

**Supplementary Data**

**Supplementary Figure 1.** Knocking down all AR variants (AR-Vs) and full-length AR in 22Rv1 cells.

(A). Schematic representation of full-length AR mRNA and protein of AR-Vs in 22Rv1 cells. The siRNA and shRNA target sites are also indicated. 22Rv1 cells have a duplicated exon 3 which codes for a third zinc finger in the DNA-binding domain.

(B). 22Rv1 cells were transfected with non-targeting siRNA (siNT) or siRNA targeting AR Exon1 or AR Exon 7 for 72 hr. Lysates were subjected to Western immunoblotting using a polyclonal antibody targeted to the AR N-terminal domain and tubulin antibody.

(C). 22Rv1 cells were transfected with empty vector (shCon) or shRNA targeting AR Exon 1 or AR Exon 8 for 72 hr. Lysates were subjected to Western immunoblotting using a polyclonal antibody targeted to the AR N-terminal domain and actin antibody.

**Supplementary Figure 2.** Real-time RT-PCR validation of microarray results in 22Rv1 cells. 22Rv1 cells were transfected with empty vector control (shCon) or shRNA targeting AR Exon 1 (shEx 1) for 72 hr in androgen-depleted conditions with medium supplemented with 10% CSS. RNA was isolated and subjected to quantitative real-time RT-PCR using primers specific for some top genes identified from the microarray gene expression experiment in 22Rv1 cells. Expression is relative to empty vector control, which was arbitrarily set to 1. Data are expressed as means ( $\pm$  SEM) from three independent biological replicates.

(A). Genes identified to be down-regulated in microarray after knocking down all AR isoforms.

(B). Genes identified to be up-regulated in microarray after knocking down all AR isoforms.

**Supplementary Table 1.** Primers used for real-time RT-PCR and CHIP-qPCR

**Supplementary Table 2.** Probe sets for which expression is induced and repressed by AR variants independent of full-length AR.

**Supplementary Table 3.** Probe sets are differentially expressed between localized prostate cancer and castration-resistant prostate cancer specimens.

**Supplementary Table 4.** Probe sets are differentially expressed between benign and malignant prostate specimens.

**Supplementary Table 5.** Expression patterns of probes in common or unique in GP3, GP4, GP5 and LN metastatic specimens.

**Supplementary Table 6.** Probe sets for which expression correlates with prostate cancer disease progression.

**Supplementary Table 7.** Follow-up data on patients with localized disease.

**Supplementary Table 8.** Probe sets for which expression correlates with biochemical failure.

ACCEPTED MANUSCRIPT

<b>Gene</b>	<b>Primers for RT-PCR and ChIP-qPCR</b>	
PMEPA1	Forward 5'	TGC AAC TGC AAA CGC TCT TT
	Reverse 5'	CCA CCA CCA TCA CCA TCA TC
MKNK2	Forward 5'	TCC TGA GCC ACA TCC ACA AG
	Reverse 5'	GTG GGC GAT GCC TTT GTT AT
PALLD	Forward 5'	AAG ATG CTG GTG CGT GAG AA
	Reverse 5'	CAC AAG CTC CAG GCT GAA TG
SIGMAR1	Forward 5'	ACC ATC ATC TCT GGC ACC TT
	Reverse 5'	CTC CAC CAT CCA TGT GTT TG
NRP-1	Forward 5'	CAC CAA GGT GAC CAC TGG AA
	Reverse 5'	CAG CAA TCC CAC CAA GGT TT
SGK	Forward 5'	AGG AGG ATG GGT CTG AAC GA
	Reverse 5'	AGG AGA AGG GTT GGC ATT CA
PLA2G10 (X-PLA2)	Forward 5'	TAC CTG TGT GCC TGC CAA TC
	Reverse 5'	ACC CAC AGT TCC TGC CAG TT
NR4A2 (NURR1)	Forward 5'	GAC TCC AAC CCG GCT ATG AC
	Reverse 5'	TGG AGC CAG TCA GGA GAT CA
ACPP (PAcP)	Forward 5'	CTT GCC ACT TGA CGG AAT TG
	Reverse 5'	CTG CAG CCA GGT AGC ATG AG
BNIP3L (NIX)	Forward 5'	CAC ACC AGC AGG GAC CAT AG
	Reverse 5'	GTG GAA CTC CTT GGG TGG AA
LEF1	Forward 5'	ACG TGA AGC CTC AGC ATG AA
	Reverse 5'	AGC AAC GAC ATT CGC TCT CA
KLK3 enhancer	Forward 5'	TGA GAA ACC TGA GAT TAG GA
	Reverse 5'	ATC TCT CTC AGA TCC AGG CT
PMEPA1 enhancer	Forward 5'	AAA CAG AAG GTG GGA GAC AAA
	Reverse 5'	TAC CCT GGC TAA AGC AGT TTC



