#B:6956	-1.369819	3.05523E- 05	0.000105 506	-4.676244	2049	16457.5	13970	0
sphingosine-1- phosphate phosphatase 1 (SGPP1), mRNA	NP_110418.1	NM_030791.2	mwghuman3 OK#B:1809	-1.477332	4.90035E- 05	0.000142 749	-4.328137	2062. 5	20094	17541.5	1
pleckstrin and Sec7 domain containing 3 (PSD3), transcript variant 1, mRNA	NP_056125.2	NM_015310.2	mwghuman3 OK#B:9515	-1.395381	2.70551E- 05	0.000142 896	-3.953529	2072	14023	13223.25	1
hypothetical protein LOC283874 (LOC283874), mRNA	NP_0010127 49.1	NM_0010127 31.1	mwghuman3 OK#B:2101	-1.376341	1.45793E- 05	2.67916E -05	-5.079903	2090. 5	23511.5	23000	1

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
zinc finger, FYVE domain containing 21 (ZFYE21), mRNA	NP_076976.1	NM_024071.2	mwghuman3 OK#A:05642	-1.579562	0.0001142 53	0.000342 648	-4.238027	2094	2994.5	2740.25	0
forkhead box E1 (thyroid transcription factor 2) (FOXE1), mRNA	NP_004464.2	NM_004473.3	mwghuman3 OK#A:07899	-1.678652	1.3104E- 05	0.000192 131	-3.837954	2107	7269	5293.75	0
ensembl gencode prediction similar to per- hexamer repeat protein 5 loc149135		AL158168.17. 82811.114103 .1	mwghuman3 OK#C:5892	-1.54059	5.72345E- 05	8.88591E- 06	-4.136599	2114	28578	27753.75	
zinc finger, matrin type 1 (ZMAT1), transcript variant 3, mRNA		XM_089208	mwghuman3 OK#B:9694	-1.363387	0.0001055 64	3.77672E- 05	-3.9371	2131	27002.5	27249.5	
	NP_115817.1	NM_032441.1	mwghuman3 OK#C:0106	-1.423696	0.0001562 67	0.000211 886	-4.538065	2134. 5	20339.5	17190.25	2
endoplasmic reticulum to nucleus signalling 2 (ERN2), mRNA	NP_150296.2	NM_033266.2	mwghuman3 OK#B:9444	-1.735187	1.98165E- 05	2.70994E- 05	-4.509363	2135	24789	18903	0

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
ring finger protein 38 (RNF38), transcript variant 1, mRNA	NP_073618.3	NM_022781.3	mwghuman3 OK#B:5588	-1.302965	2.50283E- 06	2.15085E- 05	-4.986001	2138	24546.5	22148.75	1
Myc-induced mitochondria protein (mimitin), mRNA	NP_777549.1	NM_174889.2	mwghuman3 OK#B:3716	-1.474873	8.439E-05	0.000359 234	-4.207401	2151. 5	9215	7030.25	1
TGF beta- inducible nuclear protein 1 (TINP1), mRNA	NP_055701.1	NM_014886.2	mwghuman3 OK#A:06520	-1.655993	0.0003187 59	0.000571 767	-4.796546	2153	7530	5545.5	6
similar to developmental pluripotency associated 5; embryonal stem cell specific gene 1 (LOC341912), mRNA	XP_292301.3	XM_292301.3	mwghuman3 OK#B:8134	-1.639786	7.64251E- 07	4.32856E- 06	-5.437632	2155	18581.5	12815.25	1
dehydrogenas e/reductase (SDR family) member 3 (DHR33), mRNA	NP_004744.2	NM_004753.4	mwghuman3 OK#B:0738	-1.439285	4.39582E- 05	0.000222 464	-3.974197	2166. 5	4626	3570	3

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
flavin containing monooxygenas e 4 (FMO4), mRNA	NP_002013.1	NM_002022.1	mwghuman3 OK#B:2927	-1.804252	0.0001959 67	0.000222 464	-4.159771	2173. 5	21428	18241	1
ensembl genscan prediction		AC022526.4.9 087.13827.1	mwghuman3 OK#C:9081	-1.518222	0.0001264 09	0.000174 117	-4.437239	2174	25713.5	23316	
serologically defined colon cancer antigen 8 (SDGCAG8), mRNA	NP_006633.1	NM_006642.1	mwghuman3 OK#B:4992	-1.359218	5.81032E- 06	1.22937E- 05	-4.628131	2177. 5	18648	16566	4
CDC14 cell division cycle 14 homolog B (S. cerevisiae) (CDC14B), transcript variant 2, mRNA	NP_201588.1	NM_033331.1	mwghuman3 OK#B:0753	-1.438486	0.0001500 76	0.000245 124	-4.702655	2178. 5	23322	22971	2
myeloid/lymph oid or mixed- lineage leukemia (trithorax homolog, Drosophila); translocated to, 3 (MLLT3), mRNA	NP_004520.1	NM_004529.1	mwghuman3 OK#A:00725	-1.503791	3.87447E- 05	0.000311 603	-4.282874	2188	20164.5	17462	4

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
cytochrome P450, family 27, subfamily A, polypeptide 1 (CYP27A1), nuclear gene encoding mitochondrial protein, mRNA	NP_000775.1	NM_000784.2	mwghuman3 OK#A:07422	-1.399906	4.05019E- 05	3.91276E -05	-4.065883	2197	20714	13781.5	10
pre-trk cell associated protein 116 3' end		L17326	mwghuman3 OK#B:9025	-1.643879	5.92984E- 08	3.84322E -06	-5.055927	2201	6449.5	4787.5	
hepcidin antimicrobial peptide (HAMP), mRNA	NP_066998.1	NM_021175.2	mwghuman3 OK#A:06397	-1.279742	2.53831E- 05	1.72268E -05	-4.893297	2205. 5	3722.5	3385.25	0
ensembl genscan prediction		AC078819.13. 1.41283.1	mwghuman3 OK#C:7792	-1.349603	2.94705E- 06	7.88194E -05	-4.262185	2213	21381.5	17800.75	
hypothetical protein BC009862 (LOC90113), mRNA	XP_291077.3	XM_291077.3	mwghuman3 OK#B:3668	-1.769275	0.0003405 69	0.000454 027	-4.413577	2221. 5	6261.5	5176	0
elongation factor, RNA polymorase II, 2 (ELL2), mRNA	NP_036213.1	NM_012081.3	mwghuman3 OK#A:00356	-1.499648	5.40285E- 05	0.000157 701	-4.384409	2223. 5	14138	11702.5	4

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
FGFR1 oncogene partner (FGFR1OP), transcript variant 1, mRNA	NP_008976.1	NM_007045.2	mwghuman3 OK#B:4675	-1.513357	9.11409E- 05	0.000233 537	-4.085108	2228. 5	19894	19145.25	0
ensembl gensecan prediction EH domain binding protein 1 (EHBP1), mRNA		AC025953.2.1 16948.127472 .1	mwghuman3 OK#C:6647	-2.043219	0.0001551 45	0.000283 207	-3.955032	2231	21041	17429.5	
propionyl Coenzyme A carboxylase, alpha polypeptide (PCCA), mRNA	NP_056067.1	NM_015252.2	mwghuman3 OK#B:0385	-1.35833	2.50342E- 06	6.99321E- 05	-4.628579	2249. 5	13151.5	12131	5
	NP_000273.2	NM_000282.2	mwghuman3 OK#B:3551	-1.505038	6.411E-05	0.000110 999	-4.042034	2251	16323	13459	5
ensembl gensecan prediction		AL138499.4.1 .185713.1	mwghuman3 OK#C:4137	-1.655664	1.65577E- 05	8.59969E- 05	-3.700791	2252. 5	6728	6542.5	
ensembl gensecan prediction		AC025937.3.2 8407.38498.1	mwghuman3 OK#C:9420	-5.821331	1.29566E- 11	3.14688E- 07	-6.568115	2255. 5	3524	1068.5	

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
myocilin, trabecular meshwork inducible glucocorticoid response (MYOC), mRNA	NP_000252.1	NM_000261.1	mwghuman3 OK#A:09642	-1.364785	4.61814E- 05	2.61402E- 05	-4.638227	2263	23815.5	22357.25	0
hspc074		AF161337	mwghuman3 OK#B:1281	-1.61806	1.54965E- 06	1.54035E- 05	-4.426706	2264. 5	1792	1727	3
epoxide hydrolase 2, cytoplasmic (EPHX2), mRNA	NP_001970.2	NM_001979.4	mwghuman3 OK#A:08300	-1.416398	5.8666E- 06	5.81228E- 06	-4.695716	2267. 5	19752.5	16857	3
centromere protein C 1 (CENPC1), mRNA	NP_001803.2	NM_001812.2	mwghuman3 OK#A:10535	-1.578112	0.0001833 56	0.000192 131	-4.258306	2275	19346.5	14107.25	4
poly(A) polymerase beta (testis specific) (PAPOLB), mRNA	NP_064529.4	NM_020144.4	mwghuman3 OK#A:00034	-1.533242	0.0001793 94	0.000311 603	-4.111646	2284	24777	23772.75	1
oligonucleotide /oligosaccharid e-binding fold containing 1 (OBFC1), mRNA	NP_079204.1	NM_024928.3	mwghuman3 OK#A:07366	-1.597262	0.0001519 06	0.000150 05	-4.339099	2292	15940.5	11655	4

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
tripartite motif- containing 10 (TRIM10), transcript variant 1, mRNA	NP_006769.1	NM_006778.2	mwghuman3 OK#A:10515	-1.750912	5.52205E- 05	0.000135 784	-4.621742	2296. 5	4089.5	1565.5	0
Rap2-binding protein 9 (RPIB9), mRNA	NP_612147.1	NM_138290.1	mwghuman3 OK#B:7696	-1.451227	1.03873E- 06	1.37651E -05	-5.068475	2297	24136.5	22036.5	1
fksg17		NM_032031	mwghuman3 OK#B:1656	-1.576144	0.0001418 34	0.000233 537	-4.037961	2320. 5	2050	1701.75	1
G protein- coupled receptor 83 (GPR83), mRNA	NP_057624.2	NM_016540.2	mwghuman3 OK#A:05359	-1.472466	6.54909E- 05	0.000182 916	-3.811779	2322. 5	18971.5	15879.25	0
ensembl genscan prediction		AC078987.9.1 35718.144151 .1	mwghuman3 OK#C:4632	-1.300374	2.50018E- 05	1.72268E -05	-4.918105	2322. 5	25018.5	21332.5	
LIM homeobox 9 (LHX9), transcript variant 1, mRNA	NP_064589.2	NM_020204.2	mwghuman3 OK#B:8634	-1.374971	4.6951E- 06	9.24336E -06	-5.312469	2333. 5	16158	13872.25	0
pellino homolog 1 (Drosophila) (PELI1), mRNA	NP_065702.2	NM_020651.2	mwghuman3 OK#A:10770	-1.492094	8.8328E- 06	8.23838E -06	-5.23835	2336	22421.5	17524.5	7

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
hypothetical LOC401500 (LOC401500), mRNA	XP_379629.1	XM_379629.1	mwghuman3 OK#B:6223	-1.325858	2.27785E- 05	4.12788E- 05	-4.402696	2336. 5	26315	25320.25	0
TSC22 domain family, member 3 (TSC22D3), transcript variant 2, mRNA	NP_004080.2	NM_004089.3	mwghuman3 OK#B:0462	-1.491298	5.41371E- 05	1.72268E- 05	-5.010311	2350. 5	18693.5	13200.5	43
G protein- coupled receptor 51 (GPR51), mRNA	NP_005449.5	NM_005458.5	mwghuman3 OK#A:04815	-1.389185	0.0001017 06	2.98753E- 05	-4.845168	2361	3420	2489.25	0
chromosome 10 open reading frame 61 (C10orf61), transcript variant 2, mRNA	NP_056446.1	NM_015631.2	mwghuman3 OK#B:3105	-1.555923	0.0001770 95	0.000297 088	-4.510054	2366. 5	10134	8091.5	3
jumonji domain containing 2C (JMJD2C), mRNA	NP_055876.1	NM_015061.1	mwghuman3 OK#B:8433	-1.317474	6.41124E- 05	0.000142 749	-4.870495	2366. 5	24516.5	22272.75	11
zinc finger protein 547 (ZNF547), mRNA	NP_775902.2	NM_173631.2	mwghuman3 OK#B:6716	-1.63256	0.0002511 74	0.000257 25	-3.984452	2370	19484	19537	2

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
hypothetical protein FLJ20032 (FLJ20032), mRNA	NP_060098.2	NM_017628.2	mwghuman3 OK#B:2068	-1.74414	6.61052E- 05	0.000105 506	-4.166213	2374	15233.5	9767.75	16
ensembl gensecan prediction		AC064877.3.1 21131.166993 .1	mwghuman3 OK#C:7466	-1.319284	4.28953E- 05	2.03519E -05	-4.802131	2374	27348	26740.25	
ensembl gensecan prediction		AC027755.2.8 1287.97090.1	mwghuman3 OK#C:3411	-1.439071	0.0001259 01	0.000331 474	-4.145868	2378. 5	14385.5	10781.5	
KIAA0690 (KIAA0690), mRNA	NP_055994.1	NM_015179.2	mwghuman3 OK#B:7202	-1.642414	0.0001739 36	0.000433 377	-4.08872	2380	14459	11844.25	10
SH3 domain binding glutamic acid- rich protein like 2 (SH3BGRL2), mRNA	NP_113657.1	NM_031469.1	mwghuman3 OK#B:1794	-1.995457	0.0002796 76	0.000376 568	-4.033794	2381	9893.5	6985.75	3
cdna: flj21394 fis clone col03536 unnamed protein product		AK025047	mwghuman3 OK#B:2580	-2.258109	0.0004473 76	0.000359 234	-4.071961	2387. 5	17288	11926.75	0
hypothetical protein xp_039231 loc91565		XM_039231	mwghuman3 OK#B:6431	-1.337232	2.70835E- 05	0.000174 117	-4.141157	2398	24099.5	20885	

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
GPI anchored molecule like protein (GML), mRNA	NP_002057.1	NM_002066.1	mwghuman3 OK#A:02108	-1.438045	0.0000724 93	0.000129 14	-4.162956	2405	16818	14265.75	0
small nuclear RNA activating complex, polypeptide 5, 19kDa (SNAPC5), mRNA	NP_006040.1	NM_006049.1	mwghuman3 OK#B:0945	-1.323754	1.74702E- 05	0.000184 787	-4.006319	2444	17556.5	17969.25	6
ensembl genscan prediction		AC027689.10. 1.180573.5	mwghuman3 OK#C:9758	-1.644263	0.0002550 65	2.98753E- 05	-3.674603	2451	16829.5	10684.25	
mitochondrial tumor suppressor 1 (MTUS1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA	NP_0010019 24.1	NM_0010019 24.1	mwghuman3 OK#B:7775	-1.715161	0.0003036 63	0.000269 936	-4.435392	2461. 5	17489	15873	0
ensembl genscan prediction		AL049829.4.1 .196292.3	mwghuman3 OK#C:4548	-1.402914	1.70061E- 06	2.49927E- 06	-5.01844	2471	28131	26784	
ensembl genscan prediction		AC084842.1.7 903.10639.1	mwghuman3 OK#C:7638	-1.400793	0.0008120 94	7.36585E- 05	-5.107784	2475. 5	14235.5	11061.25	

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
SAFB-like, transcription modulator (SLTM), transcript variant 1, mRNA	NP_079031.2	NM_024755.2	mwghuman3 OK#B:2154	-1.309539	2.00445E- 05	0.000122 803	-4.680439	2477. 5	12490	12280	12
guanine nucleotide binding protein (G protein), alpha activating activity polypeptide, olfactory type (GNAL), transcript variant 2, mRNA	NP_002062.1	NM_002071.1	mwghuman3 OK#A:06286	-1.836112	0.0003002 6	0.000498 109	-4.10637	2478	19959	16690.75	0
similar to og14182 product loc146175		XM_085352	mwghuman3 OK#B:7365	-1.746066	0.0001949 23	0.000433 377	-3.812815	2487	14791.5	9814.5	
PH domain and leucine rich repeat protein phosphatase (PHLPP), mRNA	NP_919431.1	NM_194449.1	mwghuman3 OK#B:2242	-2.043619	0.0003079 45	0.000498 109	-4.006924	2500	15125	10009.75	7

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
autism susceptibility candidate 2 (AUTS2), mRNA	NP_056385.1	NM_015570.1	mwghuman3 OK#B:0110	-1.807633	0.0003692 99	0.000382 814	-4.213775	2503	18404	14412.75	8
hypothetical protein xp_097338 loc147909		XM_097338	mwghuman3 OK#B:5652	-1.428873	1.32234E- 06	2.67916E- 05	-4.387947	2513	4388	2991.75	
leucine-rich repeat- containing G protein-coupled receptor 4 (LGR4), mRNA	NP_060960.1	NM_018490.1	mwghuman3 OK#A:06106	-1.519205	7.81416E- 05	0.000122 803	-3.810559	2514. 5	21417.5	19684	2
ensembl prediction		ENSG000001 13407	mwghuman3 OK#C:2560	-1.740805	1.93346E- 05	9.52811E- 05	-4.388894	2525	8797.5	6359.5	
programmed cell death 1 (PDCD1), mRNA	NP_005009.1	NM_005018.1	mwghuman3 OK#B:9147	-1.519488	1.50412E- 06	3.41028E- 06	-5.713059	2537	8575	7118.5	0
cadherin 20, type 2 (CDH20), mRNA	NP_114097.2	NM_031891.2	mwghuman3 OK#B:7584	-1.393019	1.91884E- 05	2.73302E- 05	-4.362445	2538	15588	12275.75	0

Figure 6 (cont)

Gene name/ symbol	protein accession	mRNA ref seq accession	MWG Probe name	median fold change	t-test	Wilcoxon test	SAM	rank score	tumour tissue median intensity rank	non- malignant tissue median intensity rank	blood
glycine dehydrogenas e (decarboxylat in); glycine decarboxylase, glycine cleavage system protein P) (GLDC), mRNA	NP_000161.1	NM_000170.1	mwghuman3 OK#B:3959	-1.405054	9.33312E- 05	0.000116 76	-4.398207	2542. 5	6039	4550.5	1
protease, serine, 35 (PRSS35), mRNA	NP_699193.1	NM_153362.1	mwghuman3 OK#B:3364	-1.451818	0.0002370 39	0.000257 25	-4.319803	2545	16909	14109	0
ensembl genscan prediction ATP-binding cassette, sub- family A (ABC1), member 12 (ABCA12), transcript variant 1, mRNA		AC008134.3.1 .175132.1	mwghuman3 OK#C:3643	-1.601839	0.0003788 4	0.000286 633	-4.042534	2545	27071.5	25825	
suppressor of hairsty wing homolog 3 (Drosophila) (SUHW3), mRNA	NP_775099.2	NM_173076.2	mwghuman3 OK#B:3505	-1.653773	0.0002371 78	0.000475 592	-3.927921	2561. 5	19931	18593.5	0
	NP_060136.1	NM_017666.2	mwghuman3 OK#B:2904	-1.678106	0.0001863 59	0.000546 156	-3.864729	2568	17527	15364.5	1

Figure 6 (cont)