ILMN_1654	-0.08381	0.468018	0.891964	7.263231	7.347043	-1.05981	-0.4344	0.000877	0.053291	6.912647	7.347043	-1.35134	MKNK2	ILMN_113.NM_19905	2872	1.5E+08	NM_19905	MKNK2	19	2038113-219p13.3h	Homo sapiens MAP kinase interacting serine/threonine kinase 2 (MKNK2), trans		
ILMN_1807	-0.07031	0.571663	0.922267	10.72701	10.79733	-1.04995	-0.43324	0.001782	0.080488	10.36409	10.79733	-1.35026	PCNP	ILMN_761.NM_02035	57092	9968626	NM_02035	PCNP	3	1013128953q12.3a	Homo sapiens PEST proteolytic signal containing nuclear protein (PCNP), mRNA		
ILMN_3243	-0.17715	0.214363	0.822630	8.39805	-1.12642	-1.04949	-0.43298	0.003982	0.132604	7.965074	8.39805	-1.35002	LOC100131	ILMN_344.NM_00171	1E+08	1.69E+08	XM_00171	LOC100133692	1	PREDICTED: Homo sapiens similar to cell division cycle 2-like 1 (PITSLRE prR			
ILMN_3296	-0.04469	0.679242	0.94363	8.169047	8.213734	-1.03146	-0.43293	0.000494	0.037943	7.788037	8.213734	-1.34997	XAGE1C	ILMN_307.NM_00169	653048	1.48E+08	NM_00169	XAGE1C	X	52513451-Xp11.22b	Homo sapiens X antigen family, member 1C (XAGE1C), transcript variant 2, mf		
ILMN_3307	-0.05221	0.616943	0.933882	10.07857	10.13078	-1.03686	-0.43205	0.00305	0.030159	9.698737	10.13078	-1.34915	ADRBK1	ILMN_207.NM_00101	156	1.49E+08	NM_00101	ADRBK1	X	11	66810501-11q13.1f	Homo sapiens adrenergic, beta, receptor kinase 1 (ADRBK1), mRNA	
ILMN_1704	-0.03813	0.774601	0.965006	8.621069	8.659202	-1.02678	-0.43181	0.003299	0.120013	8.227396	8.659202	-1.34892	LOC55420	ILMN_319.NM_00108	554203	89059857	XR_00108	LOC55420	X	73136962-Qx13.2b	PREDICTED: Homo sapiens hypothetical LOC554203 (LOC554203), misc RNA		
ILMN_2204	-0.1211	0.307758	0.82217	9.53019	9.651292	-1.08757	-0.43041	0.001171	0.062697	9.220882	9.651292	-1.34762	XKRC2	ILMN_232.NM_00543	7516	4885666	NM_00543	XKRC2	X	7	1523438347q36.1e	Homo sapiens X-ray repair complementing defective repair in Chinese hamster	
ILMN_2167	-0.10151	0.38702	0.864984	8.370011	8.471521	-1.0729	-0.42993	0.001095	0.06058	8.041588	8.471521	-1.34717	DFFA	ILMN_164.NM_01356	1676	4713299	NM_01356	DFFA	X	15	10521406-1p36.22c	Homo sapiens DNA fragmentation factor, 45kDa, alpha polypeptide (DFFA), tra	
ILMN_1199	-0.18856	0.097072	0.680151	9.52648	9.715041	-1.13963	-0.42975	0.006655	0.045086	9.852866	9.715041	-1.347	SCG3	ILMN_174.NM_01324	29106	19557464	NM_01324	SCG3	X	15	98901199-15q21.2b	Homo sapiens secretogranin III (SCG3), mRNA	
ILMN_3248	-0.1369	0.256433	0.792809	6.351856	6.48876	-1.09954	-0.42878	0.001363	0.068038	6.05998	6.48876	-1.3461	LOC10013	ILMN_348.NM_00171	1E+08	1.69E+08	XM_00171	LOC100134147	ml	PREDICTED: Homo sapiens hypothetical LOC100134147 (LOC100134147), ml			
ILMN_1846	-0.17071	0.289689	0.91177	6.637377	7.008094	-1.12561	-0.42947	0.012082	0.241341	6.579616	7.008094	-1.3458	HS.66049	ILMN_73398	22803083	HC009563				2	85618337-85618386	Homo sapiens, clone IMAGE3901628, mRNA	
ILMN_3251	-0.07498	0.574446	0.92284	8.709032	8.784011	-1.05335	-0.42652	0.00371	0.129145	8.357488	8.784011	-1.34399	FLJ14484	ILMN_334.NM_00210	650669	1.69E+08	XR_00210	FLJ14484	NA	PREDICTED: Homo sapiens misc_RNA (FLJ14484), miscRNA			
ILMN_3244	-0.16631	0.161052	0.70492	7.958283	7.472134	-1.12219	-0.4264	0.001153	0.062507	7.045734	7.472134	-1.34388	MXN1	ILMN_181.NM_00551	3110	89257347	NM_00551	MXN1	X	7	156797697q36.3c	Homo sapiens motor neuron and pancreas homeobox 1 (MXN1), transcript vari	
ILMN_2624	-0.22144	0.076847	0.560103	7.795442	8.016896	-1.1659	-0.42519	0.001689	0.07797	7.591695	8.016896	-1.34275	XCRORF12	ILMN_152.NM_08075	140851	50037782	NM_08075	XCRORF12	X	20	33289618-20q11.22b	Homo sapiens chromosome 20 open reading frame 127 (C20orf127), mRNA	
ILMN_1722	-0.12524	0.28598	0.809255	8.90687	9.032113	-1.09069	-0.42351	0.00121	0.063749	8.680867	9.032113	-1.34118	EL24	ILMN_879.NM_00487	9538	5596765	NM_00487	EL24	X	11	14295632611q24.2b	Homo sapiens etoposide induced 2.4 mRNA (EI24), transcript variant 1, mRNA	
ILMN_1705	-0.04551	0.675837	0.944204	6.661148	6.711661	-1.03205	-0.42349	0.000659	0.045231	6.288169	6.711661	-1.34117	SLC02A1	ILMN_142.NM_00563	6578	5302494	NM_00563	SLC02A1	X	3	31251133903a22.1e	Homo sapiens solute carrier organic anion transporter family, member 2A1 (SLU	
ILMN_1734	-0.12243	0.304723	0.82078	8.534304	8.656737	-1.08857	-0.42267	0.001435	0.07057	8.234065	8.656737	-1.34041	DTNA	ILMN_285.NM_00139	1837	42717993	NM_00139	DTNA	X	18	30683213-18q12.1g	Homo sapiens dystrobrevin, alpha (DTNA), transcript variant 7, mRNA	
ILMN_2343	-0.00346	0.769808	0.963753	11.98615	12.01621	-1.02105	-0.42095	0.003038	0.031727	11.599526	12.01621	-1.33881	BOLA3	ILMN_182.NM_21255	388962	78486585	NM_21255	BOLA3	X	2	7436270-2p13.1b	Homo sapiens boIA homolog 3 (E. coli) (BOLA3), transcript variant 1, mRNA	
ILMN_2082	-0.01993	0.861983	0.979341	7.801835	8.217763	-1.01391	-0.41925	0.001197	0.063459	7.402517	8.217763	-1.33723	SNORD68	ILMN_259.NM_00245	606500	72534648	NR_00245	SNORD68	X	16	88155340-16q24.3a	Homo sapiens small nuclear RNA, C/D box 68 (SNORD68), small nuclear R	
ILMN_1781	-0.19204	0.154898	0.69674	7.907838	8.099878	-1.14238	-0.41796	0.003967	0.13533	7.681914	8.099878	-1.33604	LOC64703	ILMN_325.NM_03002	64703	89038498	XM_03002	LOC64703	X	15	80089879-15q25.2a	PREDICTED: Homo sapiens similar to Peptidyl-prolyl cis-trans isomerase NIMA	
ILMN_2136	-0.10909	0.286901	0.80961	8.28627	8.395363	-1.07855	-0.41587	0.003086	0.031896	7.979499	8.395363	-1.33411	MTE	ILMN_172.NM_00162	644314	1.16E+08	NM_17562	MTE	X	1	16q13b	Homo sapiens metallothionein E (MTE), mRNA	
ILMN_3307	-0.05643	0.627558	0.935268	10.30381	10.36024	-1.03989	-0.41573	0.00144	0.07078	9.944505	10.36024	-1.33398	XAGE1A	ILMN_306.NM_00109	653219	1.48E+08	NM_00109	XAGE1A	X	mf	22585605-52258654	Homo sapiens X antigen family, member 1A (XAGE1A), transcript variant 3, mf	
ILMN_1655	-0.1393	0.309451	0.822453	10.98388	11.12317	-1.01337	-0.41569	0.005054	0.155044	10.70748	11.12317	-1.33394	LOC64298	ILMN_337.NM_02637	642989	88947340	NM_02637	LOC64298	X	1	209413609-209413651	PREDICTED: Homo sapiens similar to 40S ribosomal protein S25 (LOC64298	
ILMN_1795	-0.22032	0.097876	0.680376	6.62025	8.40567	-1.16499	-0.4155	0.003513	0.125171	8.425072	8.40567	-1.33376	GOLPH4	ILMN_179.NM_01449	27333	29826236	NM_01449	GOLPH4	X	3	1692101473q26.2a	Homo sapiens golgi phosphoprotein 4 (GOLPH4), mRNA	
ILMN_2177	-0.1852	0.139448	0.679225	10.34309	10.52869	-1.13697	-0.41284	0.002399	0.098446	10.11585	10.52869	-1.3313	MT1E	ILMN_212.NM_17561	4493	83367074	NM_17561	MT1E	X	16	55218348-16q13b	Homo sapiens metallothionein 1E (MT1E), mRNA	
ILMN_1663	-0.21192	0.057744	0.504818	12.40077	12.21898	-1.15823	-0.41243	0.00075	0.048825	11.80656	12.21898	-1.33092	LOC64653	ILMN_169.NM_01819	646531	1.13E+08	XR_01819	LOC64653	X	7	7q22.2b	PREDICTED: Homo sapiens similar to nuclease sensitive element binding prote	
ILMN_3275	-0.22047	0.062851	0.519166	10.78614	11.00661	-1.16511	-0.41195	0.001335	0.067273	10.59466	11.00661	-1.33048	LOC100131	ILMN_337.NM_00172	1E+08	1.69E+08	XM_00172	LOC100132457			6	34824118-34824167	Homo sapiens similar to Sm protein G (LOC100132457), mRNA
ILMN_1878	-0.0829	0.41386	0.876399	9.633714	9.116613	-1.05914	-0.41092	0.000417	0.036522	9.305694	9.116613	-1.32953	HS.544637	ILMN_308.NM_00174	NA	6663509	AW276479				6	192585003-14q11.1d	PREDICTED: Homo sapiens misc_RNA (FLJ39632), miscRNA
ILMN_1805	-0.14577	0.202537	0.750309	6.995415	9.40888	-1.10609	-0.41009	0.001647	0.063459	6.730795	9.40888	-1.32877	FLJ39632	ILMN_166.NM_01513	642447	1.13E+08	XR_01513	FLJ39632	X	14	19608918-9q22.31b	Homo sapiens family with sequence similarity 120A opposite strand (FAM120A)	
ILMN_3238	-0.12547	0.256219	0.792763	9.461906	9.587377	-1.03906	-0.41003	0.00032	0.05445	9.177343	9.587377	-1.32872	FAM120A	ILMN_169.NM_19884	58293	1.49E+08	NM_19884	FAM120A	X	9	69239594-3p14.1a	Homo sapiens letmodin 3 (fetal) (LMO3), mRNA	
ILMN_1788	-0.07202	0.514775	0.907637	8.999689	9.071175	-1.05119	-0.40921	0.001031	0.065859	8.662506	9.071175	-1.32796	LMO3	ILMN_385.NM_19827	338999	1.69E+08	NM_19827	LMO3	X	3	69239594-3p14.1a	PREDICTED: Homo sapiens hypothetical protein FLJ36131, transcript variant 1	
ILMN_3181	-0.17164	0.130919	0.666352	8.950113	8.680756	-1.12634	-0.4086	0.001109	0.060952	8.272153	8.680756	-1.3274	FLJ36131	ILMN_339.NM_00172	347744	1.13E+08	XM_00172	FLJ36131	X	6	6p24.2b	PREDICTED: Homo sapiens chromosome 6 open reading frame 52 (C6orf52), i	
ILMN_1722	-0.05017	0.625122	0.935104	8.484722	8.53489	-1.03539	-0.40797	0.003052	0.039381	8.126923	8.53489	-1.3274	C6orf52	ILMN_421.NM_93849	66984	39275705	NM_02023	PSMG2	X	18	12706554-18p11.21d	Homo sapiens proteasome (prosome, macropain) assembly chaperone 2 (PSM	
ILMN_2088	-0.0317	0.81665	0.937772	9.746091	9.777791	-1.02222	-0.40734	0.006219	0.172624	9.370447	9.777791	-1.32624	PSMG2	ILMN_180.NM_02023	66984	39275705	NM_02023	PSMG2	X	18	12706554-18p11.21d	Homo sapiens proteasome (prosome, macropain) assembly chaperone 2 (PSM	
ILMN_2045	-0.19012	0.128099	0.663461	9.74097	9.931171	-1.14082	-0.40655	0.002632	0.10524	9.52462	9.931171	-1.32551	C1orf97	ILMN_618.NM_03270	84791	1.13E+08	NM_03270	C1orf97	X	3	1q32.3a	Homo sapiens chromosome 1 open reading frame 97 (C1orf97), mRNA	
ILMN_1742	-0.05409	0.665745	0.94319	8.537528	8.411617	-1.0382	-0.40455	0.003361	0.121705	8.007066	8.411617	-1.32368	GRWD1	ILMN_180.NM_03148	83743	15452861	NM_03148	GRWD1	X	19	53648780-19q13.32c	Homo sapiens glutamate-rich WD repeat containing 1 (GRWD1), mRNA	
ILMN_1674	-0.08281	0.628957	0.935775	8.533663	8.60187	-1.04841	-0.40441	0.003088	0.199134	8.197464	8.60187	-1.32354	NFIC	ILMN_282.NM_20584	4782	45050150	NM_20584	NFIC	X	10	300095-3-19p13.3f	Homo sapiens nuclear factor I/C (CCAAT-binding transcription factor) (NFIC), t	
ILMN_1704	-0.05902	0.613019	0.932742	7.722942	-1.04176	-1.04176	-0.40329	0.001926	0.084907	7.719654	7.722942	-1.32252	ATP13A2	ILMN_534.NM_02208	23400	13435128	NM_02208	ATP13A2	X	1	17185182-1p36.13e	Homo sapiens ATPase type 13A2 (ATP13A2), mRNA	
ILMN_2053	-0.23282	0.097566	0.660376	9.608007	9.293631	-1.17513	-0.40296	0.006576	0.178965	8.890674	9.293631	-1.32222	GADD45A	ILMN_173.NM_00192	1647	9790904	NM_00192	GADD45A	X	1	67926172-1p31.3a	Homo sapiens growth arrest and DNA-damage-inducible, alpha (GADD45A), m	
ILMN_1677	-0.02182	0.887939	0.983043	10.31829	10.34011	-1.01524	-0.40252	0.015084	0.270342	9.937504	10.34011	-1.32181	ALCAM	ILMN_164.NM_00162	214	68163410	NM_00162	ALCAM	X	3	1052953943q31.1c	Homo sapiens activated leukocyte cell adhesion molecule (ALCAM), mRNA	
ILMN_3239	-0.18136	0.132932	0.669779	8.935584	8.576949	-1.13396	-0.40192	0.002179	0.091582	8.175024	8.576949	-1.32127	LOC38976	ILMN_350.NM_00172	389765	1.69E+08	XM_00172	LOC38976	X	3	9q21.33b	PREDICTED: Homo sapiens similar to KIF27C (LOC38976), mRNA	
ILMN_2091	-0.12539	0.24687	0.787561	6.628031	6.753416	-1.0908	-0.40083	0.000935	0.058446	6.32529	6.753416	-1.32026	HBM	ILMN_281.NM_00100	3042	94538363	NM_00100	HBM	X	16	156440-15l16p13.3f	Homo sapiens hemoglobin, mu (HBM), mRNA	
ILMN_3																							

Probe set ID	Gene Symbol	Mean(CRPC)	Mean(LPC p-value)	Cf bonferroni	Ratio(CRPC-Fold-Change)	Fold-Change(CRPC vs. LPC) (D)
1007_s_at	DDR1	6.79479	7.48793	0.001442	0.673618	0.618505 -1.6168 CRPC down vs LPC
200863_s_at	RAB11A	9.0897	9.94815	6.07E-05	0.028358	0.551544 -1.81309 CRPC down vs LPC
201028_s_at	CD99	3.89926	5.46983	5.49E-05	0.025627	0.336677 -2.97021 CRPC down vs LPC
201034_at	ADD3	6.03953	4.84182	0.01415	1	2.29376 2.29376 CRPC up vs LPC
201041_s_at	DUSP1	5.95912	8.42404	2.89E-05	0.013511	0.181128 -5.52096 CRPC down vs LPC
201580_s_at	TMX4	5.98073	5.29818	0.001222	0.570792	1.60497 1.60497 CRPC up vs LPC
201581_at	TMX4	6.75724	7.5767	0.005157	1	0.566655 -1.76474 CRPC down vs LPC
201776_s_at	KIAA0494	4.2916	3.78804	0.011116	1	1.41771 1.41771 CRPC up vs LPC
201777_s_at	KIAA0494	2.76738	2.91584	0.039936	1	0.902211 -1.10839 CRPC down vs LPC
202877_s_at	CD93	2.60165	2.15127	0.000275	0.12845	1.3664 1.3664 CRPC up vs LPC
203318_s_at	ZNF148	5.79275	6.65177	0.000565	0.264069	0.551324 -1.81381 CRPC down vs LPC
204347_at	AK3L1	4.23181	4.52494	0.027969	1	0.816134 -1.22529 CRPC down vs LPC
204621_s_at	NR4A2 NR4A2	2.91028	3.95635	0.007478	1	0.484286 -2.0649 CRPC down vs LPC
204622_x_at	NR4A2 NR4A2	2.81175	4.48889	0.000813	0.379712	0.312703 -3.19792 CRPC down vs LPC
205737_at	KCNQ2	1.93301	2.09602	2.09E-06	0.000976	0.893159 -1.11962 CRPC down vs LPC
205981_s_at	ING2	3.59333	3.94138	0.000435	0.203372	0.785642 -1.27284 CRPC down vs LPC
206061_s_at	DICER1	2.28578	2.6911	1.53E-06	0.000713	0.75507 -1.32438 CRPC down vs LPC
206428_s_at	ZNF143	1.7048	1.76872	0.009181	1	0.956659 -1.0453 CRPC down vs LPC
207290_at	PLXNA2	2.38106	2.46639	0.031735	1	0.942567 -1.06093 CRPC down vs LPC
207323_s_at	MBP	2.68107	2.76502	0.029226	1	0.943466 -1.05992 CRPC down vs LPC
207357_s_at	GALNT10	2.96631	2.68077	0.004796	1	1.21886 1.21886 CRPC up vs LPC
208289_s_at	EI24	7.86795	7.35567	0.003676	0.175533	1.4263 1.4263 CRPC up vs LPC
208718_at	DDX17	9.84023	9.49121	0.002196	1	1.27369 1.27369 CRPC up vs LPC
208779_x_at	DDR1	4.21152	4.97581	0.000955	0.44583	0.588743 -1.69853 CRPC down vs LPC
209018_s_at	PINK1	3.44313	3.73488	0.00027	0.126079	0.816905 -1.22413 CRPC down vs LPC
209281_s_at	ATP2B1	3.81409	3.12099	0.003633	1	1.61676 1.61676 CRPC up vs LPC
209703_x_at	METTL7A	3.78311	3.45688	0.001298	0.606272	1.25373 1.25373 CRPC up vs LPC
209894_at	LEPR	4.75102	3.51264	0.000618	0.288657	2.35932 2.35932 CRPC up vs LPC
209935_at	ATP2C1	4.61897	5.55486	0.015315	1	0.522719 -1.91308 CRPC down vs LPC
210968_s_at	RTN4 RTN4	8.65247	9.24543	0.000615	0.287038	0.662978 -1.50834 CRPC down vs LPC
211355_x_at	LEPR	1.98326	1.83094	0.000637	0.297606	1.11136 1.11136 CRPC up vs LPC
211509_s_at	RTN4 RTN4	9.72822	10.0478	0.033424	1	0.80129 -1.24799 CRPC down vs LPC
212235_at	PLXND1	3.6292	2.99626	3.05E-07	0.000143	1.55072 1.55072 CRPC up vs LPC
212994_at	THOC2	5.7647	4.85862	0.007333	1	1.87396 1.87396 CRPC up vs LPC
213101_s_at	ACTR3	10.3872	9.92597	0.000218	0.101778	1.37668 1.37668 CRPC up vs LPC
213229_at	DICER1	4.74468	6.70308	5.64E-05	0.026345	0.257314 -3.8863 CRPC down vs LPC
213236_at	SASH1	3.19483	3.8054	0.001675	0.782051	0.654941 -1.52686 CRPC down vs LPC
214151_s_at	CCPG1	3.4137	4.28559	2.78E-05	0.013005	0.54643 -1.83006 CRPC down vs LPC
214152_at	CCPG1	2.88356	3.70586	8.53E-06	0.003984	0.565538 -1.76823 CRPC down vs LPC
218714_at	PRR14	3.69345	3.99097	0.046046	1	0.813646 -1.22904 CRPC down vs LPC
221156_x_at	CCPG1	2.64706	2.87104	0.002871	1	0.856203 -1.16795 CRPC down vs LPC
221511_x_at	CCPG1	3.4184	3.83737	0.01082	1	0.747954 -1.33698 CRPC down vs LPC
221512_at	TMEM222	2.86846	3.36451	7.52E-06	0.003514	0.709045 -1.41035 CRPC down vs LPC
221537_at	PLXNA1	3.36664	3.0033	2.59E-05	0.012084	1.2864 1.2864 CRPC up vs LPC
222076_at	HBEGF	2.30693	2.38661	0.010163	1	0.946267 -1.05678 CRPC down vs LPC
200050_at	ZNF146	9.47196	9.17341	0.045202	1	1.2299 1.2299 CRPC up vs LPC
200594_x_at	HNRNPU	8.9972	8.44941	0.00038	0.177606	1.46185 1.46185 CRPC up vs LPC
200606_at	DSP	8.92823	9.83447	0.008044	1	0.533577 -1.87414 CRPC down vs LPC
200710_at	ACADVL	7.53881	8.15278	0.020598	1	0.653398 -1.53046 CRPC down vs LPC
200864_s_at	RAB11A	5.68978	6.39702	0.029307	1	0.61249 -1.63268 CRPC down vs LPC
200906_s_at	PALLD	2.35534	2.58537	0.001034	0.482727	0.852614 -1.17286 CRPC down vs LPC
200941_at	HSBP1	6.79229	7.92946	1.69E-05	0.007897	0.454651 -2.19949 CRPC down vs LPC
200972_at	TSPAN3 TSPAN3	4.03694	4.39701	0.028484	1	0.779127 -1.28349 CRPC down vs LPC
200976_s_at	TAX1BP1	9.21256	9.55359	0.020678	1	0.789478 -1.26666 CRPC down vs LPC
200983_x_at	CD59	6.28518	5.45365	0.000979	0.45701	1.77956 1.77956 CRPC up vs LPC
201029_s_at	CD99	9.76855	10.3317	0.004379	1	0.676842 -1.47745 CRPC down vs LPC
201044_x_at	DUSP1	3.06049	3.35669	3.19E-06	0.001491	0.814393 -1.22791 CRPC down vs LPC
201739_at	SGK1	5.44414	4.2075	0.021232	1	2.3565 2.3565 CRPC up vs LPC
201778_s_at	KIAA0494	7.96526	8.61169	0.000359	0.167674	0.638858 -1.56529 CRPC down vs LPC
201830_s_at	NET1	4.4776	3.60656	0.016804	1	1.82898 1.82898 CRPC up vs LPC
202669_s_at	EFNB2	2.14767	3.14074	0.00057	0.266079	0.502407 -1.99042 CRPC down vs LPC
202878_s_at	CD93	4.36141	2.90004	1.79E-06	0.000836	2.7537 2.7537 CRPC up vs LPC
203227_s_at	TSPAN31 TSPAN31	4.05458	4.50453	0.01599	1	0.732071 -1.36599 CRPC down vs LPC
203303_at	DYNLT3	7.88873	7.17995	0.020067	1	1.63442 1.63442 CRPC up vs LPC
203319_s_at	ZNF148	3.28415	3.82391	7.01E-05	0.032752	0.687884 -1.45373 CRPC down vs LPC
203440_at	CDH2	3.08936	2.80538	0.04865	1	1.21755 1.21755 CRPC up vs LPC
203455_s_at	SAT1	10.1491	10.6656	0.016962	1	0.699056 -1.4305 CRPC down vs LPC
203868_s_at	VCAM1	5.33735	3.85767	5.73E-05	0.026761	2.78888 2.78888 CRPC up vs LPC
204011_at	SPRY2	2.69665	2.94818	0.001124	0.524825	0.840004 -1.19047 CRPC down vs LPC
204296_at	DCTN1	2.34056	2.50384	0.00011	0.051236	0.892992 -1.11983 CRPC down vs LPC
204348_s_at	AK3L1	4.26185	5.49548	9.34E-08	4.36E-05	0.425247 -2.35158 CRPC down vs LPC
204387_x_at	MRP63	9.31058	8.7385	1.89E-06	0.000881	1.48666 1.48666 CRPC up vs LPC
204393_s_at	ACPP	10.3468	12.5593	1.16E-10	5.41E-08	0.215764 -4.63469 CRPC down vs LPC