Gene name/symbol	protein accession	mRNA ref seq accession	median fold change	rank score	tumour issue median intensity rank	non-malignant tissue median intensity rank	blood EST number
hypothetical protein FLJ21511 (FLJ21511), mRNA	NP_079363.1	NM_025087.1	-2.080908	68	14455	9272.5	0
paired box gene 8 (PAX8), transcript variant PAX8A, mRNA	NP_003457.1	NM_003466.3	-1.961896	82	19419	12999.5	0
UPF3 regulator of nonsense transcripts homolog A (yeast) (UPF3A), transcript variant 1, mRNA	NP_075387.1	NM_023011.2	-3.84007	96.5	5663.5	1825	0
leukotriene B4 12-hydroxydehydrogenase (LTB4DH), mRNA	NP_036344.1	NM_012212.2	-5.034613	122.5	11340.5	3138	0
RAB11 family interacting protein 2 (class I) (RAB11FIP2), mRNA	NP_055719.1	NM_014904.1	-1.993629	156	19636.5	12951	0
TSC22 domain family, member 1 (TSC22D1), transcript variant 2, mRNA	NP_006013.1	NM_006022.2	-2.133065	156.5	8415	6130	1
sulfite oxidase (SUOX), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA	NP_000447.2	NM_000456.2	-1.622803	223	11312.5	8789.5	0
tetratricopeptide repeat domain 21A (TTC21A), mRNA	NP_665698.1	NM_145755.1	-2.976809	225	8375.5	3870.5	1
synaptotagmin-like 2 (SYTL2), transcript variant b, mRNA	NP_115755.2	NM_032379.3	-2.343357	342	19920	12053.5	0
wingless-type MMTV integration site family, member 2B (WNT2B), transcript variant WNT-2B1, mRNA	NP_004176.2	NM_004185.2	-10.745275	501	10716	2016.25	0
protocadherin gamma subfamily A, 12 (PCDHGA12), transcript variant 1, mRNA	NP_003726.1	NM_003735.2	-2.070447	511	2537	1931.5	0
olfactory receptor, family 1, subfamily D, member 5 (OR1D5), mRNA	NP_055381.1	NM_014566.1	-1.640751	539.5	1644	1134	0
G protein-coupled receptor 126 (GPR126), transcript variant b1, mRNA	NP_940371.1	NM_198569.1	-2.181735	549	15965.5	8040.75	0
ubiquitin specific peptidase 9, Y-linked (fat facets-like, Drosophila) (USP9Y), mRNA	NP_004645.2	NM_004654.3	-1.584065	587	10035.5	7858.25	1

Figure 7

Gene name/symbol	protein accession	mRNA ref seq accession	median fold change	rank score	tumour issue median intensity rank	non-malignant tissue median intensity rank	blood EST number
chromosome 11 open reading frame 1 (C11orf1), mRNA	NP_073598.1	NM_022761.1	-1.81726	673.5	12025.5	9585.25	0
BCL2-associated athanogene (BAG1), mRNA	NP_004314.3	NM_004323.3	-2.525417	776	9031	4503.5	1
family with sequence similarity 44, member B (FAM44B), mRNA	NP_612378.1	NM_138369.1	-1.357114	942.5	15308.5	13004.75	1
fibroblast growth factor receptor 4 (FGFR4), transcript variant 2, mRNA	NP_075252.2	NM_022963.2	-2.638426	1087.5	17096	9762.5	0
thyroid transcription factor 1 (TTF1), mRNA	NP_003308.1	NM_003317.3	-1.466987	1124.5	2139	1026.25	0
VprBP protein (VprBP), mRNA	NP_055518.1	NM_014703.1	-1.720326	1178	17312.5	14031	0
empty spiracles homolog 2 (Drosophila) (EMX2), mRNA	NP_004089.1	NM_004098.2	-1.745086	1199.5	19380	10749.25	0
homeo box D8 (HOXD8), mRNA	NP_062458.1	NM_019558.2	-1.41555	1206	9672.5	7512.25	0
zinc finger protein 626 (ZNF626), mRNA	NP_660340.1	NM_145297.2	-1.773183	1266	14806.5	10341	1
ring finger protein 44 (RNF44), mRNA	NP_055716.1	NM_014901.4	-1.353366	1292	6288.5	4664.5	1
pyrimidinergic receptor P2Y, G-protein coupled, 4 (P2RY4), mRNA	NP_002556.1	NM_002565.3	-1.732075	1309	18307	12139.5	0
similar to hypothetical protein (LOC440804), mRNA	XP_036936.3	XM_036936.3	-4.049648	1332	3647	996.5	0
chromosome 20 open reading frame 152 (C20orf152), mRNA	NP_543024.1	NM_080834.1	-1.948612	1349	10775	8652.5	0
folistatin-like 4 (FSTL4), mRNA	NP_055897.1	NM_015082.1	-1.544042	1405.5	17051	12319	0
chromosome 14 open reading frame 168 (C14orf168), mRNA	NP_113615.1	NM_031427.1	-1.512002	1414	15738	14705.75	1
kallikrein 8 (neuropsin/ovasin) (KLK8), transcript variant 2, mRNA	NP_653088.1	NM_144505.1	-2.091505	1449.5	8391	6488	0
leucine zipper, down-regulated in cancer 1-like (LDOC1L), mRNA	NP_115663.2	NM_032287.2	-1.501021	1454.5	16509.5	14157	0
hypothetical protein MGC11242 (MGC11242), mRNA	NP_077296.1	NM_024320.2	-1.527839	1463.5	17565	13134.5	0
KIAA1274 (KIAA1274), mRNA	NP_055246.1	NM_014431.1	-1.41942	1488.5	8059	5065	0
hypothetical LOC401510 (LOC401510), mRNA	XP_376843.2	XM_376843.2	-1.402922	1504	13882.5	11233.25	0

Figure 7 (cont)

Gene name/symbol	protein accession	mRNA ref seq accession	median fold change	rank score	tumour issue median intensity rank	non-malignant tissue median intensity rank	blood EST number
plastin 1 (l isoform) (PLS1), mRNA	NP_002661.1	NM_002670.1	-1.626206	1509.5	20943	14040.5	1
zinc finger, DHHC-type containing 2 (ZDHHC2), mRNA	NP_057437.1	NM_016353.2	-1.588633	1536	13684.5	10087.5	0
cone-rod homeobox (CRX), mRNA	NP_000545.1	NM_000554.2	-3.022299	1543	16588.5	7500.5	0
PHD finger protein 23 (PHF23), mRNA	NP_077273.1	NM_024297.1	-1.398461	1657.5	10656.5	9355.75	0
nasopharyngeal carcinoma associated gene protein-8 (NAG8), mRNA	NP_055226.1	NM_014411.2	-1.388055	1660	15731.5	12161	0
HERV-H LTR-associating 3 (HHLA3), transcript variant 3, mRNA	NP_001031722.1	NM_001036645.1	-2.043346	1759	13925.5	11798	0
fibronectin leucine rich transmembrane protein 3 (FLRT3), transcript variant 1, mRNA	NP_037413.1	NM_013281.2	-4.204569	1770	18156	9231.25	0
cell division cycle associated 7 (CDCA7), transcript variant 1, mRNA	NP_114148.2	NM_031942.3	-1.959598	1788	14826	12577.25	1
pyruvate dehydrogenase kinase, isozyme 4 (PDK4), mRNA	NP_002603.1	NM_002612.2	-1.735687	1911.5	18067	13997.25	1
leucine rich repeat and sterile alpha motif containing 1 (LRSAM1), transcript variant 1, mRNA	NP_612370.3	NM_138361.3	-2.034574	1959.5	7671.5	4421.75	1
guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1 (GNAI1), mRNA	NP_002060.4	NM_002069.4	-1.631361	2003	16803.5	14082	1
cerebral endothelial cell adhesion molecule 1 (CEECAM1), mRNA	NP_057258.2	NM_016174.3	-1.516413	2014	16662.5	13757.75	0
hypothetical protein FLJ22965 (FLJ22965), mRNA	NP_071384.1	NM_022101.2	-1.903469	2041.5	2596	2337	0
chromosome 9 open reading frame 102 (C9orf102), transcript variant 1, mRNA	NP_064592.1	NM_020207.2	-1.369819	2049	16457.5	13970	0
pleckstrin and Sec7 domain containing 3 (PSD3), transcript variant 1, mRNA	NP_056125.2	NM_015310.2	-1.395381	2072	14023	13223.25	1
zinc finger, FYVE domain containing 21 (ZFYE21), mRNA	NP_078976.1	NM_024071.2	-1.579562	2094	2994.5	2740.25	0
forkhead box E1 (thyroid transcription factor 2) (FOXE1), mRNA	NP_004464.2	NM_004473.3	-1.678652	2107	7269	5293.75	0

Figure 7 (cont)

Gene name/symbol	protein accession	mRNA ref seq accession	median fold change	rank score	tumour issue median intensity rank	non-malignant tissue median intensity rank	blood EST number
Myc-induced mitochondria protein (mifitin), mRNA	NP_777549.1	NM_174889.2	-1.474873	2151.5	9215	7030.25	1
similar to developmental pluripotency associated 5; embryonal stem cell specific gene 1 (LOC341912), mRNA	XP_292301.3	XM_292301.3	-1.639786	2155	18581.5	12815.25	1
hepcidin antimicrobial peptide (HAMP), mRNA	NP_066998.1	NM_021175.2	-1.279742	2205.5	3722.5	3385.25	0
hypothetical protein BC009862 (LOC90113), mRNA	XP_291077.3	XM_291077.3	-1.769275	2221.5	6261.5	5176	0
tripartite motif-containing 10 (TRIM10), transcript variant 1, mRNA	NP_006769.1	NM_006778.2	-1.750912	2296.5	4089.5	1565.5	0
fksg17 fksg17		NM_032031	-1.576144	2320.5	2050	1701.75	1
LIM homeobox 9 (LHX9), transcript variant 1, mRNA	NP_064589.2	NM_020204.2	-1.374971	2333.5	16158	13872.25	0
G protein-coupled receptor 51 (GPR51), mRNA	NP_005449.5	NM_005458.5	-1.389185	2361	3420	2489.25	0
cdna: flj21394 fis clone col03536 unnamed protein product		AK025047	-2.258109	2387.5	17288	11926.75	0
GPI anchored molecule like protein (GML), mRNA	NP_002057.1	NM_002066.1	-1.438045	2405	16818	14265.75	0
programmed cell death 1 (PDCD1), mRNA	NP_005009.1	NM_005018.1	-1.519488	2537	8575	7118.5	0
cadherin 20, type 2 (CDH20), mRNA	NP_114097.2	NM_031891.2	-1.393019	2538	15588	12275.75	0
glycine dehydrogenase (decarboxylating; glycine decarboxylase, glycine cleavage system protein P) (GLDC), mRNA	NP_000161.1	NM_000170.1	-1.405054	2542.5	6039	4550.5	1
protease, serine, 35 (PRSS35), mRNA	NP_699193.1	NM_153362.1	-1.451818	2545	16909	14109	0

Figure 7 (cont)

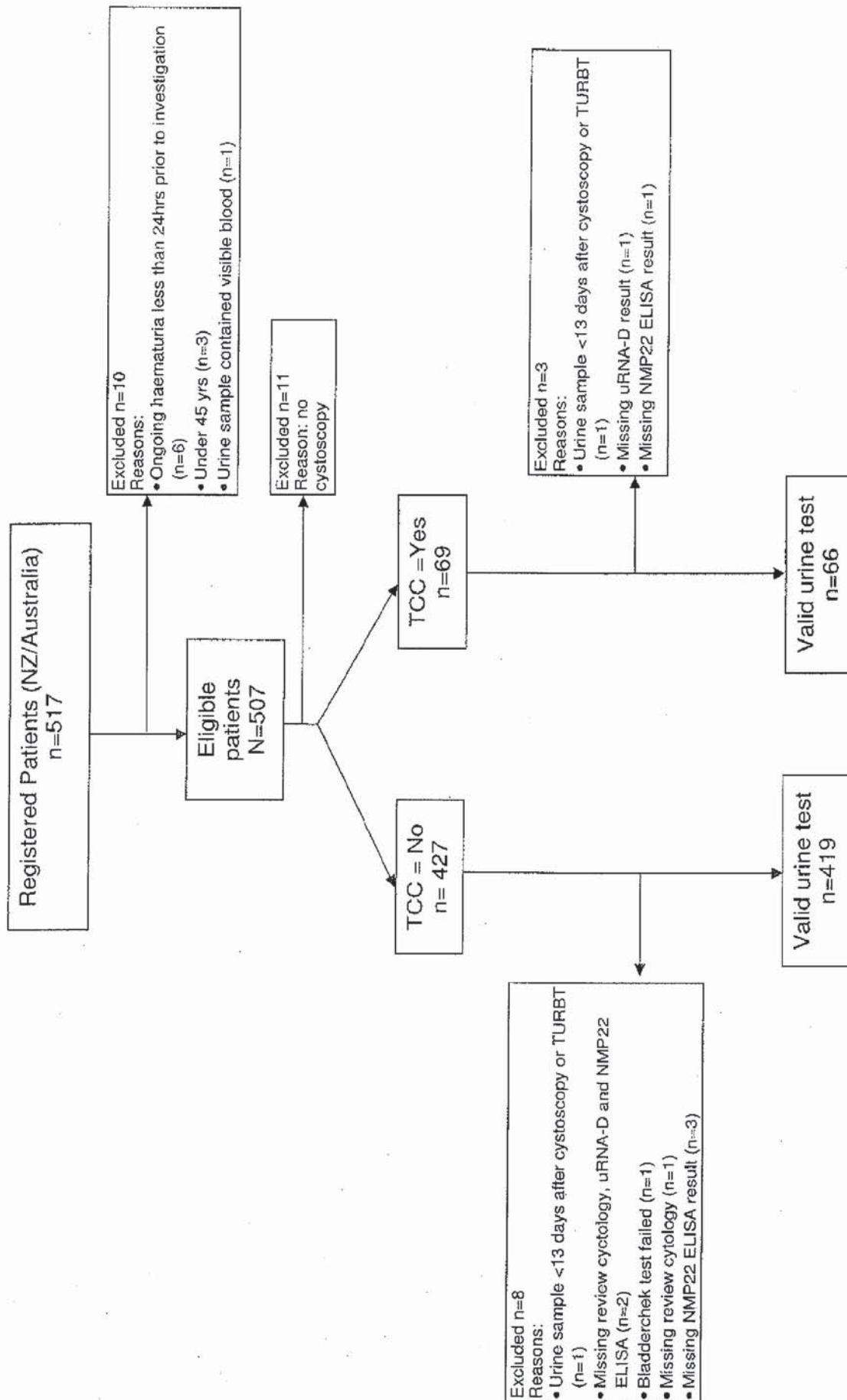


Figure 8

	No specific diagnosis (N=164)	Non-malignant disease (N=255)	TCC (N=66)	Overall (N=485)
Country, n (%)				
New Zealand	147 (89.6)	239 (93.7)	64 (97.0)	450 (92.8)
Australia	17 (10.4)	16 (6.27)	2 (3.0)	35 (7.2)
Age, median (IQ range)	64 (55, 75)	71 (62, 78)	71 (63, 80)	69 (59, 77)
Sex, n (%)				
Male	112 (68.3)	216 (84.7)	61 (92.4)	389 (80.2)
Female	52 (31.7)	39 (15.3)	5 (7.5)	96 (19.8)
Ethnicity, n (%)				
European	133 (81.1)	228 (89.4)	62 (93.9)	423 (87.2)
Maori	15 (9.1)	17 (6.7)	1 (1.5)	33 (6.8)
Other	16 (9.8)	10 (3.9)	3 (4.5)	29 (6.0)
Haematuria, n (%)				
Years since onset				
<6 mths	131 (79.9)	198 (77.6)	57 (86.4)	386 (79.6)
6 mths-1 yr	11 (6.7)	25 (9.8)	6 (9.1)	42 (8.7)
1-2 yrs	11 (6.7)	18 (7.1)	3 (4.5)	32 (6.6)
3-5 yrs	5 (3.0)	5 (2.0)	0 (0.0)	10 (2.1)
> 5 yrs	6 (3.7)	9 (3.5)	0 (0.0)	15 (3.1)
End of last episode				
1-7 days	9 (5.5)	26 (10.2)	20 (30.3)	55 (11.3)
8-28 days	14 (8.5)	27 (10.6)	13 (19.7)	54 (11.1)
1-2 Months	60 (36.6)	86 (33.7)	14 (21.2)	160 (33.0)
3-6 Months	70 (42.7)	100 (39.2)	19 (28.8)	189 (39.0)
> 6 months	11 (6.7)	15 (5.9)	0 (0.0)	26 (5.4)
Unknown	0 (0.0)	1 (0.4)	0 (0.0)	1 (0.2)
Frequency				
<=1 per day	104 (63.4)	160 (62.7)	30 (45.5)	294 (60.6)
>1 per day	59 (36.0)	95 (37.3)	36 (54.5)	190 (39.2)
Unknown	1 (0.6)	0 (0.0)	0 (0.0)	1 (0.2)
Smoking status, n (%)				
Current smoker	34 (20.7)	28 (11.0)	14 (21.2)	76 (15.7)
Ex-smoker	66 (40.2)	114 (44.7)	35 (53.0)	215 (44.3)
Never smoker	64 (39.0)	113 (44.3)	17 (25.8)	194 (40.0)

Figure 9

Test	Overall Sensitivity	Overall Specificity
uRNA-D	62.1% (49.3, 73.8)	85.2% (fixed)
NMP22 Elisa	50.0% (37.4, 62.6)	88.0% (84.6, 91.0)
NMP22 BladderChek	37.9% (26.2, 50.7)	96.4% (94.2, 98.0)
Cytology*	56.1% (43.3, 68.3)	94.5 (91.9, 96.5)
Five Genes (including IL8BRb)†	81.8%	85.1% (fixed)
Five Genes (including IL8BRb)† (90% specificity)	72.7%	89.9% (fixed)

* Included in determination of TCC for some patients

† Determined on study data so confidence intervals are not presented

Figure 10

Fig 11a.

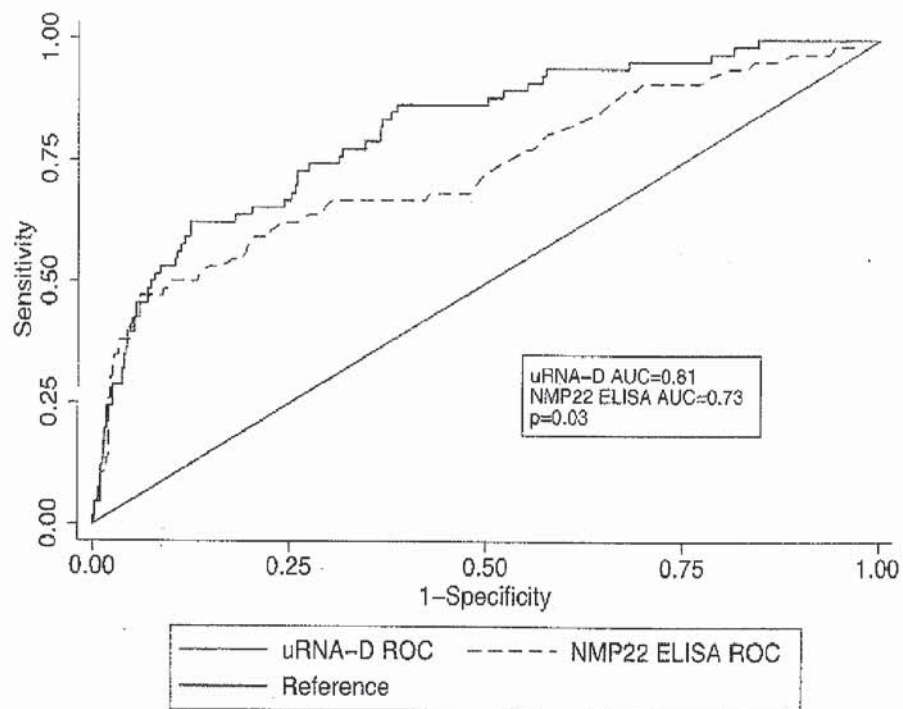


Fig 11b.