204474_at	ZNF142	2.95184	3.07302	0.037779	1	0.919438	-1.08762	CRPC down vs LPC
204745_x_at	MT1G	5.9446	7.83438	1.80E-05	0.008409	0.269847	-3.7058	CRPC down vs LPC
204791_at	NR2C1	3.16163	2.79028	0.013704	1	1.29356	1.29356	CRPC up vs LPC
204854_at	GPR162 /// LEPREL	2.67335	2.81052	0.00076	0.354689	0.909301	-1.09975	CRPC down vs LPC
205031_at	EFNB3	2.58969	2.25161	3.15E-08	1.47E-05	1.26407	1.26407	CRPC up vs LPC
205133_s_at	HSPE1 HSPE1	9.59063	9.03913	0.004102	1	1.46561	1.46561	CRPC up vs LPC
205648_at	WNT2	3.38519	3.10437	0.033853	1	1.21488	1.21488	CRPC up vs LPC
205701_at	IPO8	2.40446	2.31608	0.042983	1	1.06317	1.06317	CRPC up vs LPC
205882_x_at	ADD3	5.05618	3.94533	0.034757	1	2.15973	2.15973	CRPC up vs LPC
206461_x_at	MT1H	7.66703	9.11491	0.000161	0.07504	0.366559	-2.72807	CRPC down vs LPC
207092_at	LEP	3.07666	2.95373	0.041779	1	1.08895	1.08895	CRPC up vs LPC
207377_at	PPP1R2P9	2.50325	2.59567	0.034015	1	0.937947	-1.06616	CRPC down vs LPC
207585_s_at	RPL36AL	9.28269	10.1267	6.21E-06	0.002902	0.557092	-1.79504	CRPC down vs LPC
207598_x_at	XRCC2	5.1523	4.68841	0.002911	1	1.37926	1.37926	CRPC up vs LPC
207656_s_at	ACOX1	2.63427	2.79575	2.41E-05	0.011258	0.894109	-1.11843	CRPC down vs LPC
207798_s_at	ATXN2L	2.23	2.33202	0.010457	1	0.931727	-1.07328	CRPC down vs LPC
207981_s_at	ESRRG	2.92132	3.37431	0.010037	1	0.730529	-1.36887	CRPC down vs LPC
208383_s_at	PKC1	2.63859	2.75217	0.041284	1	0.924287	-1.08191	CRPC down vs LPC
208735_s_at	CTDSP2	3.33154	3.92609	1.28E-06	0.000599	0.662255	-1.50999	CRPC down vs LPC
208890_s_at	PLXNB2	6.08033	7.09752	0.00066	0.308037	0.494081	-2.02396	CRPC down vs LPC
209019_s_at	PINK1	6.18517	6.78311	0.001137	0.530977	0.660695	-1.51356	CRPC down vs LPC
209043_at	PAPSS1	8.57266	9.5998	0.000581	0.271414	0.490684	-2.03797	CRPC down vs LPC
209072_at	MBP	2.14899	2.32247	0.000849	0.396323	0.886699	-1.12778	CRPC down vs LPC
209227_at	TUSC3	3.04729	3.56868	0.005867	1	0.696699	-1.43534	CRPC down vs LPC
209398_at	HIST1H1C	6.52166	8.39693	0.000333	0.155599	0.272577	-3.66868	CRPC down vs LPC
209847_at	CDH17	2.579	2.30782	0.014949	1	1.20679	1.20679	CRPC up vs LPC
209893_s_at	FUT4	2.41598	2.32236	0.00853	1	1.06704	1.06704	CRPC up vs LPC
210736_x_at	DTNA	3.23825	3.34183	0.041328	1	0.930724	-1.07443	CRPC down vs LPC
210749_x_at	DDR1	3.82847	4.26627	0.043039	1	0.738258	-1.35454	CRPC down vs LPC
210933_s_at	FSCN1	3.07297	2.87575	2.11E-06	0.000984	1.14649	1.14649	CRPC up vs LPC
211137_s_at	ATP2C1	5.74566	6.79969	0.018396	1	0.48162	-2.07633	CRPC down vs LPC
211356_x_at	LEPR	2.03136	1.8775	0.001481	0.691741	1.11254	1.11254	CRPC up vs LPC
211423_s_at	SC5DL	7.63336	9.34235	0.000172	0.080167	0.305875	-3.26931	CRPC down vs LPC
211424_x_at	METTL7A	3.12259	2.94487	0.048203	1	1.1311	1.1311	CRPC up vs LPC
211486_s_at	KCNQ2	2.25986	2.36304	0.028838	1	0.930975	-1.07414	CRPC down vs LPC
211747_s_at	LSM5	6.56744	6.15506	0.03211	1	1.33088	1.33088	CRPC up vs LPC
212185_x_at	MT2A	8.83896	9.77085	0.006759	1	0.524171	-1.90777	CRPC down vs LPC
212298_at	NRP1	5.68767	4.77328	0.034004	1	1.88477	1.88477	CRPC up vs LPC
212310_at	MIA3	5.17492	6.53219	0.003197	1	0.39032	-2.562	CRPC down vs LPC
212586_at	CAST	7.56773	8.60201	0.000645	0.301442	0.488259	-2.04809	CRPC down vs LPC
212838_at	DNMBP	4.52912	5.72664	1.38E-09	6.46E-07	0.436026	-2.29344	CRPC down vs LPC
212859_x_at	MT1E	7.59458	9.3622	2.38E-06	0.00111	0.293693	-3.40491	CRPC down vs LPC
212930_at	ATP2B1	2.89636	2.61745	0.036028	1	1.21328	1.21328	CRPC up vs LPC
212942_s_at	KIAA1199	2.24225	1.98259	0.000623	0.290874	1.1972	1.1972	CRPC up vs LPC
213030_s_at	PLXNA2	2.73023	2.54765	0.049244	1	1.13491	1.13491	CRPC up vs LPC
213102_at	ACTR3	6.61804	5.90098	0.000538	0.251038	1.64382	1.64382	CRPC up vs LPC
213241_at	PLXNC1	3.22574	2.85236	0.012907	1	1.29539	1.29539	CRPC up vs LPC
213298_at	NFIC	2.63003	2.86375	0.000152	0.070902	0.850438	-1.17586	CRPC down vs LPC
213319_s_at	CSDA	2.58208	2.89552	3.28E-06	0.00153	0.804724	-1.24266	CRPC down vs LPC
213369_at	PCDH21	1.93109	2.11073	1.52E-06	0.000709	0.882924	-1.1326	CRPC down vs LPC
213544_at	ING2	2.00572	1.91179	0.001924	0.898479	1.06728	1.06728	CRPC up vs LPC
213661_at	PAMR1	4.23116	4.84534	0.001402	0.65487	0.653302	-1.53069	CRPC down vs LPC
213998_s_at	DDX17	3.47357	2.80296	0.004952	1	1.59174	1.59174	CRPC up vs LPC
214364_at	MTERFD2	2.90348	3.06254	0.011603	1	0.895607	-1.11656	CRPC down vs LPC
214433_s_at	SELENBP1	7.7401	6.43016	0.000952	0.444812	2.47931	2.47931	CRPC up vs LPC
214614_at	MNX1	2.99291	3.25204	0.036365	1	0.835593	-1.19675	CRPC down vs LPC
214620_x_at	PAM	2.91645	3.40823	0.000998	0.46615	0.711146	-1.40618	CRPC down vs LPC
214629_x_at	RTN4 RTN4	10.6131	10.9501	0.002739	1	0.791664	-1.26316	CRPC down vs LPC
215728_s_at	ACOT7	2.45936	2.62577	0.000582	0.271895	0.891057	-1.12226	CRPC down vs LPC
216027_at	TMX4	2.03269	2.10211	0.016854	1	0.953016	-1.0493	CRPC down vs LPC
216248_s_at	NR4A2 NR4A2	2.92661	4.55895	0.000878	0.409942	0.322564	-3.10016	CRPC down vs LPC
216264_s_at	LAMB2	3.82581	5.0392	0.000339	0.158414	0.431255	-2.31882	CRPC down vs LPC
216281_at	DICER1	2.33971	2.48452	0.000145	0.067548	0.904496	-1.10559	CRPC down vs LPC
216336_x_at	MT1E /// MT1H /// M	5.53953	6.66008	6.19E-05	0.028897	0.459917	-2.17431	CRPC down vs LPC
216396_s_at	EI24	5.61277	4.8327	0.002374	1	1.71721	1.71721	CRPC up vs LPC
217016_x_at	TMEM212	3.73991	3.45489	0.001519	0.70923	1.21842	1.21842	CRPC up vs LPC
217256_x_at	RPL36A	9.1655	9.39183	0.045378	1	0.854805	-1.16986	CRPC down vs LPC
217588_at	CATSPER2 /// CAT5	3.25937	2.92004	4.27E-05	0.019918	1.26517	1.26517	CRPC up vs LPC
217844_at	CTDSP1	4.91229	5.22949	0.000101	0.047163	0.802626	-1.24591	CRPC down vs LPC
217858_s_at	ARMCX3	7.20183	8.0984	0.000553	0.258439	0.537165	-1.86163	CRPC down vs LPC
217875_s_at	PMEPA1 PMEPA1	5.09163	5.89714	0.000169	0.078933	0.572158	-1.74777	CRPC down vs LPC
218113_at	TMEM2	5.06821	4.25277	0.003464	1	1.75984	1.75984	CRPC up vs LPC
218218_at	APPL2	3.53689	3.11354	0.027444	1	1.34104	1.34104	CRPC up vs LPC
218392_x_at	SFXN1	4.39663	4.03318	0.020906	1	1.2865	1.2865	CRPC up vs LPC

218633_x_at	ABHD10	5.76356	6.41625	0.017258	1	0.636092	-1.5721	CRPC down vs LPC
218717_s_at	LEPREL1	3.00422	4.89164	0.002635	1	0.270291	-3.69972	CRPC down vs LPC
218765_at	SIDT2	6.76565	7.04472	0.005923	1	0.824125	-1.21341	CRPC down vs LPC
218868_at	ACTR3B	2.87477	2.74294	0.026812	1	1.09568	1.09568	CRPC up vs LPC
219162_s_at	MRPL11	3.80059	3.3936	7.20E-05	0.033628	1.32592	1.32592	CRPC up vs LPC
219259_at	SEMA4A	3.51138	3.79868	0.000106	0.049365	0.819432	-1.22036	CRPC down vs LPC
219363_s_at	MTERFD1	5.2875	4.2309	2.05E-05	0.009579	2.08003	2.08003	CRPC up vs LPC
219390_at	FKBP14	2.99413	2.83761	0.005885	1	1.11459	1.11459	CRPC up vs LPC
219569_s_at	TMEM22	2.46258	2.34065	0.025628	1	1.08819	1.08819	CRPC up vs LPC
219690_at	TMEM149	3.45974	3.23095	0.005514	1	1.17185	1.17185	CRPC up vs LPC
219963_at	DUSP13	2.49779	2.69394	1.89E-05	0.008826	0.872877	-1.14564	CRPC down vs LPC
220038_at	C8orf44 /// SGK3	2.48225	2.69939	0.004872	1	0.860273	-1.16242	CRPC down vs LPC
220052_s_at	TINF2	6.15675	6.4096	0.006829	1	0.839235	-1.19156	CRPC down vs LPC
220296_at	GALNT10	3.12283	2.76968	2.88E-05	0.013461	1.27734	1.27734	CRPC up vs LPC
220325_at	TAF7L	2.22056	2.2997	0.033094	1	0.946621	-1.05639	CRPC down vs LPC
220374_at	KLHL28	2.95025	2.64808	0.010293	1	1.233	1.233	CRPC up vs LPC
220558_x_at	TSPAN32 TSPAN32	2.85654	3.15423	0.002104	0.982496	0.813551	-1.22918	CRPC down vs LPC
220803_at	STAMBPL1	2.38193	2.48696	0.022796	1	0.929781	-1.07552	CRPC down vs LPC
221479_s_at	BNIP3L	8.16364	7.41766	0.02425	1	1.67712	1.67712	CRPC up vs LPC
221538_s_at	PLXNA1	3.36764	2.76456	0.006451	1	1.51896	1.51896	CRPC up vs LPC
221558_s_at	LEF1 LEF1	3.94891	2.90739	0.000381	0.177979	2.05839	2.05839	CRPC up vs LPC
221597_s_at	TMEM208	5.44212	5.89813	0.046507	1	0.729001	-1.37174	CRPC down vs LPC
221873_at	ZNF143	3.62034	3.35559	0.049745	1	1.20143	1.20143	CRPC up vs LPC
222102_at	GSTA3	3.53068	3.15331	0.016293	1	1.29898	1.29898	CRPC up vs LPC
222122_s_at	THOC2	7.4082	6.54923	8.90E-05	0.041571	1.81374	1.81374	CRPC up vs LPC
222156_x_at	CCPG1	2.65323	3.0261	0.005089	1	0.772246	-1.29492	CRPC down vs LPC
222264_at	HNRNPUL2	2.76031	3.0861	2.57E-07	0.00012	0.797856	-1.25336	CRPC down vs LPC
38037_at	HBEGF	3.13556	3.33007	0.006169	1	0.873869	-1.14434	CRPC down vs LPC
38671_at	PLXND1	4.0295	3.27565	3.33E-05	0.015567	1.68629	1.68629	CRPC up vs LPC
41644_at	SASH1	4.32425	5.09562	0.002788	1	0.585863	-1.70688	CRPC down vs LPC
44617_at	OGFOD2	2.59031	2.45836	0.002931	1	1.09577	1.09577	CRPC up vs LPC
45687_at	PRR14	4.96714	5.82778	2.17E-07	0.000102	0.55071	-1.81584	CRPC down vs LPC
52078_at	TMEM222	3.82751	4.19695	8.04E-05	0.037527	0.774081	-1.29185	CRPC down vs LPC



ACCEPTED MANUSCRIPT

Probeset ID Gene Symbol Mean(Cancer) Mean(Normal) p-value (Cancer vs. Normal) Fold-Change(Cancer vs. Normal)

226599_at	FHDC1	6.03094	8.17619	9.16E-15	-4.42368
216264_s_a	LAMB2	7.51427	8.61575	2.35E-08	-2.14574
204388_s_a	MAOA	9.59815	8.73517	3.88E-05	1.81879
233477_at	KLK15	3.99224	2.59891	0.000219	2.62683
218439_s_a	COMMD10	5.10184	4.61776	0.00053	1.3987
218729_at	LXN	7.57073	8.44795	0.00091	-1.83683
221462_x_a	KLK15	2.35531	2.07	0.001947	1.21867
209917_s_a	TP53TG1	8.18085	7.75153	0.007276	1.3466
1556601_a	SPATA13	3.16182	3.54543	0.007563	-1.3046
222450_at	PMEPA1	11.8498	12.1604	0.008439	-1.24021
204368_at	SLCO2A1	7.06217	7.5319	0.010033	-1.38484
210241_s_a	TP53TG1	6.50186	6.15722	0.013391	1.26983
210886_x_a	TP53TG1	6.01018	5.69051	0.017051	1.24805
201778_s_a	KIAA0494	9.52366	9.65807	0.017051	-1.09764
232770_at	TUSC3	2.01056	2.24977	0.029175	-1.18035
204347_at	AK3L1	6.79349	7.1594	0.026701	-1.28869
204011_at	SPRY2	5.46913	7.32445	7.39E-16	-3.61832
224870_at	KIAA0114	9.03128	7.79843	1.18E-15	2.3503
224807_at	GRAMD1A	7.26694	6.45879	9.16E-15	1.75096
207761_s_a	METTL7A	9.98384	11.3584	5.83E-12	-2.59287
201406_at	RPL36A	11.6833	10.9931	8.13E-12	1.61351
56256_at	SIDT2	10.5334	11.3783	8.23E-12	-1.79615
200863_s_a	RAB11A	10.9747	10.3343	1.85E-11	1.5587
218765_at	SIDT2	7.69717	8.42201	7.27E-11	-1.65272
212586_at	CAST	10.4559	11.0634	7.32E-11	-1.52356
228098_s_a	MYLIP	8.90186	8.08886	1.36E-10	1.75686
213062_at	NTAN1	6.94051	8.01241	2.56E-10	-2.1022
223130_s_a	MYLIP	8.76253	8.09588	3.06E-10	1.58738
217256_x_a	RPL36A	9.90246	9.48859	5.77E-10	1.33226
205133_s_a	HSPE1	10.1434	9.59243	6.36E-10	1.46511
233317_at	CD9	2.48529	3.4832	1.48E-09	-1.99711
213061_s_a	NTAN1	6.79577	7.87367	5.67E-09	-2.11097
225128_at	KDELC2	6.83248	7.83518	5.86E-09	-2.00375
218718_at	PDGFC	8.35255	9.60267	1.01E-08	-2.3786
207335_x_a	ATP5I	10.8891	10.585	1.27E-08	1.23464
242546_at	FLJ39632	6.78478	9.22828	2.03E-08	-5.4396
201581_at	TMX4	9.42371	9.85947	2.15E-08	-1.35263
231882_at	FLJ39632	5.24763	7.23972	3.33E-08	-3.97812
222719_s_a	PDGFC	1.53539	1.87915	3.43E-08	-1.26906
235231_at	ZNF789	6.64903	7.99422	4.49E-08	-2.54064
223129_x_a	MYLIP	7.43617	6.71042	5.08E-08	1.65376
226996_at	LCLAT1	9.13459	8.57169	7.7E-08	1.47724
210510_s_a	NRP1	5.0994	2.96192	1.24E-07	4.39993
223032_x_a	PRELID1	8.7443	8.30915	1.28E-07	1.35205
211509_s_a	RTN4	11.8304	12.2308	1.49E-07	-1.31984
218113_at	TMEM2	6.24181	5.08427	1.69E-07	2.23076
221269_s_a	SH3BGRL3	7.07668	6.2079	1.91E-07	1.82611
209281_s_a	ATP2B1	7.39793	6.46638	1.96E-07	1.90732
223044_at	SLC40A1	9.85622	10.527	3.23E-07	-1.59188
200985_s_a	CD59	9.37779	9.82713	3.27E-07	-1.36542
218421_at	CERK	3.60365	4.78712	3.92E-07	-2.27123
205031_at	EFNB3	2.17225	2.63051	5.25E-07	-1.37388
201032_at	BLCAP	9.52611	9.9179	5.28E-07	-1.31203
200897_s_a	PALLD	10.1388	10.9257	8.37E-07	-1.72529
1557535_at	PALLD	1.98419	2.42443	8.59E-07	-1.35684
228097_at	MYLIP	2.74223	2.23938	1.14E-06	1.417
201034_at	ADD3	9.37704	10.5699	1.14E-06	-2.28604
235591_at	SSTR1	4.60946	2.20448	1.26E-06	5.2963

223776_x_a	TINF2	7.6666	7.3014	1.31E-06	1.28806
220319_s_a	MYLIP	6.07291	5.19404	1.33E-06	1.83894
227279_at	TCEAL3	9.60261	9.97359	1.61E-06	-1.29323
212463_at	CD59	8.38732	8.93929	1.76E-06	-1.46609
200907_s_a	PALLD	7.78577	8.68495	1.91E-06	-1.865
201951_at	ALCAM	9.28136	8.60671	2.02E-06	1.59621
200864_s_a	RAB11A	9.27571	8.79493	2.08E-06	1.3955
214629_x_a	RTN4	11.4944	11.8457	2.21E-06	-1.27572
201931_at	ETFA	9.42661	8.94496	2.55E-06	1.39634
221478_at	BNIP3L	9.00509	9.48698	3.19E-06	-1.39656
227812_at	TNFRSF19	7.40882	9.514	3.91E-06	-4.3025
204393_s_a	ACPP	12.9258	13.5261	4.21E-06	-1.51603
209492_x_a	ATP5I	11.2499	10.9652	4.41E-06	1.21822
214076_at	GFOD2	4.91321	4.20756	5.71E-06	1.63088
205882_x_a	ADD3	6.28688	8.01072	5.72E-06	-3.30314
211747_s_a	LSM5	9.24178	8.77983	6.26E-06	1.3774
201752_s_a	ADD3	6.39712	7.81996	9.24E-06	-2.68113
204949_at	ICAM3	7.99766	7.41117	9.62E-06	1.50159
201753_s_a	ADD3	8.40729	9.62706	9.72E-06	-2.3291
214614_at	MNX1	4.41113	3.69357	1.07E-05	1.6444
224809_x_a	TINF2	8.61001	8.30726	1.6E-05	1.2335
201005_at	CD9	12.1738	12.7811	2.09E-05	-1.52338
201952_at	ALCAM	11.3084	10.871	2.64E-05	1.35415
204389_at	MAOA	7.42044	6.3699	3.65E-05	2.07131
200984_s_a	CD59	8.26056	8.84578	3.88E-05	-1.50027
215198_s_a	CALD1	2.88448	3.21388	4.09E-05	-1.25649
222444_at	ARMCX3	10.2513	10.5754	4.62E-05	-1.25184
223001_at	OSTC	8.84079	8.4625	7.45E-05	1.29981
224232_s_a	PRELID1	7.99069	7.5665	9E-05	1.34182
235834_at	CALD1	3.99276	4.69752	9.56E-05	-1.62988
230069_at	SFXN1	3.78778	4.5043	0.000101	-1.64321
212185_x_a	MT2A	10.7302	11.574	0.000114	-1.79483
210968_s_a	RTN4	11.1878	11.5224	0.000117	-1.26104
227291_s_a	BOLA3	10.0136	9.67742	0.000147	1.26237
200906_s_a	PALLD	8.18246	9.05688	0.000152	-1.83327
220052_s_a	TINF2	5.59439	5.22159	0.000198	1.29486
201830_s_a	NET1	7.95562	7.32717	0.000208	1.5459
215716_s_a	ATP2B1	7.14532	6.50821	0.000213	1.5552
1569194_at	ZNF789	2.31569	2.70783	0.000218	-1.31233
228938_at	MBP	1.65384	1.55444	0.000256	1.07133
235603_at	HNRNPU	3.75165	4.35868	0.000303	-1.52312
225912_at	TP53INP1	11.3088	10.9529	0.00033	1.27976
1563505_at	DUSP16	2.19087	2.47057	0.000334	-1.21394
209019_s_a	PINK1	8.54603	8.87632	0.000347	-1.25727
209043_at	PAPSS1	9.14612	8.72829	0.000364	1.33591
225395_s_a	FAM120AOS	8.91891	8.65434	0.000406	1.20128
1555867_at	GNG4	6.91025	8.35939	0.000453	-2.73045
224973_at	FAM46A	4.52479	5.1941	0.000466	-1.59032
209072_at	MBP	2.27163	2.01966	0.000572	1.19083
224832_at	DUSP16	8.08693	8.52225	0.000651	-1.35221
202165_at	PPP1R2	5.52943	5.8762	0.000741	-1.2717
206461_x_a	MT1H	8.92277	9.84938	0.000794	-1.9008
218976_at	DNAJC12	5.69057	4.5743	0.000812	2.16785
204745_x_a	MT1G	9.83788	10.8208	0.000824	-1.9764
1561365_at	NRP1	2.05906	1.84801	0.000995	1.15753
221766_s_a	FAM46A	7.50424	8.24271	0.001049	-1.66841
212930_at	ATP2B1	4.96472	4.50472	0.001089	1.37554
211423_s_a	SC5DL	10.565	10.9049	0.001102	-1.26567
212859_x_a	MT1E	9.5521	10.5071	0.001242	-1.93862