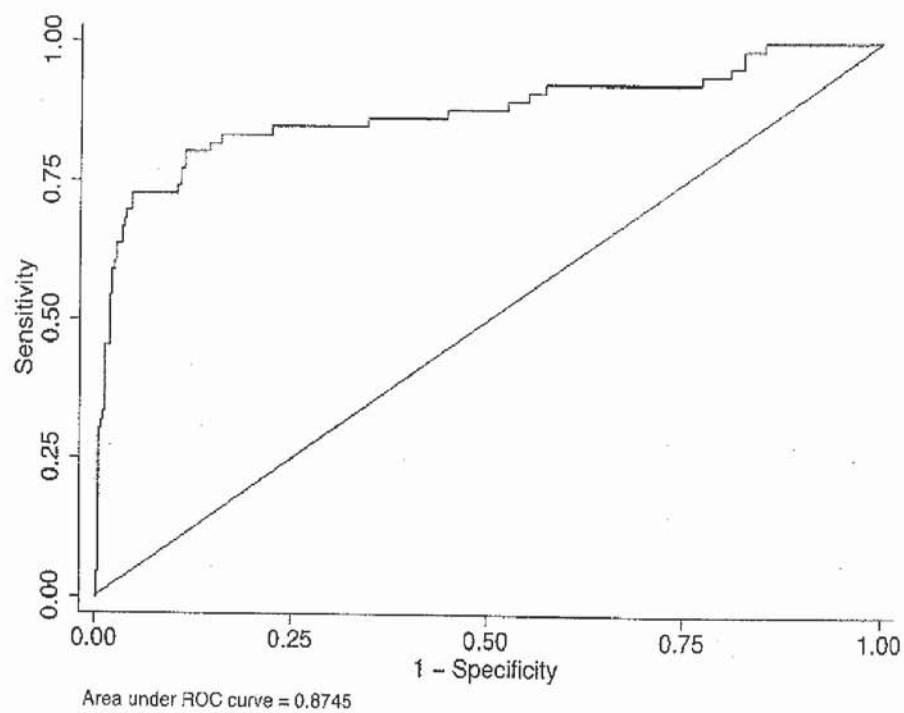


Figure 11

	Cytology	NMP22 Elisa	BladderChek	uRNA-D	Five Markers
Stage (n=66)	n, % (95% CI)	n, % (95% CI)	n, % (95% CI)	n, % (95% CI)	n, %
Tis (n=2)	2, 100% (16, 100)	0, 0% (0, 84)	0, 0% (0, 84)	1, 50% (1, 99)	2, 100%
Ta (n=37)	13, 35% (20, 53)	13, 35% (20, 53)	14, 38% (22, 55)	15, 41% (25, 58)	25, 68%
T1 (n=16)	11, 69% (41, 89)	12, 75% (48, 93)	8, 50% (25, 75)	15, 94 (70, 100)	16, 100%
T2 (n=9)	9, 100% (66, 100)	6, 67% (30, 93)	2, 22% (3, 60)	9, 100 (66, 100)	9, 100%
≥T3 (n=2)	2, 100% (16, 100)	2, 100% (16, 100)	1, 50% (11, 99)	1, 50% (13, 99)	2, 100%
Grade WHO 73 (n=65)					<i>p*=0.019</i>
1 (n=3)	1, 33% (1, 91)	1, 33% (1, 91)	1, 33% (1, 91)	1, 33% (1, 91)	1, 33%
2 (n=38)	17, 44% (29, 62)	15, 39% (24, 57)	13, 34% (20, 51)	21, 55% (38, 71)	29, 76%
3 (n=24)	19, 79% (58, 93)	17, 71% (49, 87)	11, 46% (26, 67)	19, 79% (58, 93)	23, 96%
Grade WHO ISUP 1998 (n=65)					<i>p*=0.016</i>
Low (n=32)	9, 28% (14, 47)	10, 31% (16, 50)	13, 41% (24, 59)	13, 41% (24, 59)	22, 69%
Mixed (n=4)	4, 100% (40, 100)	3, 75% (19, 99)	1, 25% (1, 81)	4, 100 (40, 100)	4, 100%
High (n=29)	24, 83% (64, 94)	20, 69% (49, 85)	11, 38% (21, 58)	24, 83% (64, 94)	28, 97%
Tumour location (n=66)					<i>p*=0.012</i>
Bladder (n=62)	35, 56% (43, 69)	30, 48% (35, 61)	25, 40% (28, 54)	39, 63% (50, 75)	50, 81%
Up. tract (n=4)	2, 50% (7, 93)	3, 75% (19, 99)	0, 0% (0, 60)	2, 50% (7, 93)	4, 100%
Multiplicity (n=66)					<i>p*=0.33</i>
Single (n=52)	27, 52% (38, 66)	23, 44% (30, 59)	17, 33% (20, 47)	30, 58% (43, 71)	41, 79%
Multifocal (n=13)	10, 77% (46, 95)	10, 77% (46, 95)	8, 62% (32, 86)	11, 85% (55, 98)	12, 92%
Microhaematuria (n=65)					<i>p*=0.43</i>
Yes (n=43)	27, 63% (47, 77)	27, 63% (47, 77)	20, 47% (31, 62)	31, 72% (56, 85)	41, 95%
No (n=22)	9, 41% (21, 64)	5, 23% (8, 45)	4, 18% (5, 40)	9, 41% (21, 64)	12, 55%
Creatinine (n=55)					<i>p*<0.0005</i>
0-4.3 (n=11)	5, 45 (17, 77)	3, 27% (6, 61)	4, 36% (11, 69)	4, 36% (11, 69)	7, 64%
4.3-7.1 (n=14)	9, 64% (35, 87)	6, 43% (18, 71)	4, 29% (8, 58)	8, 57% (29, 82)	12, 86%
7.1-11.2 (n=22)	11, 50% (28, 72)	14, 64% (41, 83)	11, 50% (28, 72)	16, 73% (50, 89)	18, 82%
≥11.2 (n=8)	6, 75% (35, 97)	3, 38% (9, 76)	2, 25% (3, 65)	6, 75% (35, 97)	8, 100%
Sex (n=66)					<i>p*=0.29</i>
Male (n=61)	35, 57% (44, 70)	29, 48% (35, 61)	23, 38% (26, 51)	37, 61% (47, 73)	49, 80%
Female (n=5)	2, 40% (5, 85)	4, 80% (28, 99)	2, 40% (5, 85)	4, 80% (28, 99)	5, 100%
					<i>p*=0.58</i>

*p-values from Fisher's exact test of association between each TCC characteristic and Cxbladder test result

Figure 12

	Cytology	NMP22 Elisa	NMP22 BladderChek	uRNA-D*	Five Markers*
	n, % 95% CI)	n, % 95% CI)	n, % 95% CI)	n, %	n, %
Diagnosis					
No diagnosis (n=164)					
	154, 94% (89, 97)	144, 88% (82, 92)	160, 98% (94, 99)	144, 88%	144, 88%
Non-malignant diagnosis					
Benign prostatic hypertrophy/prostatitis (n=130)					
	123, 95% (89, 98)	117, 90% (84, 95)	127, 98% (93, 100)	113, 87%	109/128=85%
Cystitis/infection or inflammation of the urinary tract (n=39)					
	36, 92% (79, 98)	34, 87% (73, 96)	34, 87% (73, 96)	28, 72%	32, 82%
Calculi (n=28)					
	25, 89% (72, 98)	23, 82% (63, 94)	27, 96% (82, 100)	20, 71%	19, 68%
Haematuria secondary to warfarin (n=10)					
	10, 100% (69, 100)	9, 90% (55, 100)	10, 100% (69, 100)	8, 80%	8, 80%
Other urological cancer (n=5)					
	5, 100% (48, 100)	4, 80% (28, 99)	5, 100% (48, 100)	5, 100%	4, 80%
Microhaematuria (n=417)					
					<i>pt=0.12</i>
Yes n=99	87, 88% (80, 94)	81, 82% (73, 89)	91, 92% (85, 96)	74, 75%	73/97=75%
No n=318	307, 97% (94, 98)	287, 90% (86, 93)	311, 98% (96, 99)	281, 88%	279/317=88%
Creatinine (n=386)					
					<i>pt=0.002</i>
0 – 4.3, n=97	95, 98% (93, 100)	90, 93% (86, 97)	95, 98% (93, 100)	87, 90%	83/96=86%
4.3 – 7.1, n=94	92, 98% (93, 100)	81, 86% (78, 92)	90, 96% (89, 99)	81, 86%	84/93=90%
7.1 – 11.2, n=92	79, 86% (77, 92)	83, 90% (82, 95)	90, 98% (92, 100)	76, 83%	76/92=83%
≥11.2, n=103	101, 98% (93, 100)	91, 88% (81, 94)	101, 98% (93, 100)	88, 85%	82/102=80%
Sex (n=419)					
					<i>pt=0.32</i>
Male n=328	311, 95% (92, 97)	290, 88% (84, 92)	316, 96% (94, 98)	291, 89%	280/325=86%
Female, n=91	85, 93% (86, 98)	79, 87% (78, 93)	88, 97% (91, 99)	65, 71%	74/91=81%
					<i>pt=0.25</i>

*overall specificity fixed at 85%

[†]p-value from Chi square test of association between each characteristic (diagnosis, microhaematuria, creatinine sex) and Cxbladder test result

Figure 13

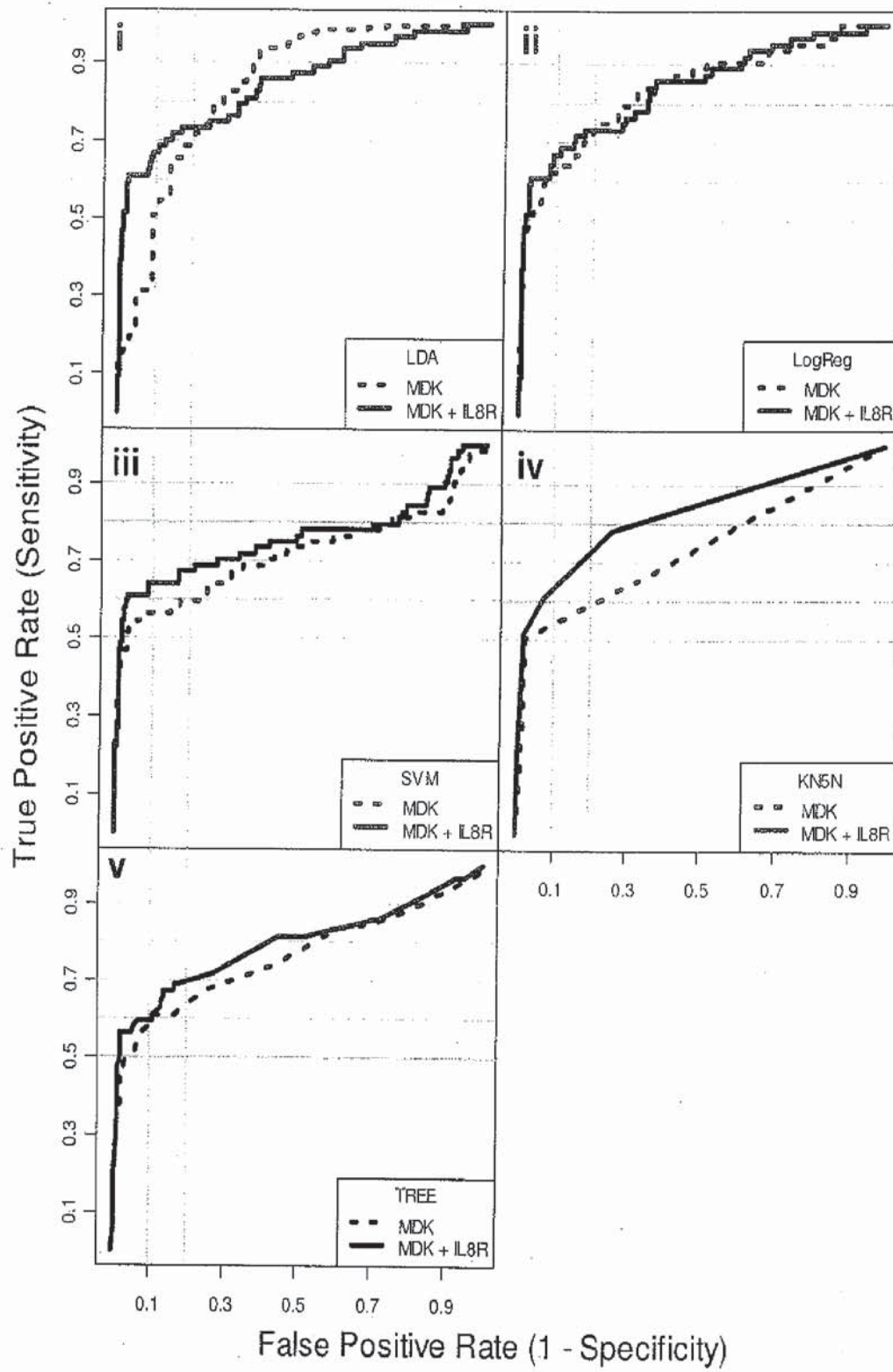
Genes: MDK ($\pm$ IL8R)

Figure 14a

Genes: CDC ($\pm$ IL8R)

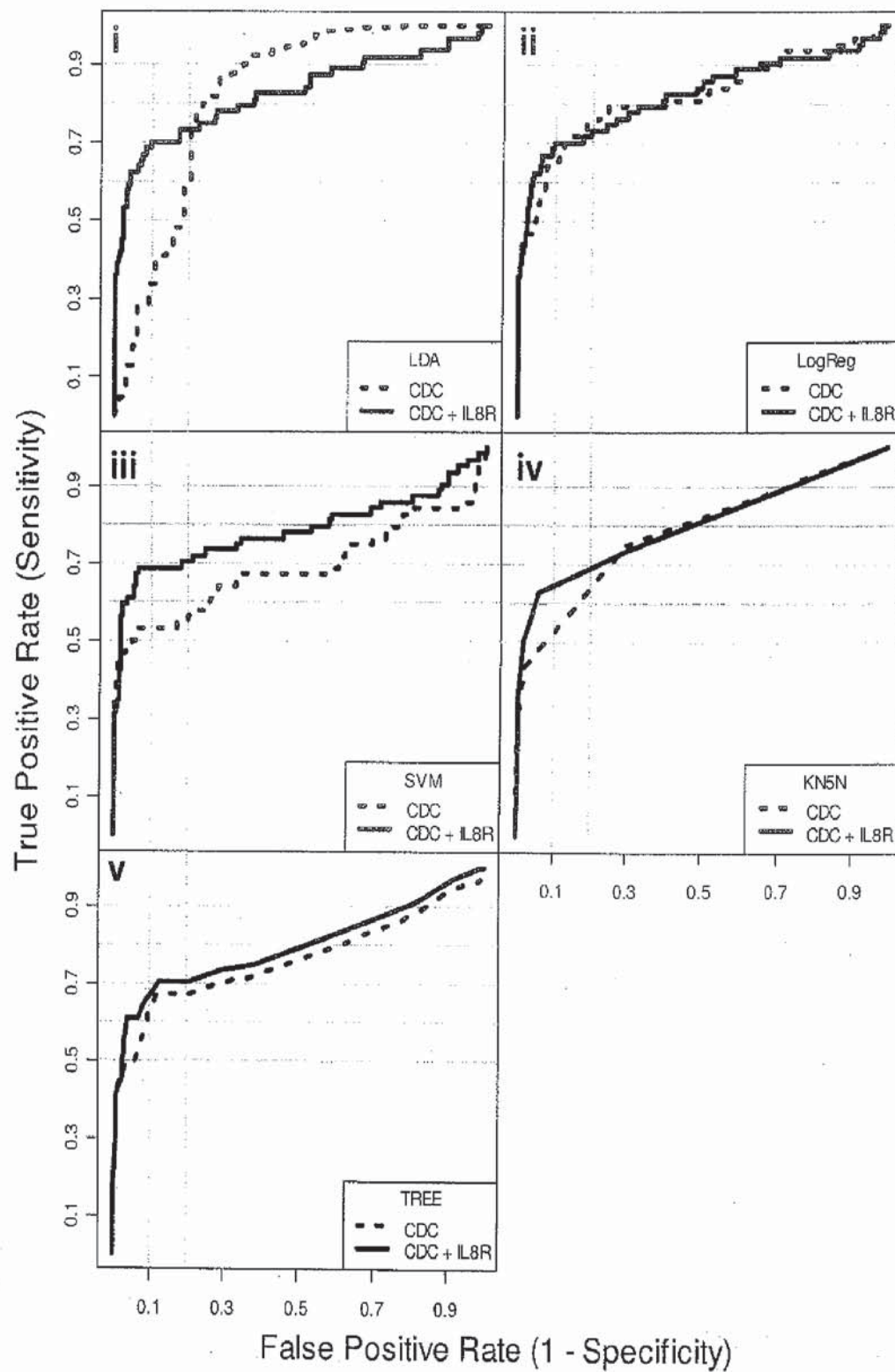


Figure 14b

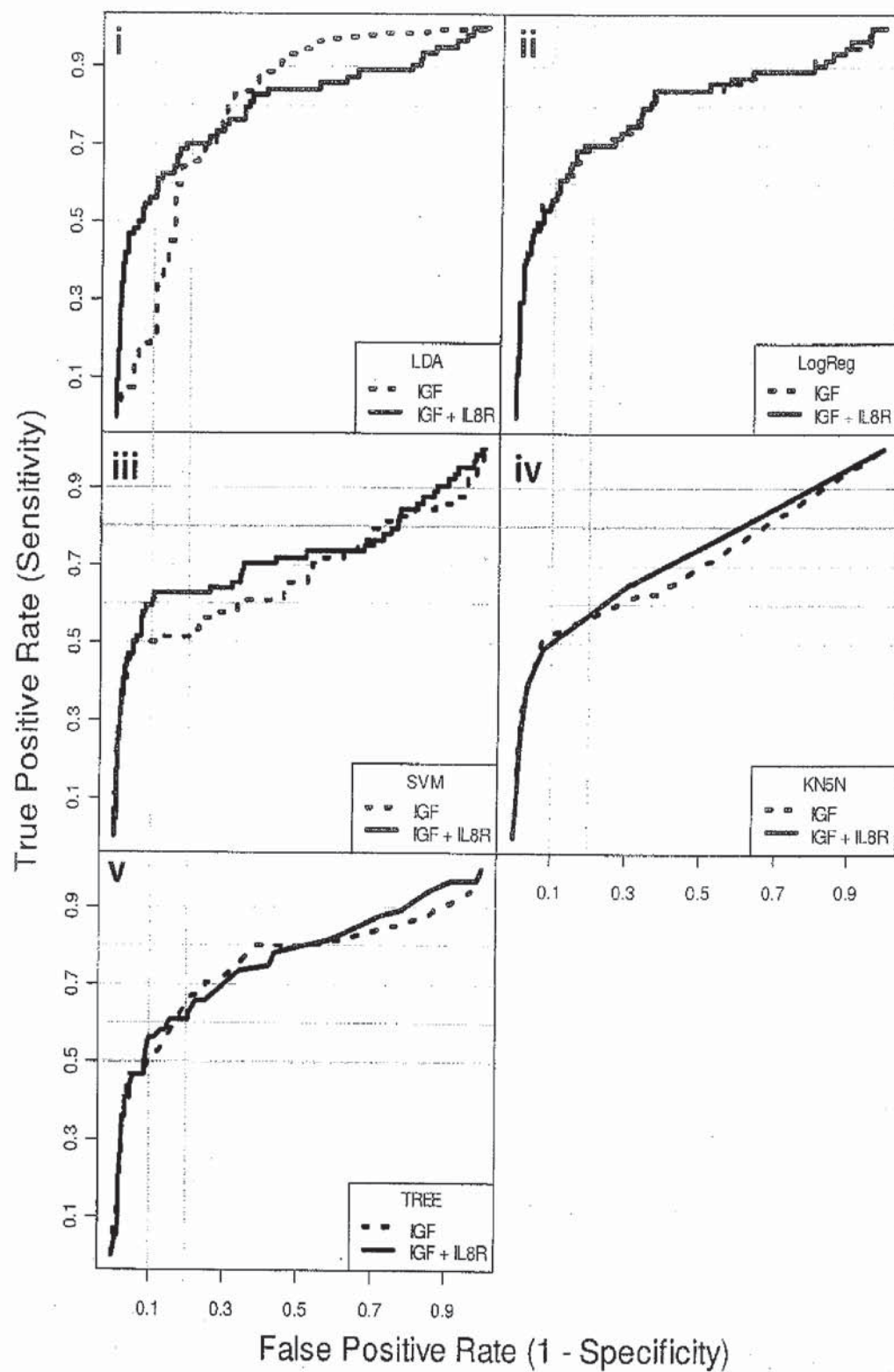
Genes: IGF ($\pm$ IL8R)