201777_s_a KIAA0494	6.43988	5.86778	0.001434	1.48668
202770_s_a CCNG2	8.34466	7.88651	0.001537	1.37377
1554544_a MBP	4.71801	4.27151	0.001546	1.36273
218085_at CHMP5	10.7218	10.9256	0.001725	-1.15178
200026_at RPL34	11.9798	11.8122	0.001834	1.1232
229524_at KIAA0494	1.92013	1.80464	0.001985	1.08334
205525_at CALD1	5.05614	5.62741	0.00213	-1.48583
201615_x_a CALD1	9.29003	9.85843	0.0022	-1.48288
221028_s_a GFOD2	4.1421	3.71942	0.002222	1.34041
238127_at FLJ41484	3.88056	3.12507	0.002228	1.68821
219197_s_a SCUBE2	6.25645	8.12277	0.002271	-3.64599
238063_at TMEM154	2.95914	3.5642	0.00245	-1.52104
202769_at CCNG2	12.1356	11.9296	0.002562	1.15351
211559_s_a CCNG2	2.4387	2.162	0.002669	1.21142
225407_at MBP	8.0136	7.58797	0.002711	1.34316
214552_s_a RABEP1	6.68184	6.09626	0.002866	1.50064
242307_at ZNF789	2.06282	2.24417	0.002879	-1.13394
210883_x_a EFNB3	2.23207	2.11774	0.002886	1.08247
221479_s_a BNIP3L	7.89238	8.22423	0.002918	-1.25862
203223_at RABEP1	4.10377	3.41792	0.00305	1.60866
221511_x_a CCPG1	7.27613	7.66997	0.003085	-1.31389
209112_at CDKN1B	9.85088	10.1359	0.003139	-1.2184
202071_at SDC4	8.51812	9.185	0.003286	-1.58763
200710_at ACADVL	9.71694	10.1402	0.003453	-1.34098
217816_s_a PCNP	9.84232	9.99967	0.003638	-1.11524
207357_s_a GALNT10	4.7775	4.21483	0.00393	1.477
227153_at IMMP2L	6.19145	5.83942	0.004205	1.27635
231832_at GALNT4	5.78784	6.26294	0.004503	-1.39001
201580_s_a TMX4	6.82058	7.21547	0.004544	-1.31484
230485_at LOC644844	2.89978	2.69363	0.00464	1.15361
1555351_s_PPHLN1	2.747	2.46627	0.005069	1.21481
201829_at NET1	9.60511	9.33617	0.005466	1.20492
214152_at CCPG1	8.45482	8.71906	0.005519	-1.20101
209703_x_a METTL7A	2.5643	2.81196	0.006227	-1.18729
227962_at ACOX1	6.57929	6.89479	0.006288	-1.24444
217875_s_a PMEPA1	9.24476	9.65001	0.006448	-1.32433
233322_at CD9	2.11362	2.01309	0.006623	1.07217
222156_x_a CCPG1	5.76095	6.21795	0.006879	-1.37268
244721_at TP53INP1	2.48848	2.3657	0.006948	1.08883
225817_at CGNL1	9.0842	9.40337	0.007428	-1.24761
240336_at HBM	1.64326	1.55651	0.008174	1.06198
221558_s_a LEF1	5.12671	4.2538	0.008207	1.83134
204386_s_a MRP63	10.8238	10.6354	0.008549	1.1395
228748_at CD59	3.27452	3.68198	0.008787	-1.32635
200942_s_a HSBP1	8.13305	7.87333	0.009627	1.19724
219854_at ZNF14	6.31057	6.60392	0.010304	-1.22548
218376_s_a MICAL1	6.01476	6.55971	0.010382	-1.45897
212994_at THOC2	7.68123	7.42736	0.010685	1.1924
235311_at FKBP14	2.69651	3.07088	0.010818	-1.29627
209077_at TXN2	8.64917	8.45911	0.010846	1.14081
226304_at HSPB6	2.13164	2.27709	0.011369	-1.10607
234072_at SEMA4A	2.55902	2.74918	0.011793	-1.1409
201776_s_a KIAA0494	7.01422	6.62922	0.011942	1.30586
200976_s_a TAX1BP1	9.81503	9.63981	0.012568	1.12914
1569847_at CGNL1	4.47048	4.97419	0.012738	-1.41785
218774_at DCPS	4.42209	4.04886	0.01315	1.29525
210136_at MBP	7.99522	7.44549	0.013164	1.46381
203304_at BAMBI	7.36	6.29589	0.013352	2.09089
230555_s_a MED30	1.82061	1.73241	0.013435	1.06304

212077_at	CALD1	11.7094	11.9202	0.014109	-1.15729
208289_s_a	EI24	8.79584	8.65419	0.014586	1.10317
231881_at	CALD1	1.94049	2.11276	0.015479	-1.12683
209263_x_a	TSPAN4	6.84357	7.17854	0.015805	-1.26135
213998_s_a	DDX17	10.3967	10.7013	0.015885	-1.23507
202904_s_a	LSM5	5.59489	5.1307	0.016136	1.37954
226628_at	THOC2	7.53647	7.30165	0.016291	1.17676
203986_at	STBD1	5.96903	5.42146	0.017352	1.46162
221350_at	HOXC8	2.5006	2.3626	0.017639	1.10038
231915_at	ZSWIM4	2.65348	2.44452	0.017686	1.15585
200996_at	ACTR3	10.2459	10.022	0.019129	1.16785
219690_at	TMEM149	5.02724	4.68847	0.019328	1.26468
207323_s_a	MBP	2.80997	2.67919	0.019517	1.09489
1552944_a	PANX2	2.54187	2.44433	0.019746	1.06995
1555399_a	DUSP16	2.99699	2.86117	0.020477	1.09871
227707_at	MYLIP	1.82563	1.73193	0.020939	1.0671
226626_at	THOC2	8.84925	8.66932	0.021663	1.13283
202100_at	RALB	8.96261	9.22968	0.022582	-1.20335
201023_at	TAF7	10.1016	9.96563	0.022741	1.09881
211137_s_a	ATP2C1	9.67019	9.89307	0.023741	-1.16706
219356_s_a	CHMP5	8.64918	8.82141	0.023943	-1.1268
1554685_a	KIAA1199	1.87933	1.81753	0.023999	1.04376
1555350_at	PPHLN1	2.53887	2.3674	0.024147	1.12621
210592_s_a	SAT1	11.9959	11.767	0.024545	1.17189
232055_at	SFXN1	2.62505	2.84883	0.024643	-1.16779
230360_at	GLDN	2.07103	2.25982	0.02532	-1.13981
201616_s_a	CALD1	6.20512	6.61818	0.027666	-1.3315
214484_s_a	SIGMAR1	4.77049	4.53986	0.027683	1.17334
209078_s_a	TXN2	5.34033	5.11572	0.028282	1.16846
224336_s_a	DUSP16	4.95213	5.25019	0.028553	-1.22949
201401_s_a	ADRBK1	3.24554	3.07877	0.028757	1.12254
237577_at	PCNP	3.09222	3.36987	0.029125	-1.21222
204983_s_a	GPC4	2.43599	2.16956	0.029953	1.20283
212298_at	NRP1	5.12326	4.27199	0.030105	1.80408
225064_at	RABEP1	7.68627	7.25706	0.032178	1.3465
222122_s_a	THOC2	10.0031	9.78622	0.032192	1.16224
236754_at	PPP1R2	4.28558	4.51075	0.032758	-1.16891
223199_at	MKNK2	7.90817	7.64244	0.033047	1.20224
1554339_a	COG3	2.11956	2.41262	0.03308	-1.22523
237030_at	ACPP	8.94445	9.42103	0.03328	-1.39144
200972_at	TSPAN3	9.9883	10.2374	0.033923	-1.18842
1552430_at	WDR17	2.04723	1.9684	0.038327	1.05616
203006_at	INPP5A	9.14741	9.33384	0.039062	-1.13794
210611_s_a	DTNA	1.89753	1.77436	0.039455	1.08912
218633_x_a	ABHD10	8.62215	8.41792	0.039776	1.15207
222102_at	GSTA3	2.0571	1.93826	0.04233	1.08586
236324_at	MBP	1.85072	1.77318	0.042546	1.05521
231002_s_a	RABEP1	6.05711	5.82117	0.043057	1.17767
214151_s_a	CCPG1	7.72294	7.92779	0.044302	-1.15256
223721_s_a	DNAJC12	2.99947	2.70414	0.046833	1.22716
201402_at	ADRBK1	3.53522	3.44005	0.047111	1.06819
233123_at	SLC40A1	2.51377	2.72889	0.048446	-1.1608
203266_s_a	MAP2K4	7.43644	7.64833	0.048861	-1.15821
215213_at	NUP54	1.71623	1.77863	0.049781	-1.0442