Figure 14c

Genes: HOXA ($\pm$ IL8R)

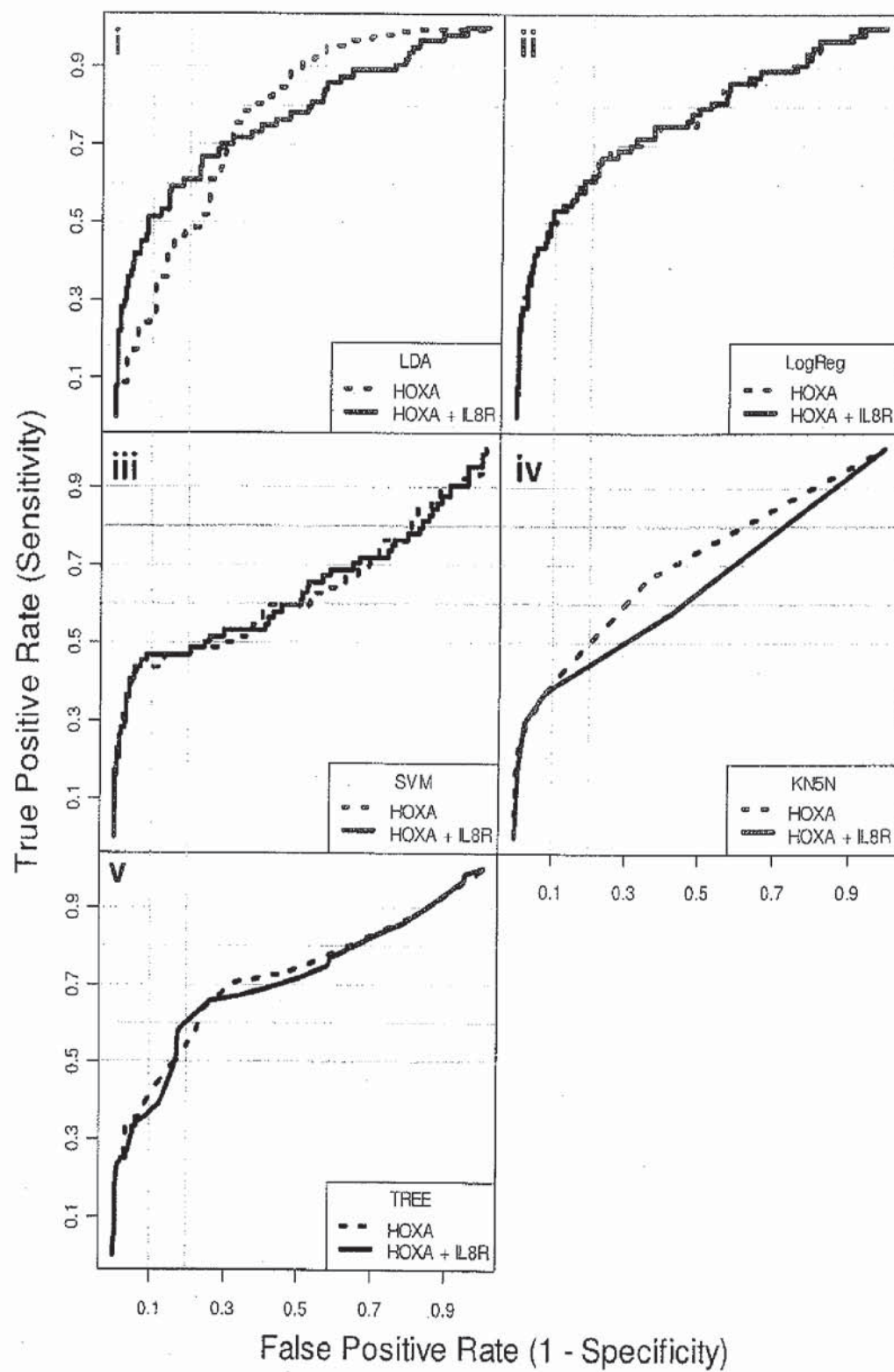


Figure 14d

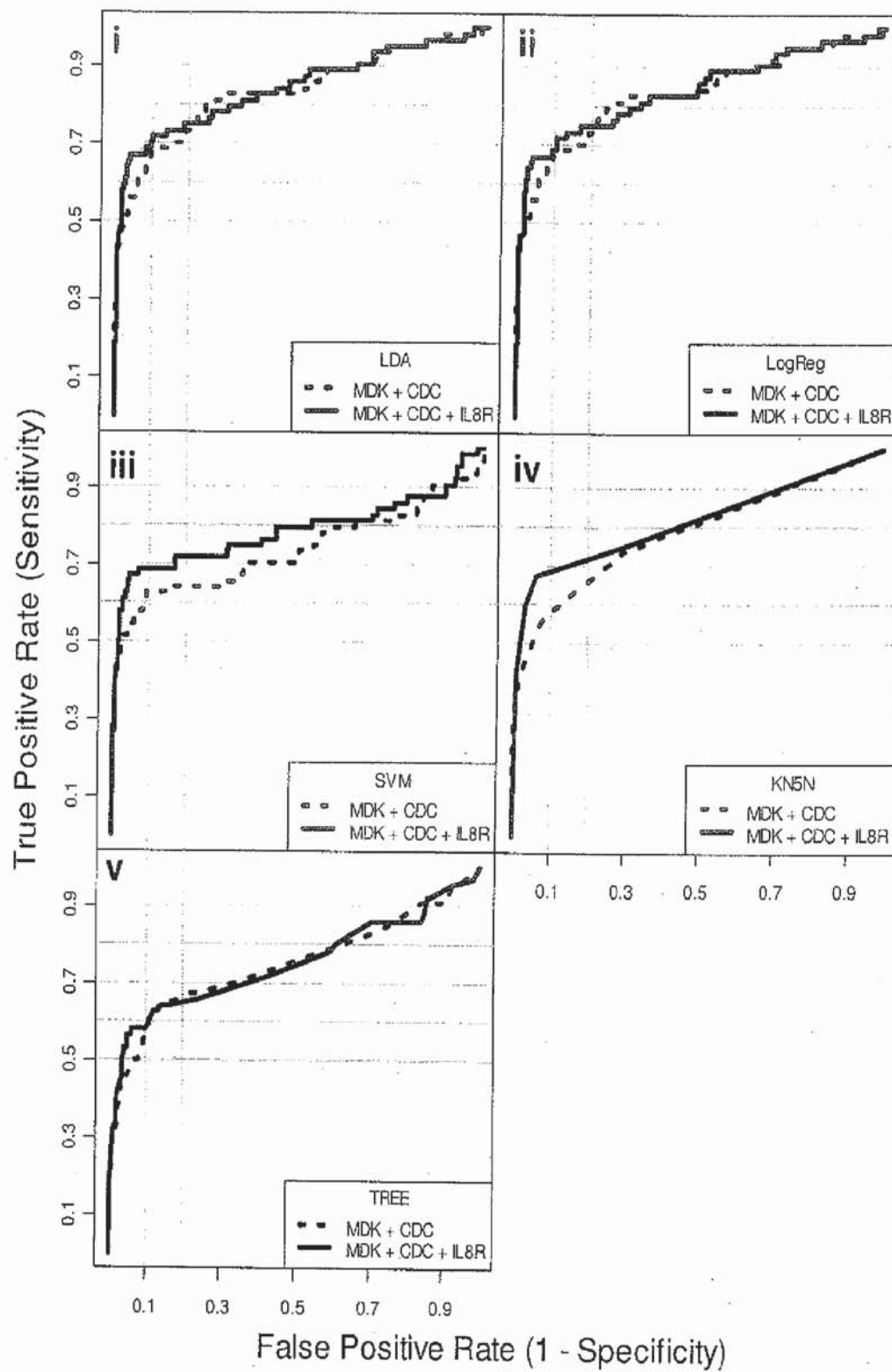
Genes: MDK + CDC ($\pm$ IL8R)

Figure 14e

Genes: MDK + IGF ($\pm$ IL8R)

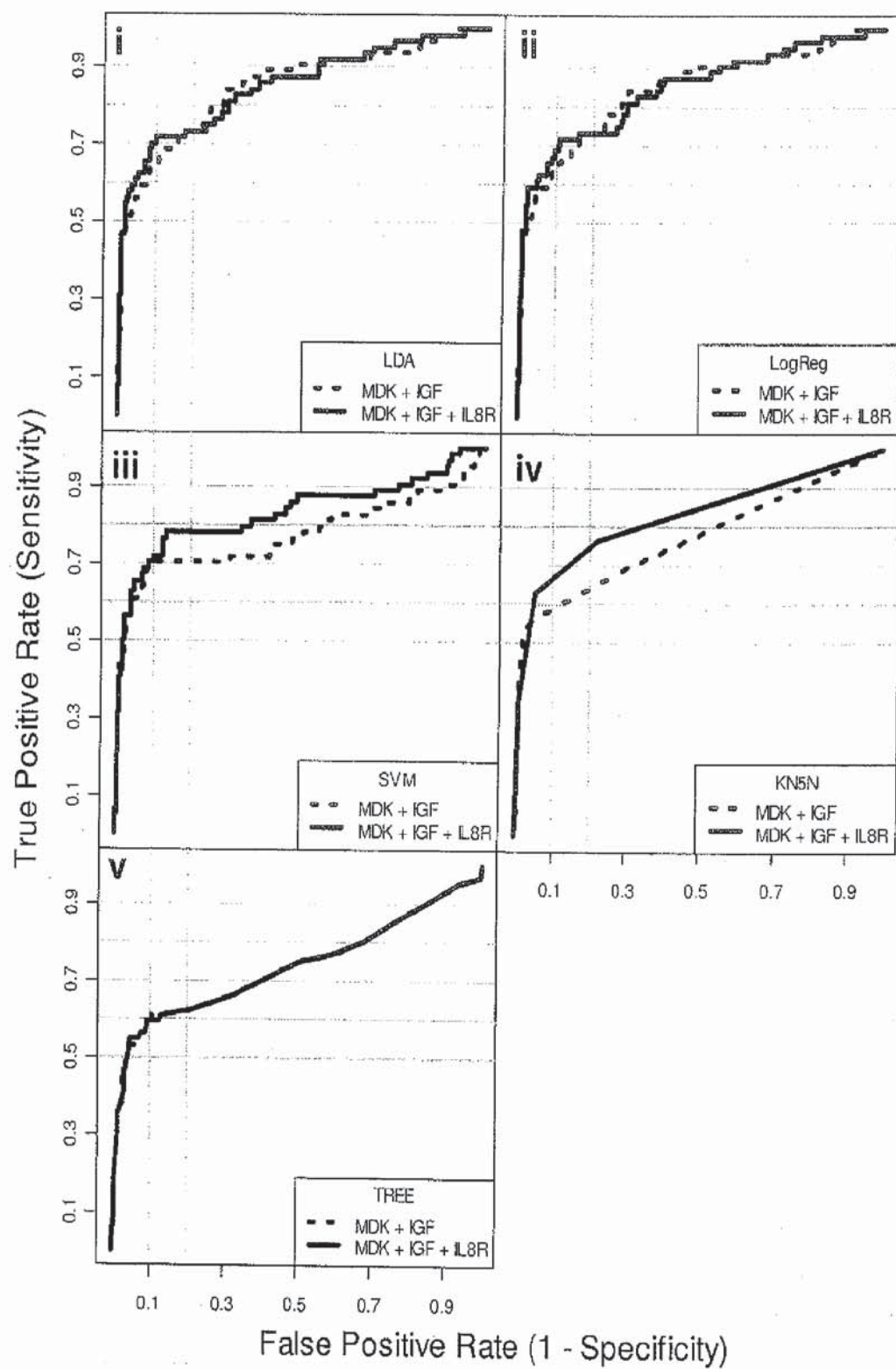


Figure 14f

Genes: MDK + HOXA ($\pm$ IL8R)

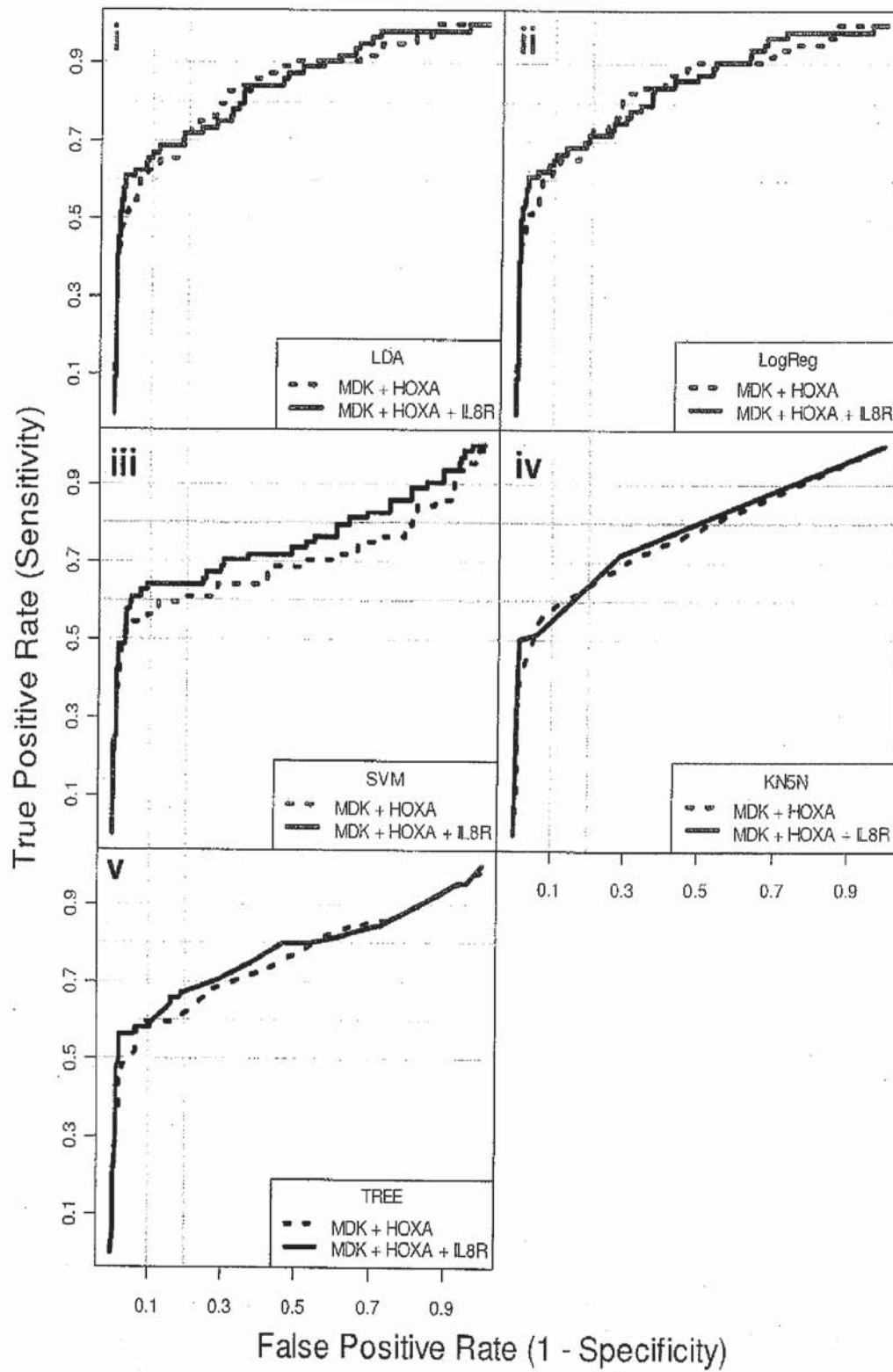


Figure 14g

Genes: CDC + IGF ($\pm$ IL8R)

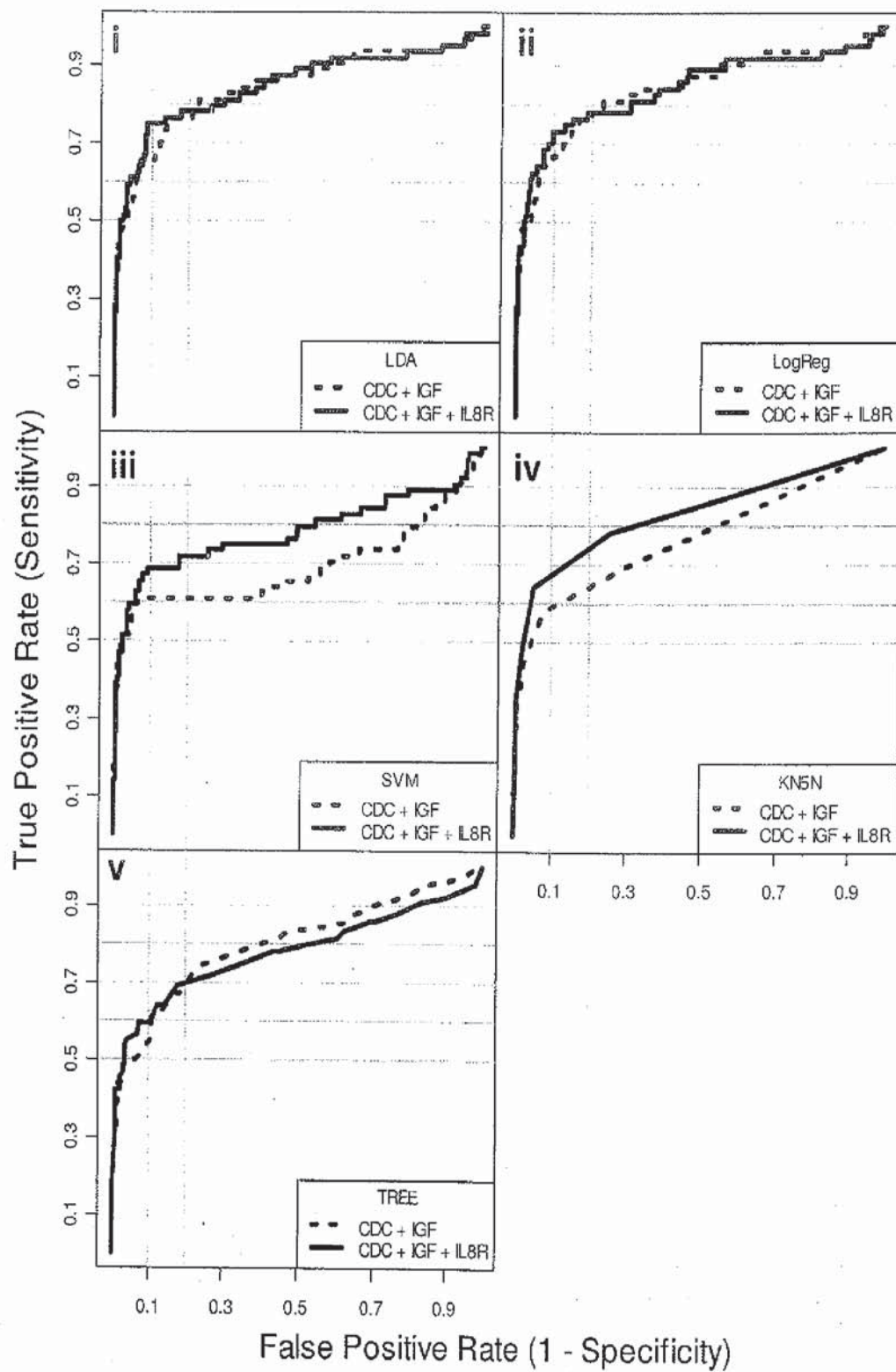


Figure 14h

Genes: CDC + HOXA ($\pm$ IL8R)

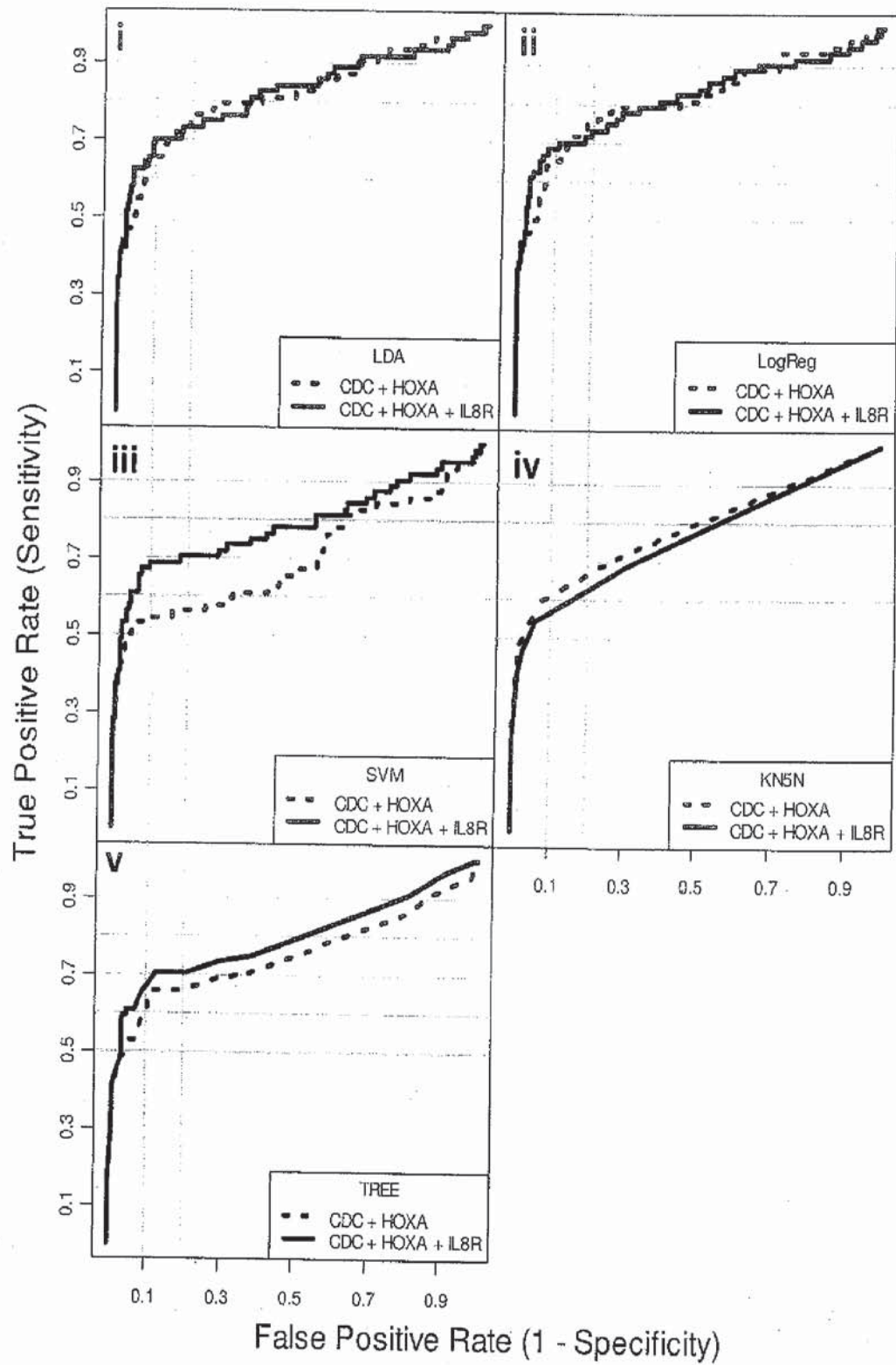


Figure 14j

Genes: IGF + HOXA ($\pm$ IL8R)

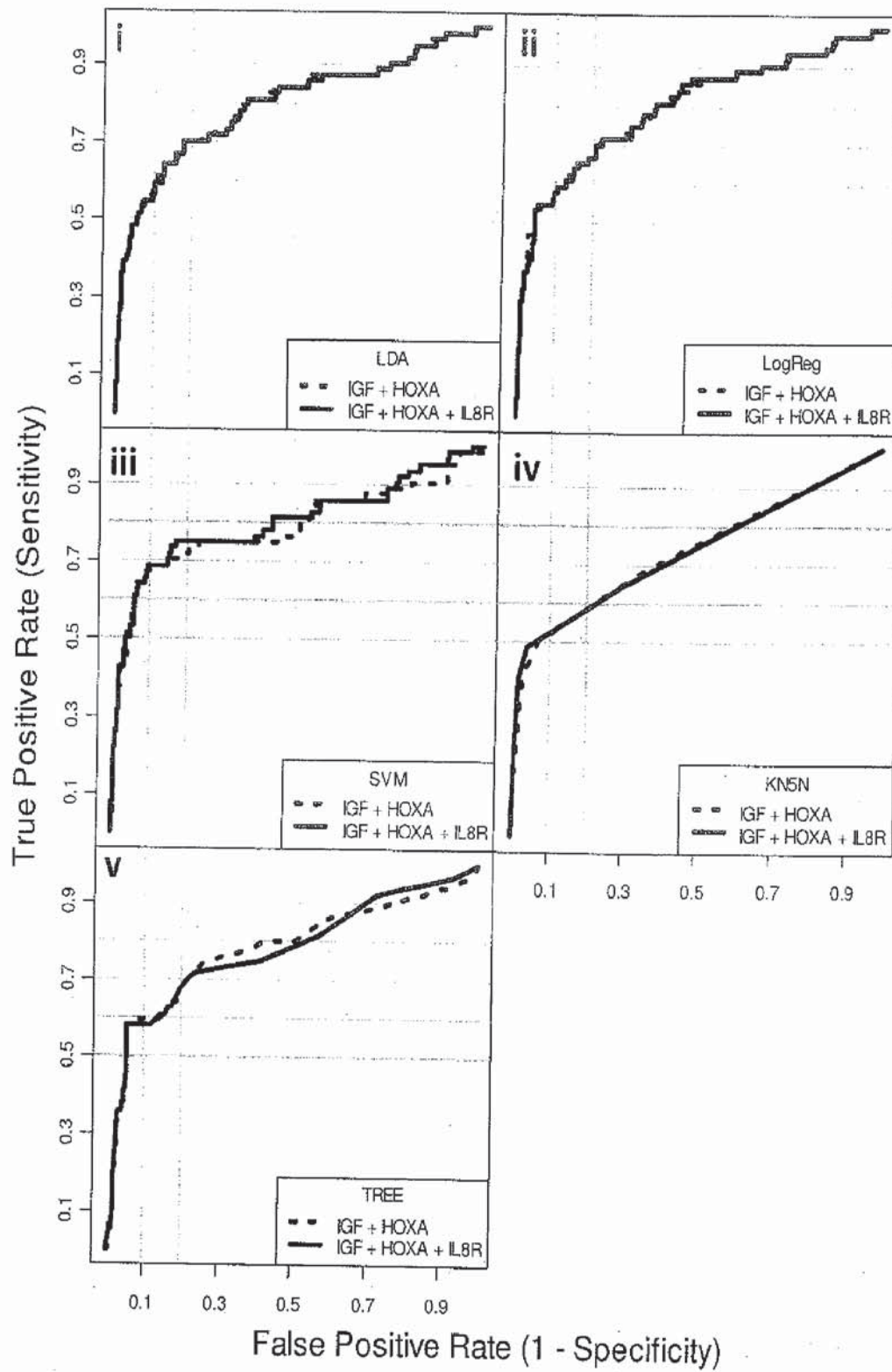


Figure 14j

Genes: MDK + CDC + IGF ($\pm$ IL8R)

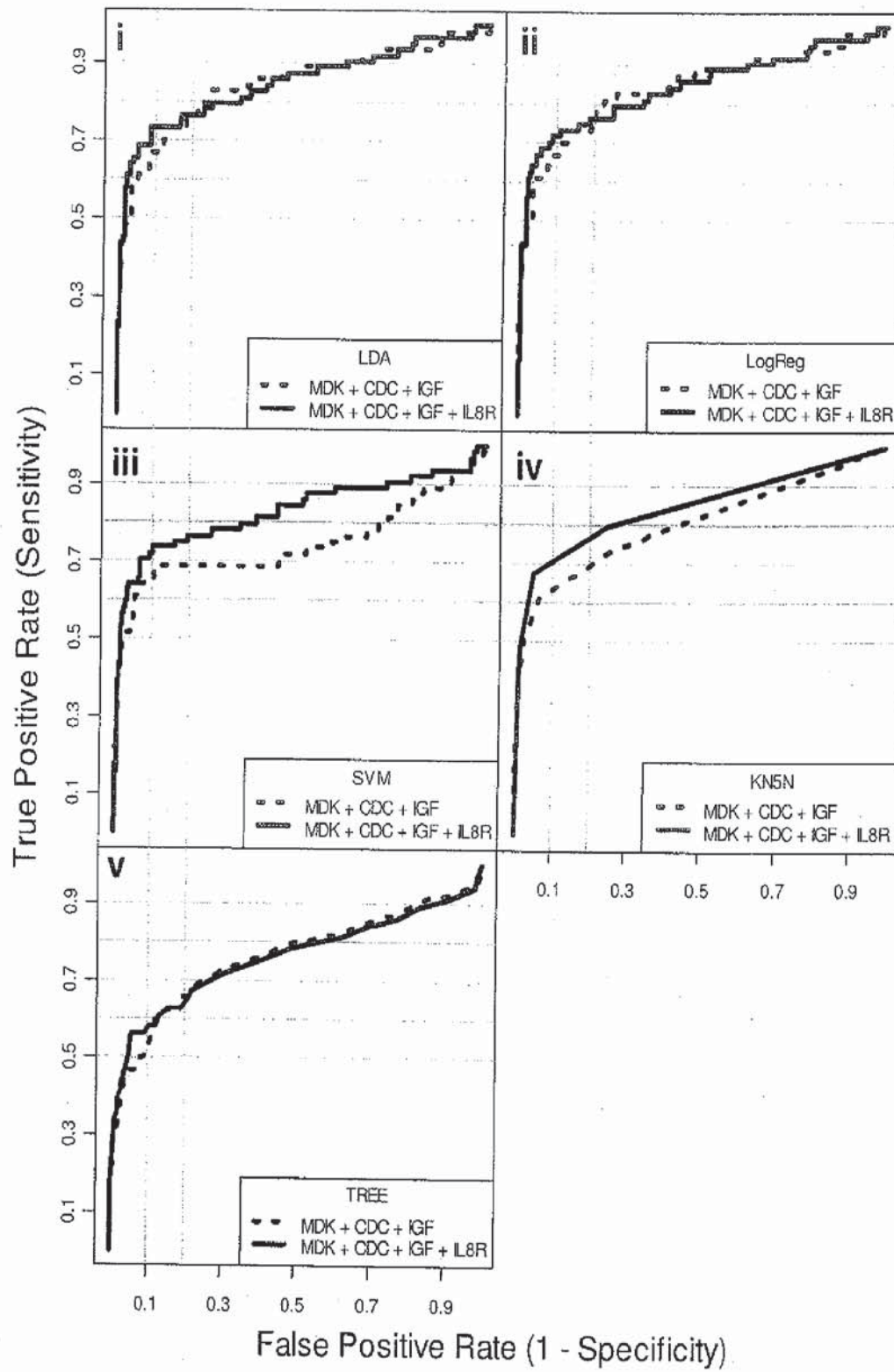


Figure 14k

Genes: MDK + CDC + HOXA ($\pm$ IL8R)

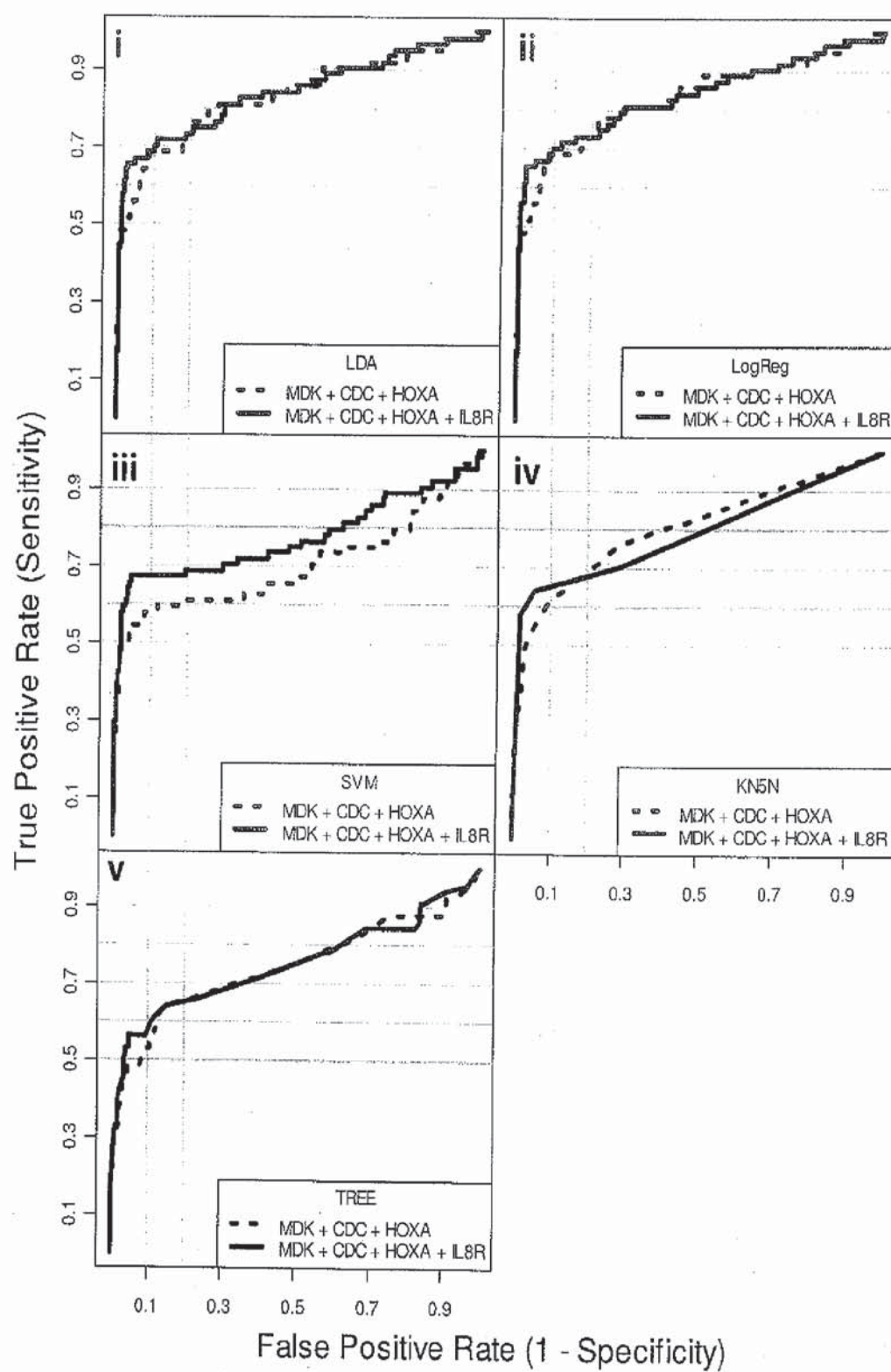


Figure 14I

Genes: MDK + IGF + HOXA ($\pm$ IL8R)

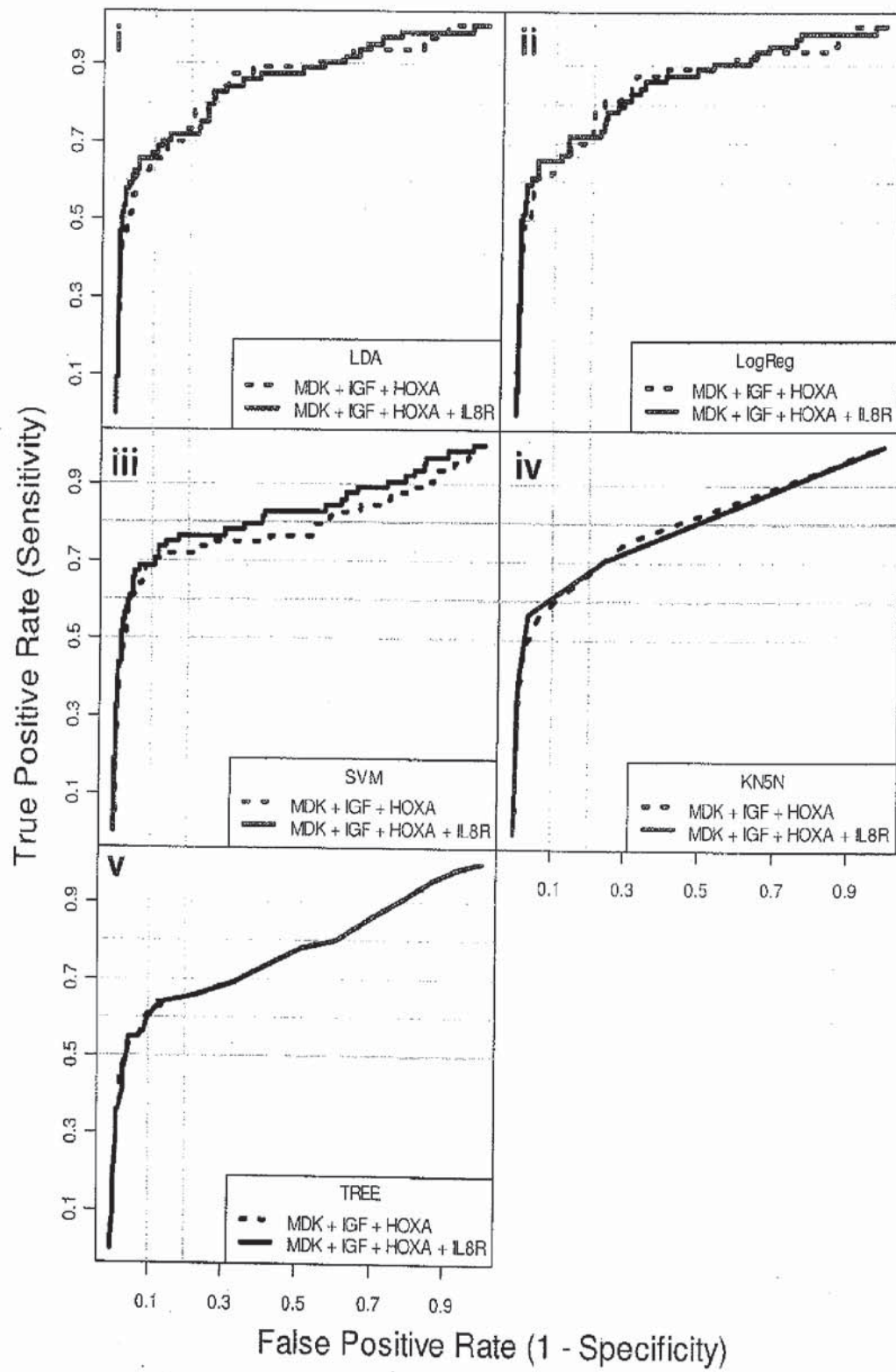


Figure 14m

Genes: CDC + IGF + HOXA ($\pm$ IL8R)