## Significant Probe sets (p&lt;0.05 vs. Normal) Unique in each condition

## Overlaps among different conditions

GP3	GP4	GP5	Met	GP3	GP4	GP5	Met	GP3-4	GP3-5	GP4-5	Gp3-Met	GP4-Met	GP5-Met	GP3-4-5	GP3-4-Met	GP3-5-Met	GP4-5-Met	GP3-4-5-M																																																																																																																																																																																																																																																
214552_s_201041_s_204011_at	201041_s_1007_s_at	1553323_a_1554339_a_1554685_a_1555350_a_1564010_a_202101_s_1552430_a_200710_at	210592_s_200983_x_200984_s_1563505_a_1555351_s_1557535_a_224832_at	204011_at	210510_s_204011_at	1554868_s_1555399_a_1554757_a_1555765_a_201032_at	1569194_a_203986_at	1554544_a_200977_s_214151_s_202769_at	200985_s_1569847_a_1555867_a_200863_s_218633_x_210510_s_235591_at	210510_s_200606_at	200593_s_1563112_a_1559023_a_201034_at	200942_s_204708_at	200026_at	201401_s_214152_at	207323_s_201005_at	201830_s_1561365_a_200864_s_200606_at	235591_at	226996_at	235591_at	201402_at	201580_s_200973_s_200594_x_201753_s_203006_at	208719_s_201617_x_203277_at	214880_x_211509_s_201041_s_209019_s_200976_s_200897_s_1554868_s_226996_at	206461_x_226996_at	201752_s_201777_s_201160_s_200996_at	202071_at	203223_at	213998_s_201829_at	205184_at	217774_s_214629_x_201616_s_220319_s_201023_at	200906_s_203303_at	206461_x_1557535_a_206461_x_201778_s_203060_s_201276_at	201044_x_202100_at	204386_s_221478_at	210095_s_209935_at	218774_at	218439_s_205525_at	201615_x_200907_s_226628_at	1557535_a_212185_x_1557535_a_203303_at	203304_at	202166_s_201564_s_202165_at	207357_s_226895_at	212143_s_211559_s_221558_s_227787_s_207222_at	201776_s_201406_at	211137_s_212185_x_233317_at	212185_x_205737_at	203441_s_202904_s_203058_s_202336_s_at	234966_at	221028_s_221479_s_234072_at	228097_at	209043_at	201952_at	201581_at	231002_s_233317_at	204745_x_233317_at	205882_x_208151_x_203266_s_203821_at	207602_at	222122_s_221511_x_243084_at	230906_at	211423_s_at	203265_s_201931_at	207169_x_204745_x_221269_s_204745_x_207169_x_208482_at	203440_at	204347_at	209072_at	223467_at	223199_at	212077_at	204388_s_201951_at	217816_s_221269_s_212859_x_221269_s_208779_x_209892_at	204983_s_204621_s_209112_at	224336_s_231832_at	230972_at	235311_at	214076_at	204745_x_204011_at	223217_s_209281_s_207335_x_212942_s_210508_s_212741_at	205302_at	205107_s_209917_s_at	214767_s_at	206461_x_204393_s_209966_x_207335_x_200863_s_209281_s_210749_x_212958_x_208289_s_205814_at	210241_s_at	218113_at	212298_at	204949_at	205737_at	200863_s_201406_at	207335_x_211137_s_214620_x_209703_x_208718_at	210883_x_at	224809_x_at	212859_x_205031_at	201402_at	201406_at	227962_at	200863_s_214552_s_219390_at	210472_at	210886_x_at	225407_at	212930_at	205133_s_205882_x_227962_at	224807_at	201406_at	217816_s_221350_at	211486_s_210933_s_210968_s_at	225912_at	215716_s_205569_at	243346_at	224807_at	225128_at	227962_at	218633_x_226022_at	213319_s_212942_s_212994_at	228748_at	218376_s_207335_x_244808_at	225128_at	214152_at	224807_at	218995_s_227153_at	213544_at	213101_s_218085_at	230069_at	225395_s_207761_s_222802_at	224809_x_212586_at	225128_at	219356_s_228081_at	213988_s_213236_at	218205_s_at	235834_at	226304_at	209281_s_244721_at	212586_at	242546_at	214152_at	222637_at	229524_at	216280_s_215064_at	218421_at	222637_at	242546_at	1555867_a_224809_x_222802_at	231301_at	216281_at	216248_s_218729_at	1007_s_at	1555867_a_223776_x_221156_x_223217_s_231982_at	216396_s_218714_at	219197_s_at	208779_x_231832_at	212298_at	212586_at	223218_s_232055_at	216855_s_219690_at	219854_at	201752_s_223776_x_200906_s_228298_at	224832_at	238127_at	217875_s_219933_at	221462_x_at	210749_x_212298_at	226599_at	242546_at	226628_at	243201_at	218218_at	221156_x_221766_s_at	219356_s_221511_x_204393_s_223467_at	228634_s_244471_x_221808_at	222156_x_223044_at	228634_s_200906_s_224870_at	1555867_a_231002_s_at	222076_at	225064_at	224973_at	218995_s_201616_s_217256_x_201617_x_231915_at	222450_at	228257_at	226626_at	201778_s_226599_at	215198_s_231832_at	243346_at	223722_at	228298_at	228938_at	216264_s_231915_at	204393_s_231882_at	223776_x_244721_at	224090_s_229015_at	230485_at	217256_x_210508_s_224870_at	223032_x_212298_at	244808_at	224535_s_230815_at	233322_at	218718_at	201041_s_217256_x_200907_s_221511_x_at	204011_at	215198_s_201931_at	200906_s_at	227147_s_242307_at	236324_at	218765_at	210510_s_212463_at	214151_s_201616_s_at	228328_at	38037_at	238063_at	2226996_at	231882_at	56256_at	200996_at	228848_at	38447_at	240336_at	222444_at	1557535_a_223032_x_226304_at	226599_at	231881_at	41644_at	222719_s_212185_x_200907_s_228098_s_204393_s_at	233267_at	45687_at	223001_at	233317_at	201931_at	209492_x_224870_at	233565_s_at	223032_x_221269_s_56256_at	235603_at	230972_at	234495_at	223129_x_209281_s_226304_at	235231_at	217256_x_at	237989_at	223130_s_207335_x_228098_s_223129_x_215198_s_at	239010_at	223776_x_200863_s_209492_x_213062_at	212463_at	244245_at	224232_s_201406_at	235603_at	214614_at	231882_at	224807_at	235231_at	218765_at	223032_x_at	224870_at	225128_at	223129_x_220052_s_200907_s_at	224809_x_213062_at	201951_at	201931_at	226599_at	212586_at	214614_at	207761_s_201564_s_at	226996_at

242546\_at 218765\_at 201615\_x\_214151\_s\_at  
223467\_at 220052\_s\_213061\_s\_56256\_at  
201617\_x\_201951\_at 211747\_s\_226304\_at  
223776\_x\_207761\_s\_222719\_s\_228098\_s\_at  
200906\_s\_201615\_x\_204949\_at 209492\_x\_at  
201616\_s\_213061\_s\_200897\_s\_235603\_at  
226599\_at 211747\_s\_223001\_at 235231\_at  
204393\_s\_222719\_s\_227812\_at 223129\_x\_at  
224870\_at 223199\_at 217774\_s\_213062\_at  
230972\_at 214076\_at 200864\_s\_214614\_at  
217256\_x\_204949\_at 209019\_s\_218765\_at  
215198\_s\_200897\_s\_222444\_at 220052\_s\_at  
212463\_at 223001\_at 201581\_at 201951\_at  
231882\_at 201005\_at 218718\_at 207761\_s\_at  
223032\_x\_227812\_at 201023\_at 201615\_x\_at  
200907\_s\_209935\_at 1563505\_a213061\_s\_at  
201931\_at 228748\_at 212930\_at 1552430\_at  
56256\_at 205525\_at 234072\_at 211747\_s\_at  
228098\_s\_211559\_s\_224232\_s\_212143\_s\_at  
209492\_x\_200864\_s\_214880\_x\_222719\_s\_at  
235603\_at 222444\_at 205031\_at 223199\_at  
235231\_at 201581\_at 220319\_s\_214076\_at  
223129\_x\_218113\_at 225395\_s\_222156\_x\_at  
213062\_at 218718\_at 223130\_s\_204949\_at  
214614\_at 201023\_at 227291\_s\_200897\_s\_at  
218765\_at 212930\_at 1569847\_a200026\_at  
220052\_s\_224232\_s\_205133\_s\_223001\_at  
201951\_at 214767\_s\_218376\_s\_201005\_at  
207761\_s\_205031\_at 203265\_s\_204622\_x\_at  
213061\_s\_230069\_at 205569\_at 227812\_at  
1552430\_a207222\_at 210592\_s\_213101\_s\_at  
211747\_s\_225395\_s\_216264\_s\_217774\_s\_at  
212143\_s\_223130\_s\_227279\_at 216248\_s\_at  
222719\_s\_227291\_s\_221558\_s\_209935\_at  
214076\_at 205133\_s\_204389\_at 228748\_at  
204949\_at 218376\_s\_201952\_at 205525\_at  
200897\_s\_235834\_at 1561365\_a211559\_s\_at  
200026\_at 205184\_at 215716\_s\_200864\_s\_at  
223001\_at 203265\_s\_200976\_s\_209019\_s\_at  
201005\_at 205569\_at 204388\_s\_222444\_at  
227812\_at 200984\_s\_243084\_at 201581\_at  
228748\_at 225407\_at 1555351\_s218113\_at  
205525\_at 212077\_at 201776\_s\_218718\_at  
200864\_s\_216264\_s\_201830\_s\_201023\_at  
209019\_s\_225912\_at 202770\_s\_1563505\_at  
222444\_at 227279\_at 218774\_at 230815\_at  
201581\_at 211423\_s\_1554339\_a212930\_at  
218113\_at 204389\_at 231881\_at 204347\_at  
218718\_at 201952\_at 218218\_at 234072\_at  
1563505\_a1561365\_a221478\_at 204621\_s\_at