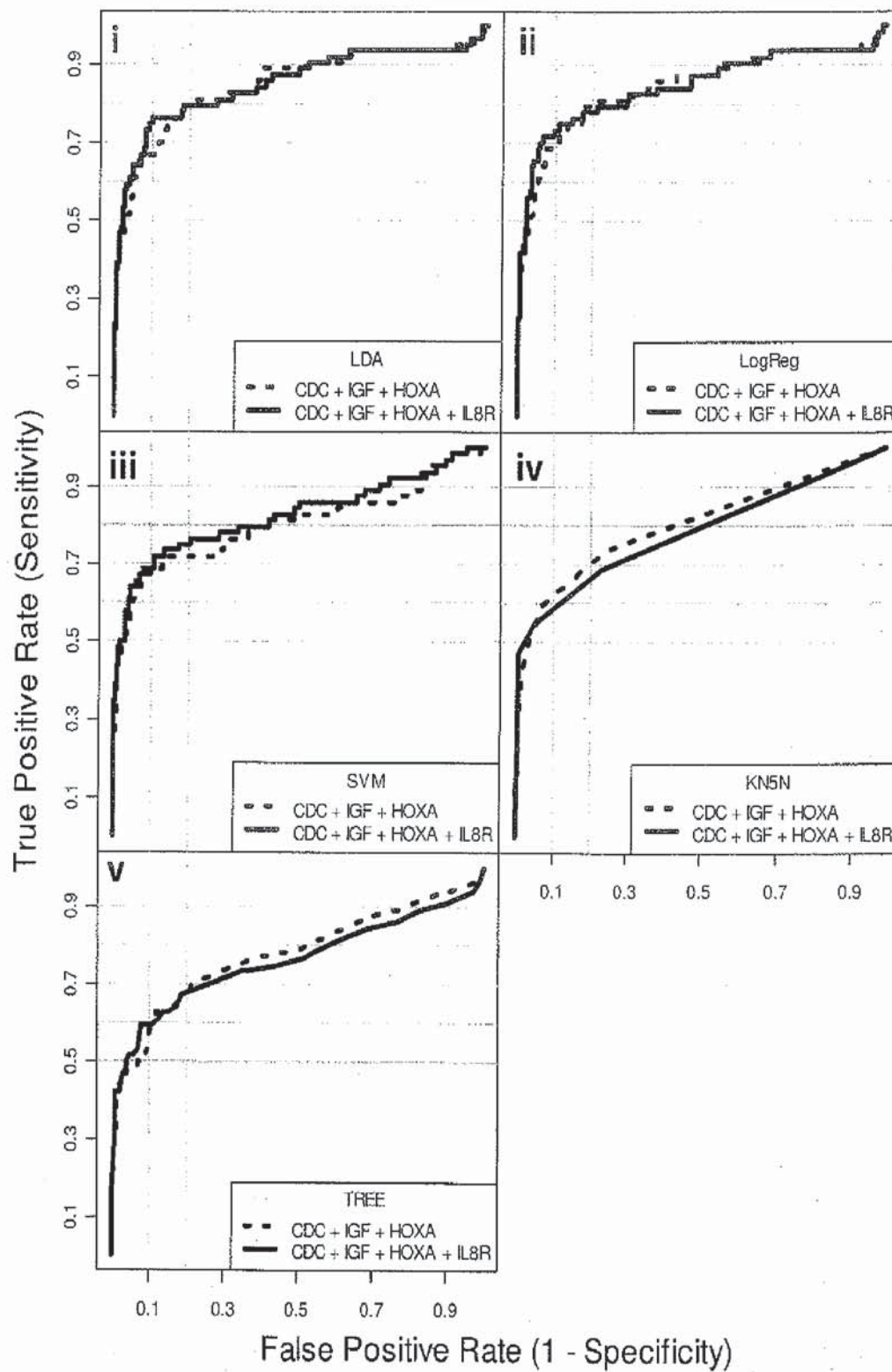


Figure 14n

Genes: MDK + CDC + IGF + HOXA ($\pm$ IL8R)

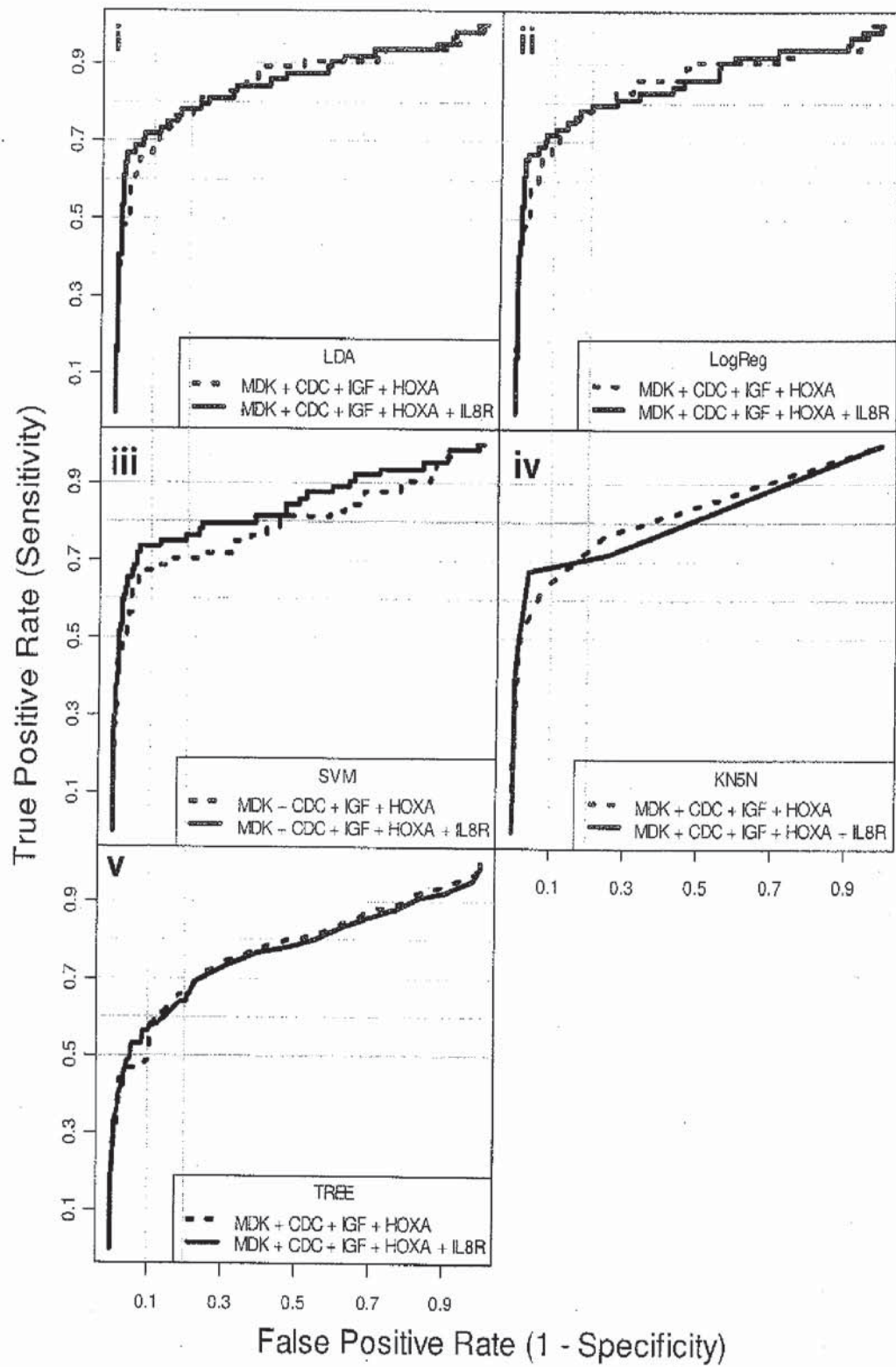


Figure 14o

Model	LDA		LogReg		SVM		KN5N		TREE	
	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb
MDK	0.087	0.127	0.119	0.127	0.107	0.121	0.100	0.120	0.107	0.117
CDC2	0.062	0.129	0.124	0.129	0.102	0.127	0.102	0.121	0.114	0.124
IGFBP5	0.060	0.108	0.109	0.108	0.094	0.107	0.093	0.090	0.093	0.096
HOXA13	0.058	0.094	0.094	0.094	0.082	0.084	0.075	0.071	0.078	0.075
MDK + CDC2	0.124	0.134	0.124	0.133	0.115	0.131	0.109	0.128	0.107	0.111
MDK + IGFBP5	0.122	0.129	0.121	0.129	0.125	0.133	0.111	0.122	0.107	0.107
MDK + HOXA13	0.119	0.126	0.118	0.125	0.108	0.118	0.107	0.107	0.107	0.114
CDC2 + IGFBP5	0.128	0.134	0.127	0.133	0.114	0.125	0.109	0.125	0.109	0.115
CDC + HOXA13	0.122	0.128	0.123	0.129	0.103	0.125	0.116	0.108	0.113	0.123
IGF + HOXA13	0.109	0.109	0.108	0.107	0.119	0.121	0.096	0.098	0.102	0.101
MDK + CDC2 + IGFBP5	0.127	0.135	0.127	0.135	0.123	0.134	0.119	0.132	0.103	0.108
MDK + CDC2 + HOXA13	0.125	0.133	0.125	0.134	0.109	0.127	0.113	0.122	0.104	0.111
MDK + IGFBP5 + HOXA13	0.122	0.128	0.121	0.127	0.126	0.132	0.111	0.115	0.110	0.109
CDC2 + IGFBP5 + HOXA13	0.129	0.136	0.131	0.136	0.126	0.131	0.117	0.114	0.108	0.111
MDK+CDC2+IGFBP5+HOXA13	0.130	0.137	0.130	0.138	0.124	0.137	0.122	0.129	0.103	0.106

Area Under the ROC Curve (AUC) for False Positive Rate from 0.00 to 0.20

Figure 15a

Model	LDA	LogReg	SVM	KN5N	TREE
MDK	0.040	0.008	0.014	0.019	0.010
CDC2	0.067	0.005	0.025	0.018	0.009
IGFBP5	0.048	-0.001	0.013	-0.003	0.002
HOXA13	0.036	0.000	0.001	-0.004	-0.003
MDK + CDC2	0.009	0.009	0.015	0.019	0.005
MDK + IGFBP5	0.007	0.007	0.008	0.011	-0.000
MDK + HOXA13	0.007	0.007	0.010	0.000	0.007
CDC2 + IGFBP5	0.007	0.006	0.012	0.016	0.006
CDC + HOXA13	0.006	0.006	0.022	-0.007	0.010
IGF + HOXA13	0.000	-0.001	0.002	0.002	-0.000
MDK + CDC2 + IGFBP5	0.009	0.008	0.012	0.013	0.004
MDK + CDC2 + HOXA13	0.008	0.008	0.018	0.009	0.006
MDK + IGFBP5 + HOXA13	0.006	0.006	0.006	0.004	-0.001
CDC2 + IGFBP5 + HOXA13	0.006	0.006	0.005	-0.003	0.004
MDK+CDC2+IGFBP5+HOXA13	0.007	0.007	0.013	0.007	0.002

Gain in AUC (over FPR from 0.0 to 0.2)

Figure 15b

a	Model	LDA		LogReg		SVM		KN5N		TREE	
		-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb
	MDK	0.721	0.734	0.734	0.734	0.594	0.672	0.531	0.781	0.625	0.688
	CDC2	0.753	0.734	0.750	0.734	0.562	0.703	0.750	0.734	0.672	0.703
	IGFBP5	0.657	0.703	0.688	0.703	0.516	0.625	0.516	0.656	0.656	0.609
	HOXA13	0.486	0.609	0.625	0.609	0.484	0.469	0.406	0.375	0.547	0.578
	MDK + CDC2	0.734	0.750	0.734	0.750	0.641	0.719	0.734	0.750	0.672	0.641
	MDK + IGFBP5	0.734	0.734	0.734	0.734	0.703	0.781	0.688	0.766	0.625	0.625
	MDK + HOXA13	0.719	0.719	0.734	0.719	0.609	0.641	0.703	0.719	0.609	0.672
	CDC2 + IGFBP5	0.766	0.781	0.766	0.781	0.609	0.719	0.688	0.781	0.672	0.688
	CDC + HOXA13	0.750	0.734	0.750	0.734	0.562	0.703	0.703	0.688	0.656	0.703
	IGF + HOXA13	0.703	0.703	0.672	0.672	0.719	0.750	0.500	0.641	0.688	0.672
	MDK + CDC2 + IGFBP5	0.766	0.766	0.766	0.766	0.688	0.766	0.734	0.797	0.656	0.625
	MDK + CDC2 + HOXA13	0.734	0.734	0.734	0.734	0.609	0.688	0.766	0.703	0.656	0.656
	MDK + IGFBP5 + HOXA13	0.734	0.719	0.734	0.719	0.719	0.766	0.750	0.703	0.656	0.656
	CDC2 + IGFBP5 + HOXA13	0.797	0.797	0.812	0.781	0.719	0.750	0.734	0.688	0.672	0.672
	MDK+CDC2+IGFBP5+HOXA13	0.766	0.781	0.781	0.797	0.703	0.766	0.766	0.719	0.656	0.641

Sensitivity at Specificity: Sp 80

Figure 16a

b	Model	LDA		LogReg		SVM		KN5N		TREE	
		-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb
	MDK	0.657	0.719	0.672	0.719	0.578	0.641	0.531	0.609	0.609	0.672
	CDC2	0.481	0.703	0.719	0.703	0.531	0.688	0.500	0.625	0.672	0.703
	IGFBP5	0.595	0.641	0.625	0.656	0.516	0.625	0.516	0.484	0.562	0.578
	HOXA13	0.462	0.594	0.562	0.562	0.469	0.469	0.406	0.375	0.500	0.406
	MDK + CDC2	0.688	0.734	0.688	0.734	0.641	0.688	0.562	0.672	0.641	0.641
	MDK + IGFBP5	0.703	0.719	0.703	0.719	0.703	0.781	0.562	0.766	0.609	0.609
	MDK + HOXA13	0.656	0.688	0.656	0.688	0.594	0.641	0.562	0.516	0.594	0.625
	CDC2 + IGFBP5	0.750	0.766	0.750	0.766	0.609	0.688	0.578	0.641	0.625	0.641
	CDC + HOXA13	0.719	0.703	0.719	0.703	0.547	0.688	0.594	0.547	0.656	0.703
	IGF + HOXA13	0.641	0.641	0.641	0.641	0.688	0.719	0.500	0.484	0.609	0.609
	MDK + CDC2 + IGFBP5	0.734	0.734	0.734	0.734	0.688	0.734	0.609	0.797	0.609	0.625
	MDK + CDC2 + HOXA13	0.688	0.719	0.688	0.719	0.594	0.672	0.609	0.641	0.641	0.641
	MDK + IGFBP5 + HOXA13	0.703	0.719	0.703	0.719	0.719	0.750	0.562	0.703	0.641	0.641
	CDC2 + IGFBP5 + HOXA13	0.750	0.766	0.750	0.766	0.719	0.734	0.594	0.688	0.625	0.625
	MDK+CDC2+IGFBP5+HOXA13	0.766	0.750	0.750	0.750	0.688	0.750	0.625	0.719	0.609	0.594

Sensitivity at Specificity: Sp.85

Figure 16b

C	Model	LDA		LogReg		SVM		KN5N		TREE	
		-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb
	MDK	0.511	0.672	0.625	0.672	0.562	0.641	0.531	0.609	0.609	0.594
	CDC2	0.338	0.703	0.656	0.703	0.531	0.688	0.500	0.625	0.625	0.672
	IGFBP5	0.212	0.562	0.562	0.562	0.500	0.594	0.516	0.484	0.500	0.562
	HOXA13	0.257	0.516	0.500	0.531	0.438	0.469	0.406	0.375	0.391	0.359
	MDK + CDC2	0.688	0.703	0.688	0.688	0.625	0.688	0.562	0.672	0.562	0.578
	MDK + IGFBP5	0.641	0.719	0.641	0.688	0.703	0.719	0.562	0.625	0.578	0.594
	MDK + HOXA13	0.641	0.672	0.625	0.656	0.562	0.641	0.562	0.516	0.594	0.578
	CDC2 + IGFBP5	0.656	0.750	0.672	0.734	0.609	0.688	0.578	0.641	0.547	0.594
	CDC + HOXA13	0.641	0.703	0.656	0.688	0.547	0.688	0.594	0.547	0.594	0.672
	IGF + HOXA13	0.594	0.594	0.578	0.578	0.672	0.688	0.500	0.484	0.594	0.578
	MDK + CDC2 + IGFBP5	0.672	0.734	0.672	0.719	0.656	0.734	0.609	0.672	0.531	0.578
	MDK + CDC2 + HOXA13	0.688	0.688	0.688	0.703	0.578	0.672	0.609	0.641	0.531	0.562
	MDK + IGFBP5 + HOXA13	0.641	0.672	0.625	0.656	0.688	0.688	0.562	0.562	0.609	0.594
	CDC2 + IGFBP5 + HOXA13	0.672	0.766	0.703	0.734	0.672	0.688	0.594	0.547	0.578	0.594
	MDK+CDC2+IGFBP5+HOXA13	0.688	0.719	0.703	0.719	0.672	0.734	0.625	0.672	0.500	0.562

Sensitivity at Specificity: Sp.90

Figure 16c

d	Model	LDA		LogReg		SVM		KN5N		TREE	
		-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb
	MDK	0.304	0.609	0.547	0.609	0.531	0.609	0.500	0.609	0.500	0.562
	CDC2	0.180	0.625	0.516	0.625	0.500	0.609	0.438	0.625	0.500	0.609
	IGFBP5	0.148	0.484	0.484	0.484	0.500	0.500	0.359	0.391	0.469	0.438
	HOXA13	0.173	0.422	0.438	0.422	0.422	0.406	0.297	0.297	0.344	0.297
	MDK + CDC2	0.562	0.672	0.562	0.672	0.547	0.672	0.453	0.672	0.453	0.562
	MDK + IGFBP5	0.562	0.609	0.578	0.609	0.609	0.656	0.562	0.625	0.531	0.547
	MDK + HOXA13	0.531	0.609	0.531	0.609	0.531	0.609	0.562	0.516	0.500	0.562
	CDC2 + IGFBP5	0.562	0.609	0.562	0.625	0.562	0.594	0.453	0.641	0.500	0.547
	CDC + HOXA13	0.516	0.625	0.500	0.625	0.516	0.609	0.594	0.547	0.516	0.609
	IGF + HOXA13	0.484	0.484	0.531	0.531	0.547	0.531	0.500	0.484	0.406	0.406
	MDK + CDC2 + IGFBP5	0.594	0.656	0.609	0.672	0.578	0.641	0.609	0.672	0.469	0.500
	MDK + CDC2 + HOXA13	0.562	0.672	0.562	0.672	0.547	0.672	0.516	0.641	0.484	0.562
	MDK + IGFBP5 + HOXA13	0.609	0.625	0.609	0.609	0.609	0.656	0.562	0.562	0.531	0.547
	CDC2 + IGFBP5 + HOXA13	0.609	0.641	0.578	0.656	0.594	0.641	0.594	0.547	0.484	0.516
	MDK+CDC2+IGFBP5+HOXA13	0.609	0.688	0.594	0.672	0.625	0.672	0.625	0.672	0.469	0.484
Sensitivity at Specificity: Sp.95											

Figure 16d

e	Model	LDA		LogReg		SVM		KN5N		TREE	
		-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb	-IL8Rb	+IL8Rb
	MDK	0.163	0.516	0.484	0.516	0.469	0.547	0.312	0.516	0.359	0.562
	CDC2	0.047	0.453	0.469	0.469	0.453	0.562	0.438	0.500	0.469	0.422
	IGFBP5	0.054	0.391	0.391	0.391	0.359	0.375	0.234	0.266	0.219	0.266
	HOXA13	0.089	0.281	0.312	0.281	0.297	0.281	0.203	0.297	0.234	0.234
	MDK + CDC2	0.484	0.578	0.500	0.578	0.469	0.578	0.375	0.422	0.359	0.391
	MDK + IGFBP5	0.484	0.547	0.484	0.547	0.469	0.500	0.531	0.344	0.359	0.359
	MDK + HOXA13	0.484	0.547	0.469	0.547	0.469	0.484	0.422	0.500	0.359	0.562
	CDC2 + IGFBP5	0.484	0.500	0.484	0.500	0.469	0.484	0.453	0.484	0.438	0.422
	CDC + HOXA13	0.469	0.422	0.453	0.469	0.422	0.484	0.484	0.406	0.453	0.453
	IGF + HOXA13	0.391	0.391	0.375	0.375	0.375	0.422	0.234	0.406	0.219	0.250
	MDK + CDC2 + IGFBP5	0.484	0.578	0.484	0.562	0.500	0.562	0.500	0.484	0.312	0.391
	MDK + CDC2 + HOXA13	0.484	0.609	0.484	0.609	0.484	0.578	0.344	0.578	0.359	0.391
	MDK + IGFBP5 + HOXA13	0.469	0.531	0.500	0.547	0.469	0.516	0.469	0.406	0.359	0.359
	CDC2 + IGFBP5 + HOXA13	0.469	0.484	0.469	0.484	0.469	0.500	0.469	0.469	0.453	0.422
	MDK+CDC2+IGFBP5+HOXA13	0.484	0.609	0.484	0.609	0.469	0.531	0.516	0.484	0.344	0.391
Sensitivity at Specificity: Sp.98											

Figure 16e

Model	LDA	LogReg	SVM	KN5N	TREE
MDK	0.013	0.000	0.078	0.250	0.062
CDC2	-0.019	-0.016	0.141	-0.016	0.031
IGFBP5	0.046	0.016	0.109	0.141	-0.047
HOXA13	0.123	-0.016	-0.016	-0.031	0.031
MDK + CDC2	0.016	0.016	0.078	0.016	-0.031
MDK + IGFBP5	0.000	0.000	0.078	0.078	0.000
MDK + HOXA13	0.000	-0.016	0.031	0.016	0.062
CDC2 + IGFBP5	0.016	0.016	0.109	0.094	0.016
CDC + HOXA13	-0.016	-0.016	0.141	-0.016	0.047
IGF + HOXA13	0.000	0.000	0.031	0.141	-0.016
MDK + CDC2 + IGFBP5	0.000	0.000	0.078	0.062	-0.031
MDK + IGFBP5 + HOXA13	-0.016	-0.016	0.047	-0.047	0.000
CDC2 + IGFBP5 + HOXA13	0.000	-0.031	0.031	-0.047	0.000
MDK+CDC2+IGFBP5+HOXA13	0.016	0.016	0.062	-0.047	-0.016

Gain in sensitivity, starting at specificity=0.80

Figure 17a

Model	LDA	LogReg	SVM	KN5N	TREE
MDK	0.062	0.047	0.047	0.078	0.062
CDC2	0.222	-0.016	-0.016	0.125	0.031
IGFBP5	0.046	0.031	0.031	-0.031	0.016
HOXA13	0.132	0.000	0.031	-0.031	-0.094
MDK + CDC2	0.047	0.047	0.016	0.109	0.000
MDK + IGFBP5	0.016	0.016	0.016	0.203	0.000
MDK + HOXA13	0.031	0.031	0.016	-0.047	0.031
CDC2 + IGFBP5	0.016	0.016	0.016	0.062	0.016
CDC + HOXA13	-0.016	-0.016	-0.016	-0.047	0.047
IGF + HOXA13	0.000	0.000	0.062	-0.016	0.000
MDK + CDC2 + IGFBP5	0.000	0.000	0.016	0.188	0.016
MDK + CDC2 + HOXA13	0.031	0.031	0.000	0.031	0.000
MDK + IGFBP5 + HOXA13	0.016	0.016	0.047	0.141	0.000
CDC2 + IGFBP5 + HOXA13	0.016	0.016	0.031	0.094	0.000
MDK+CDC2+IGFBP5+HOXA13	-0.016	0.000	-0.016	0.094	-0.016

Gain in sensitivity, starting at specificity=0.85

Figure 17b

Model	LDA	LogReg	SVM	KN5N	TREE
MDK	0.161	0.047	0.078	0.078	-0.016
CDC2	0.365	0.047	0.156	0.125	0.047
IGFBP5	0.350	0.000	0.094	-0.031	0.062
HOXA13	0.259	0.031	0.031	-0.031	-0.031
MDK + CDC2	0.016	0.000	0.062	0.109	0.016
MDK + IGFBP5	0.078	0.047	0.016	0.062	0.016
MDK + HOXA13	0.031	0.031	0.078	-0.047	-0.016
CDC2 + IGFBP5	0.094	0.062	0.078	0.062	0.047
CDC + HOXA13	0.062	0.031	0.141	-0.047	0.078
IGF + HOXA13	0.000	0.000	0.016	-0.016	-0.016
MDK + CDC2 + IGFBP5	0.062	0.047	0.078	0.062	0.047
MDK + CDC2 + HOXA13	0.000	0.016	0.094	0.031	0.031
MDK + IGFBP5 + HOXA13	0.031	0.031	0.000	0.000	-0.016
CDC2 + IGFBP5 + HOXA13	0.094	0.031	0.016	-0.047	0.016
MDK+CDC2+IGFBP5+HOXA13	0.031	0.016	0.062	0.047	0.062

Gain in sensitivity, starting at specificity=0.90

Figure 17c

Model	LDA	LogReg	SVM	KN5N	TREE
MDK	0.306	0.062	0.078	0.109	0.062
CDC2	0.445	0.109	0.109	0.188	0.109
IGFBP5	0.336	0.000	0.000	0.031	-0.031
HOXA13	0.249	-0.016	-0.016	0.000	-0.047
MDK + CDC2	0.109	0.109	0.125	0.219	0.109
MDK + IGFBP5	0.047	0.031	0.047	0.062	0.016
MDK + HOXA13	0.078	0.078	0.078	-0.047	0.062
CDC2 + IGFBP5	0.047	0.062	0.031	0.188	0.047
CDC + HOXA13	0.109	0.125	0.094	-0.047	0.094
IGF + HOXA13	0.000	0.000	-0.016	-0.016	0.000
MDK + CDC2 + IGFBP5	0.062	0.062	0.062	0.062	0.031
MDK + CDC2 + HOXA13	0.109	0.109	0.125	0.125	0.078
MDK + IGFBP5 + HOXA13	0.016	0.000	0.047	0.000	0.016
CDC2 + IGFBP5 + HOXA13	0.031	0.078	0.047	-0.047	0.031
MDK+CDC2+IGFBP5+HOXA13	0.078	0.078	0.047	0.047	0.016

Gain in sensitivity, starting at specificity=0.95

Figure 17d

Model	LDA	LogReg	SVM	KN5N	TREE
MDK	0.353	0.031	0.078	0.203	0.203
CDC2	0.406	0.000	0.109	0.062	-0.047
IGFBP5	0.336	0.000	0.016	0.031	0.047
HOXA13	0.192	-0.031	-0.016	0.094	0.000
MDK + CDC2	0.094	0.078	0.109	0.047	0.031
MDK + IGFBP5	0.062	0.062	0.031	-0.188	0.000
MDK + HOXA13	0.062	0.078	0.016	0.078	0.203
CDC2 + IGFBP5	0.016	0.016	0.016	0.031	-0.016
CDC + HOXA13	-0.047	0.016	0.062	-0.078	0.000
IGF + HOXA13	0.000	0.000	0.047	0.172	0.031
MDK + CDC2 + IGFBP5	0.094	0.078	0.062	-0.016	0.078
MDK + CDC2 + HOXA13	0.125	0.125	0.094	0.234	0.031
MDK + IGFBP5 + HOXA13	0.062	0.047	0.047	-0.062	0.000
CDC2 + IGFBP5 + HOXA13	0.016	0.016	0.031	0.000	-0.031
MDK+CDC2+IGFBP5+HOXA13	0.125	0.125	0.062	-0.031	0.047

Gain in sensitivity, starting at specificity=0.98

Figure 17e

Model	LDA	LogReg	SVM	KN5N	TREE
MDK	0.030	0.000	0.168	0.180	0.069
CDC2	-0.025	-0.040	0.178	-0.104	0.094
IGFBP5	0.037	0.022	0.131	0.119	-0.025
HOXA13	0.114	-0.007	-0.002	0.116	0.027
MDK + CDC2	0.012	0.030	0.158	-0.101	-0.049
MDK + IGFBP5	0.000	0.000	0.101	0.146	-0.022
MDK + HOXA13	0.000	-0.054	0.126	-0.089	0.072
CDC2 + IGFBP5	0.022	0.012	0.143	0.146	0.035
CDC + HOXA13	-0.025	-0.040	0.158	-0.109	0.106
IGF + HOXA13	0.000	0.000	0.042	0.158	0.005
MDK + CDC2 + IGFBP5	0.000	0.000	0.133	0.151	-0.012
MDK + CDC2 + HOXA13	0.000	0.000	0.165	-0.091	-0.035
MDK + IGFBP5 + HOXA13	-0.022	-0.022	0.081	-0.042	-0.032
CDC2 + IGFBP5 + HOXA13	0.000	-0.094	0.064	-0.032	0.015
MDK+CDC2+IGFBP5+HOXA13	0.027	0.000	0.138	-0.057	-0.010

Gain in specificity, starting at specificity=0.80

Figure 17f

Model	LDA	LogReg	SVM	KN5N	TREE
MDK	0.059	0.041	0.123	0.130	0.039
CDC2	0.125	-0.023	0.130	0.130	0.044
IGFBP5	0.041	0.009	0.081	0.069	0.036
HOXA13	0.064	-0.001	-0.001	0.066	-0.015
MDK + CDC2	0.054	0.046	0.108	0.118	-0.001
MDK + IGFBP5	0.051	0.041	0.051	0.096	0.019
MDK + HOXA13	0.051	0.044	0.103	0.086	0.041
CDC2 + IGFBP5	0.017	0.002	0.093	0.096	0.031
CDC + HOXA13	-0.018	-0.028	0.113	0.086	0.056
IGF + HOXA13	-0.001	-0.001	0.002	0.108	-0.008
MDK + CDC2 + IGFBP5	-0.001	-0.001	0.083	0.101	0.014
MDK + CDC2 + HOXA13	0.049	0.054	0.118	0.130	-0.001
MDK + IGFBP5 + HOXA13	0.007	0.014	0.031	0.113	0.009
CDC2 + IGFBP5 + HOXA13	0.051	0.007	0.014	0.101	-0.003
MDK+CDC2+IGFBP5+HOXA13	-0.015	-0.001	0.088	0.110	0.004

Gain in specificity, starting at specificity=0.85

Figure 17g

Model	LDA	LogReg	SVM	KN5N	TREE
MDK	0.078	0.021	0.075	0.080	-0.011
CDC2	0.098	0.038	0.080	0.080	0.028
IGFBP5	0.090	0.001	0.043	0.019	0.011
HOXA13	0.088	0.004	0.028	0.016	-0.026
MDK + CDC2	0.004	0.001	0.058	0.068	0.043
MDK + IGFBP5	0.028	0.026	0.001	0.046	0.009
MDK + HOXA13	0.011	0.016	0.063	0.036	-0.009
CDC2 + IGFBP5	0.021	0.028	0.043	0.046	0.058
CDC + HOXA13	0.019	0.033	0.063	0.036	0.053
IGF + HOXA13	0.001	0.001	0.004	0.058	-0.031
MDK + CDC2 + IGFBP5	0.048	0.043	0.036	0.051	0.048
MDK + CDC2 + HOXA13	0.001	0.004	0.075	0.080	0.053
MDK + IGFBP5 + HOXA13	0.041	0.046	0.001	0.063	0.004
CDC2 + IGFBP5 + HOXA13	0.021	0.033	0.021	0.051	-0.001
MDK+CDC2+IGFBP5+HOXA13	0.031	0.021	0.048	0.060	0.046

Gain in specificity, starting at specificity=0.90

Figure 17h

Model	LDA	LogReg	SVM	KN5N	TREE
MDK	0.043	0.025	0.030	0.030	0.028
CDC2	0.050	0.025	0.030	0.030	0.023
IGFBP5	0.043	0.001	0.001	0.015	-0.007
HOXA13	0.045	-0.002	-0.004	0.020	-0.012
MDK + CDC2	0.030	0.030	0.033	0.038	0.013
MDK + IGFBP5	0.023	0.025	0.010	-0.004	0.006
MDK + HOXA13	0.030	0.030	0.013	-0.014	0.028
CDC2 + IGFBP5	0.020	0.018	0.015	0.025	0.015
CDC + HOXA13	0.023	0.025	0.025	-0.014	0.015
IGF + HOXA13	0.001	0.001	-0.007	0.008	0.003
MDK + CDC2 + IGFBP5	0.025	0.023	0.023	0.001	0.010
MDK + CDC2 + HOXA13	0.035	0.033	0.033	0.030	0.013
MDK + IGFBP5 + HOXA13	0.006	0.001	0.003	0.013	0.006
CDC2 + IGFBP5 + HOXA13	0.003	0.015	0.008	0.001	0.008
MDK+CDC2+IGFBP5+HOXA13	0.028	0.030	0.015	0.010	0.010

Gain in specificity, starting at specificity=0.95

Figure 17i

Model	LDA	LogReg	SVM	KNSN	TREE
MDK	0.015	0.005	0.008	0.005	0.008
CDC2	0.020	0.000	0.000	0.000	-0.007
IGFBP5	0.018	0.000	0.000	0.000	0.003
HOXA13	0.015	-0.007	-0.007	0.010	0.000
MDK + CDC2	0.003	0.003	0.005	0.008	0.003
MDK + IGFBP5	0.000	0.000	0.000	-0.010	0.000
MDK + HOXA13	0.008	0.008	0.008	0.010	0.008
CDC2 + IGFBP5	0.005	0.000	0.003	-0.005	0.000
CDC + HOXA13	-0.002	0.000	0.000	-0.010	-0.002
IGF + HOXA13	0.000	0.000	0.003	0.008	0.003
MDK + CDC2 + IGFBP5	0.003	0.003	0.005	0.005	0.010
MDK + CDC2 + HOXA13	0.008	0.008	0.003	0.005	0.003
MDK + IGFBP5 + HOXA13	0.008	0.005	0.000	0.005	0.000
CDC2 + IGFBP5 + HOXA13	0.000	0.000	0.008	0.013	-0.007
MDK+CDC2+IGFBP5+HOXA13	0.005	0.005	0.005	0.005	0.010

Gain in specificity, starting at specificity=0.98

Figure 17j

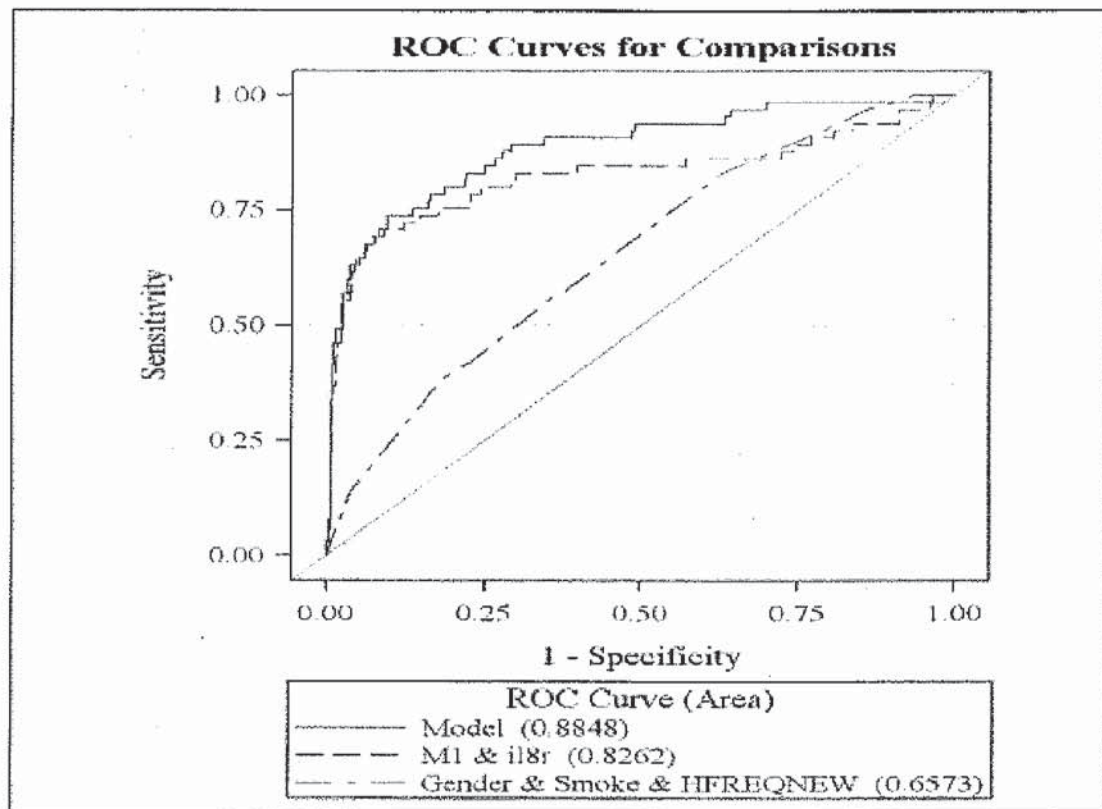


FIG. 18

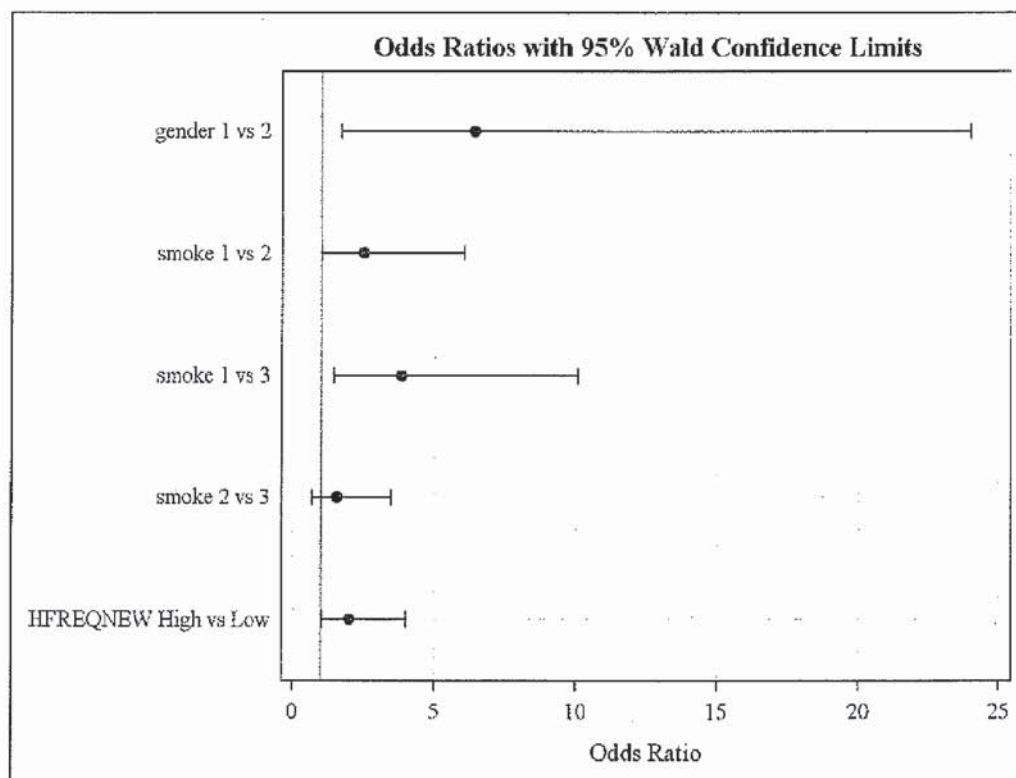


FIG. 19

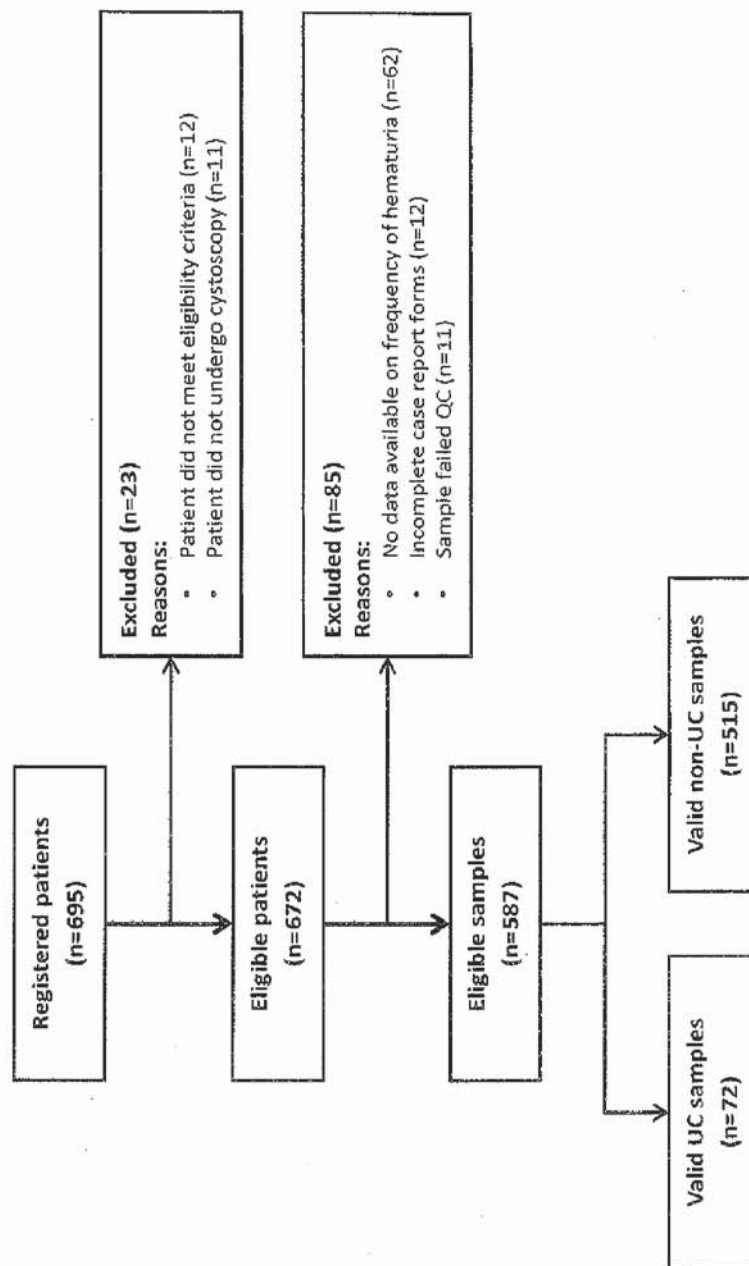


FIG. 20A

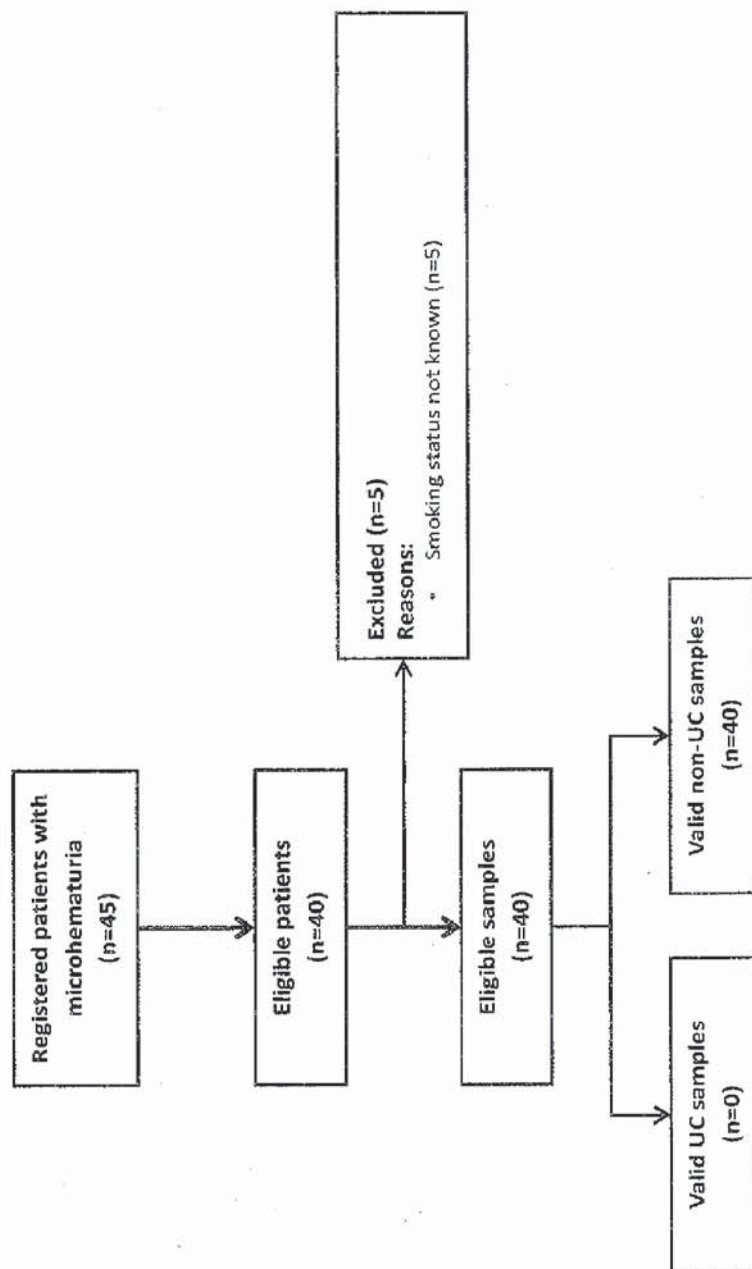
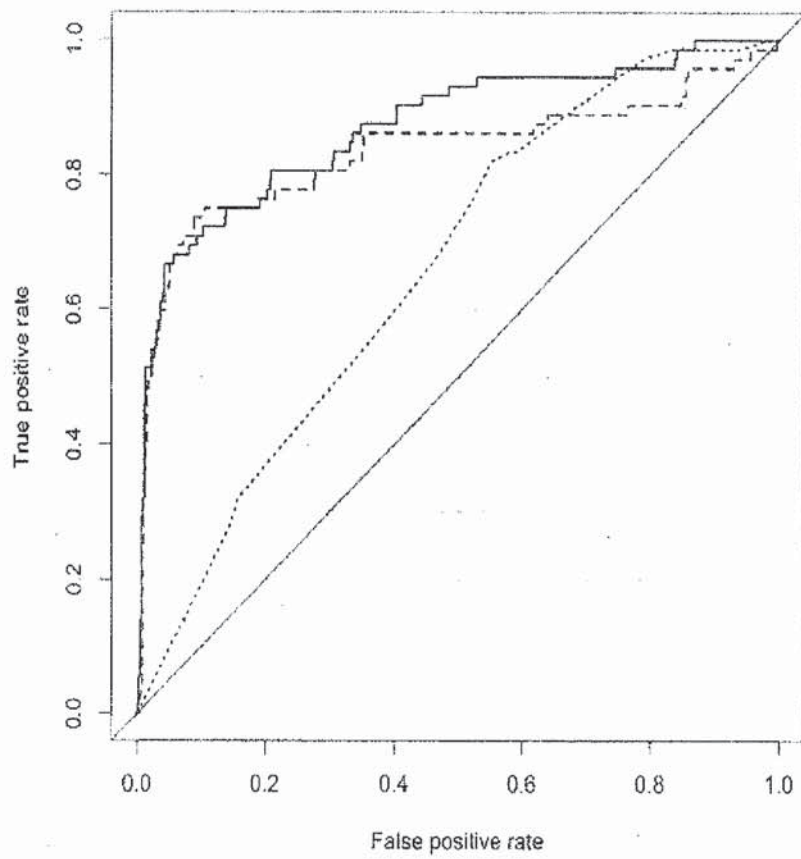
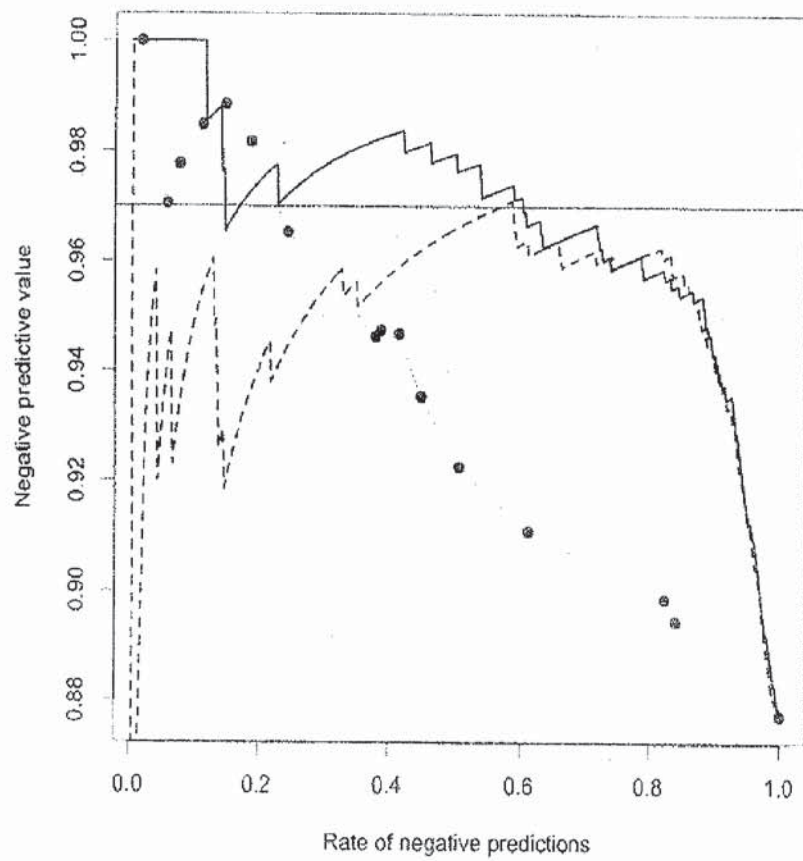


FIG. 20B

**FIG. 21**

**FIG. 22**

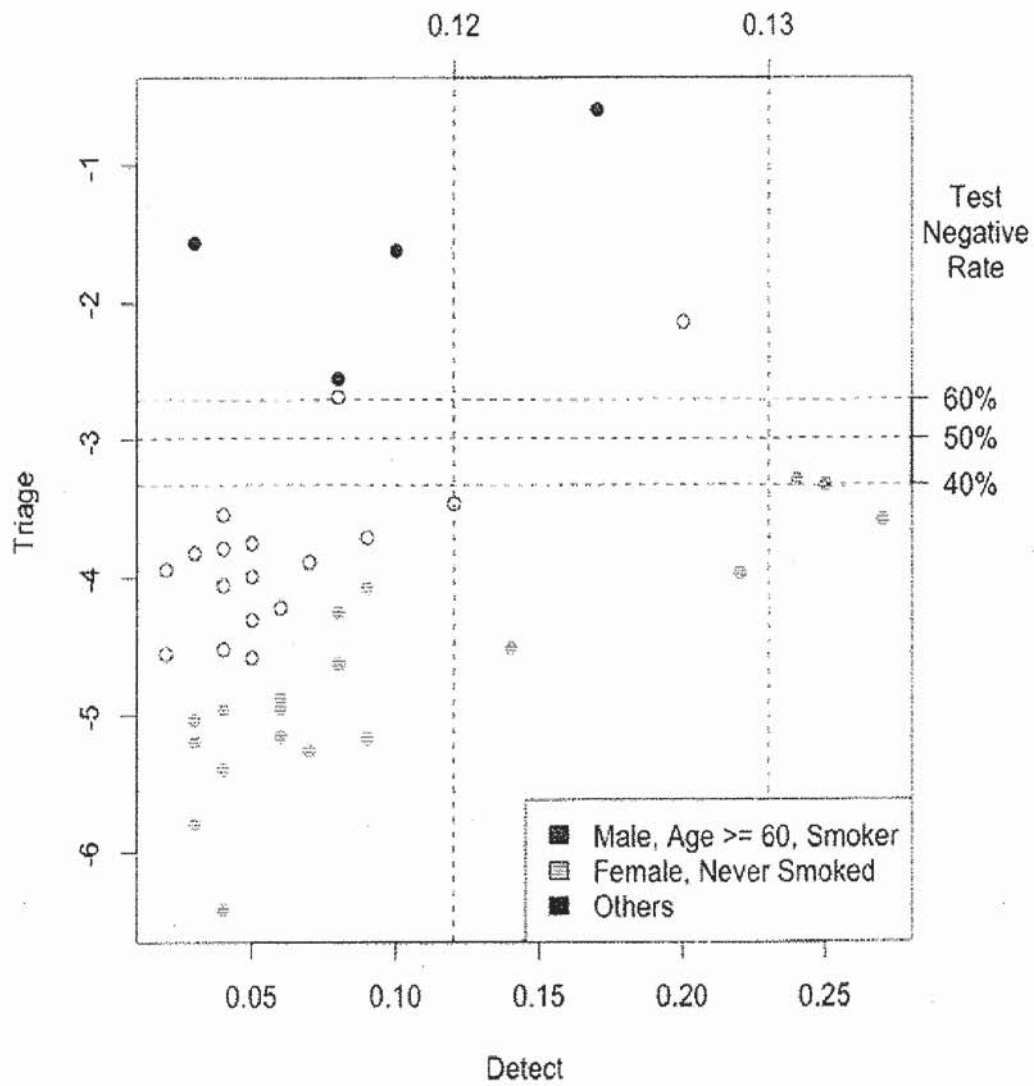


FIG. 23

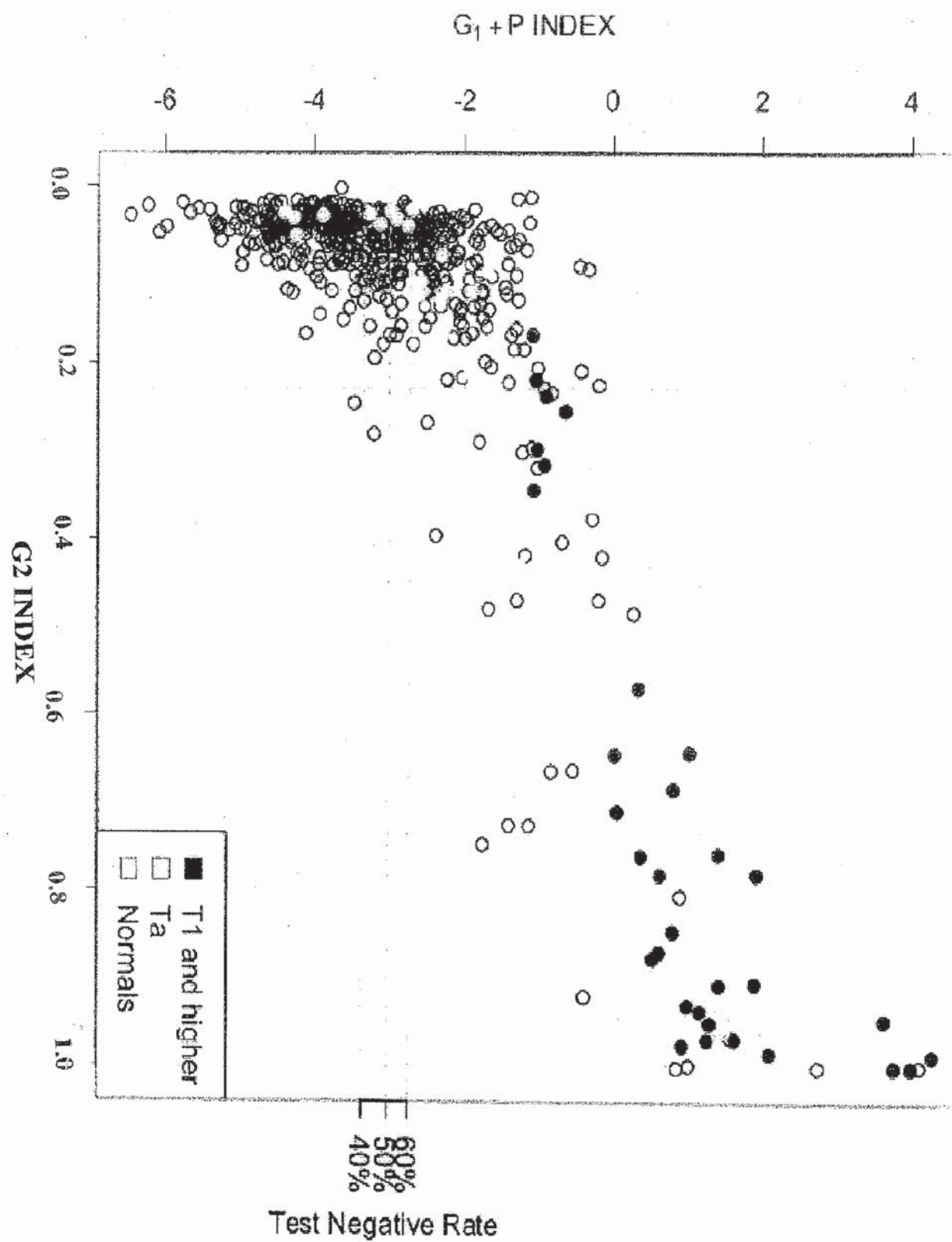


FIG. 24