ACCEPTED MANUSCRIPT

224232\_s\_215716\_s\_1554757\_a210933\_s\_at  
214767\_s\_200710\_at 200942\_s\_224232\_s\_at  
205031\_at 209043\_at 202166\_s\_214880\_x\_at  
230069\_at 200977\_s\_202769\_at 214767\_s\_at  
207222\_at 200976\_s\_203223\_at 205031\_at  
220319\_s\_204388\_s\_217875\_s\_230069\_at  
223130\_s\_203277\_at 233565\_s\_207222\_at  
227291\_s\_201401\_s\_216280\_s\_220319\_s\_at  
222122\_s\_200985\_s\_226578\_s\_218714\_at  
1569847\_a1555351\_s200983\_x\_205814\_at  
221028\_s\_201776\_s\_216396\_s\_225395\_s\_at  
205133\_s\_202770\_s\_210472\_at 203821\_at  
235834\_at 235311\_at 208719\_s\_223130\_s\_at  
205569\_at 221479\_s\_213988\_s\_1559023\_a\_at  
200984\_s\_218205\_s\_1564010\_a227291\_s\_at  
225407\_at 202336\_s\_237989\_at 222122\_s\_at  
212077\_at 210136\_at 211509\_s\_1569847\_at  
216264\_s\_243201\_at 204708\_at 229015\_at  
225912\_at 221478\_at 216855\_s\_1554685\_a\_at  
227279\_at 224973\_at 208289\_s\_45687\_at  
224336\_s\_201032\_at 201276\_at 221028\_s\_at  
211423\_s\_208151\_x\_233267\_at 205133\_s\_at  
201829\_at 202769\_at 226895\_at 218376\_s\_at  
209043\_at 214620\_x\_223722\_at 235834\_at  
1554544\_a223044\_at 205302\_at 205184\_at  
200985\_s\_218729\_at 228848\_at 203265\_s\_at  
201830\_s\_233322\_at 200973\_s\_205569\_at  
202770\_s\_201580\_s\_204386\_s\_242307\_at  
210095\_s\_201777\_s\_227147\_s\_38447\_at  
218205\_s\_200983\_x\_227787\_s\_210592\_s\_at  
202336\_s\_208719\_s\_203266\_s\_200984\_s\_at  
224973\_at 203060\_s\_234966\_at 225407\_at  
201032\_at 218085\_at 204983\_s\_38037\_at  
200942\_s\_211509\_s\_239010\_at 212077\_at  
202769\_at 204708\_at 203986\_at 213236\_at  
203223\_at 203441\_s\_1569194\_a208718\_at  
223044\_at 236324\_at 213998\_s\_216264\_s\_at  
218729\_at 1555350\_a244245\_at 225912\_at  
233322\_at 202100\_at 214629\_x\_227279\_at  
200983\_x\_212958\_x\_222450\_at 200594\_x\_at  
1564010\_a226895\_at 218439\_s\_219933\_at  
218085\_at 226022\_at 224090\_s\_224336\_s\_at  
211509\_s\_231301\_at 209703\_x\_211423\_s\_at  
236324\_at 227787\_s\_228097\_at 201829\_at  
1555350\_a219390\_at 213319\_s\_221558\_s\_at  
202100\_at 207602\_at 202904\_s\_204389\_at  
204386\_s\_234966\_at 216281\_at 205107\_s\_at  
227787\_s\_203986\_at 207357\_s\_201952\_at  
207602\_at 226626\_at 221808\_at 1561365\_at  
226626\_at 201753\_s\_207323\_s\_215716\_s\_at



201753\_s\_209112\_at 230906\_at 200710\_at  
1569194\_a 1553323\_a 1563112\_a 209043\_at  
209112\_at 213998\_s\_203006\_at 1555765\_a\_at  
201034\_at 201034\_at 234495\_at 41644\_at  
219854\_at 219854\_at 211486\_s\_200977\_s\_at  
210883\_x\_238127\_at 202101\_s\_1554544\_a\_at  
214629\_x\_210883\_x\_203440\_at 203058\_s\_at  
218439\_s\_209892\_at 228328\_at 200976\_s\_at  
202071\_at 214629\_x\_213544\_at 204388\_s\_at  
228938\_at 1555399\_a 204984\_at 219690\_at  
238063\_at 229524\_at 224535\_s\_225064\_at  
228097\_at 212741\_at 201160\_s\_203277\_at  
209917\_s\_218439\_s\_222076\_at 201401\_s\_at  
221766\_s\_202071\_at 243084\_at  
209263\_x\_228938\_at 201044\_x\_at  
212994\_at 200593\_s\_at 200985\_s\_at  
218421\_at 238063\_at 1555351\_s\_at  
207357\_s\_244471\_x\_at 232770\_at  
207323\_s\_228097\_at 228257\_at  
210241\_s\_209917\_s\_at 201776\_s\_at  
230906\_at 221766\_s\_at 201830\_s\_at  
203006\_at 209263\_x\_at 215064\_at  
209072\_at 212994\_at 202770\_s\_at  
240336\_at 221350\_at 235311\_at  
230485\_at 218421\_at 209227\_at  
233477\_at 227153\_at 221479\_s\_at  
202165\_at 203304\_at 210095\_s\_at  
221462\_x\_207323\_s\_at 218774\_at  
219197\_s\_210241\_s\_at  
210968\_s\_230906\_at  
210886\_x\_231982\_at  
208482\_at  
202101\_s\_at  
209072\_at  
240336\_at  
230485\_at  
233477\_at  
232055\_at  
202165\_at  
228081\_at  
221462\_x\_at  
219197\_s\_at  
210968\_s\_at  
210886\_x\_at

et  
it  
at  
at  
at  
at  
at

at

at

at

at  
at  
at  
at  
at  
at  
at

at

at  
at  
at

at  
at

at

at  
at  
at  
at  
at

ACCEPTED MANUSCRIPT

Probeset ID	r	p-value	(cor)	Gene Sym	Gene Title	RefSeq	Transcript ID
210095_s_	0.735032	9.58E-13		IGFBP3	insulin-like	NM_000598	/// NM_001013398
210510_s_	0.712515	9.46E-12		NRP1	neuropilin	NM_001024628	/// NM_001024629 /// NM_003873
212298_at	0.647209	2.46E-09		NRP1	neuropilin	NM_001024628	/// NM_001024629 /// NM_003873
212143_s_	0.63848	4.69E-09		IGFBP3	insulin-like	NM_000598	/// NM_001013398
217774_s_	0.59159	1.08E-07		TRMT112	tRNA meth	NM_016404	
227962_at	-0.58743	1.39E-07		ACOX1	acyl-Coenz	NM_004035	/// NM_007292
202071_at	0.57197	3.48E-07		SDC4	syndecan	NM_002999	
200977_s_	0.560916	6.52E-07		TAX1BP1	Tax1 (hum	NM_001079864	/// NM_006024
223467_at	-0.54723	1.37E-06		RASD1	RAS, dexa	NM_016084	
235591_at	0.546435	1.43E-06		SSTR1	somatostat	NM_001049	
230485_at	-0.51399	7.36E-06		LOC64484	hypothetic	NM_001145643	
210933_s_	0.509907	8.93E-06		FSCN1	fascin hom	NM_003088	
201023_at	0.501177	1.34E-05		TAF7	TAF7 RNA	NM_005642	
205569_at	0.49149	2.08E-05		LAMP3	lysosomal	NM_014398	
228298_at	0.48225	3.12E-05		FAM113B	family with	NM_138371	
201034_at	0.479803	3.47E-05		ADD3	adducin 3	(NM_001121	/// NM_016824 /// NM_019903
214152_at	-0.47836	3.69E-05		CCPG1	cell cycle p	NM_004748	/// NM_020739
200985_s_	0.473419	4.56E-05		CD59	CD59 mole	NM_000611	/// NM_001127223 /// NM_001127225 /// NM_00112722
203303_at	0.469932	5.27E-05		DYNLT3	dynein, lig	NM_006520	
219197_s_	0.46781	5.76E-05		SCUBE2	signal pept	NM_020974	
204011_at	-0.46746	5.84E-05		SPRY2	sprouty hor	NM_005842	
210592_s_	0.461345	7.51E-05		SAT1	spermidine	NM_002970	/// NR_027783
210968_s_	0.461121	7.58E-05		RTN4	reticulon 4	NM_007008	/// NM_020532 /// NM_153828 /// NM_207520 /// NM_20
222802_at	0.459428	8.11E-05		EDN1	endothelin	NM_001955	
231915_at	-0.45135	0.000112		ZSWIM4	zinc finger,	NM_023072	
214151_s_	-0.44866	0.000124		CCPG1	cell cycle p	NM_004748	/// NM_020739
216855_s_	-0.44835	0.000126		HNRNP1	heterogene	NM_004501	/// NM_031844
1554868_s	0.436748	0.000196		PCNP	PEST prote	NM_020357	
201032_at	0.434525	0.000213		BLCAP	bladder car	NM_006698	
233565_s_	0.43063	0.000247		SDCBP2	syndecan t	NM_015685	/// NM_080489
226304_at	-0.42855	0.000266		HSPB6	heat shock	NM_144617	
201753_s_	0.422573	0.000331		ADD3	adducin 3	(NM_001121	/// NM_016824 /// NM_019903
218995_s_	0.420024	0.000363		EDN1	endothelin	NM_001955	
238063_at	0.419351	0.000372		TMEM154	transmemt	NM_152680	
212942_s_	0.416965	0.000404		KIAA1199	KIAA1199	NM_018689	
221462_x_	-0.41477	0.000437		KLK15	kallikrein-r	NM_017509	/// NM_138563 /// NM_138564
203986_at	0.412478	0.000473		STBD1	starch bind	NM_003943	
201776_s_	0.403422	0.000647		KIAA0494	KIAA0494	NM_014774	
226996_at	0.403279	0.00065		LCLAT1	lysocardioli	NM_001002257	/// NM_182551
200984_s_	0.398772	0.000756		CD59	CD59 mole	NM_000611	/// NM_001127223 /// NM_001127225 /// NM_00112722
200976_s_	0.398405	0.000766		TAX1BP1	Tax1 (hum	NM_001079864	/// NM_006024
236324_at	-0.39822	0.00077		MBP	Myelin basi	NM_001025081	/// NM_001025090 /// NM_001025092 /// NM_00102
214629_x_	0.397752	0.000783		RTN4	reticulon 4	NM_007008	/// NM_020532 /// NM_153828 /// NM_207520 /// NM_20
203265_s_	-0.39545	0.000845		MAP2K4	mitogen-ac	NM_003010	
205882_x_	0.394061	0.000885		ADD3	adducin 3	(NM_001121	/// NM_016824 /// NM_019903
211509_s_	0.39382	0.000892		RTN4	reticulon 4	NM_007008	/// NM_020532 /// NM_153828 /// NM_207520 /// NM_20
201752_s_	0.392918	0.000918		ADD3	adducin 3	(NM_001121	/// NM_016824 /// NM_019903
211486_s_	-0.39198	0.000947		KCNQ2	potassium	NM_004518	/// NM_172106 /// NM_172107 /// NM_172108 /// NM_17
1555867_a	-0.39031	0.001		GNG4	guanine nu	NM_001098721	/// NM_001098722 /// NM_004485
202166_s_	0.389879	0.001014		PPP1R2	protein phc	NM_006241	
233477_at	-0.38331	0.001253		KLK15	kallikrein-r	NM_017509	/// NM_138563 /// NM_138564
223218_s_	0.377703	0.001496		NFKB1Z	nuclear fac	NM_001005474	/// NM_031419
216280_s_	-0.3765	0.001554		DICER1	dicer 1, rib	NM_030621	/// NM_177438
201951_at	0.376133	0.001572		ALCAM	activated le	NM_001627	
223450_s_	-0.3744	0.001659		COG3	component	NM_031431	
217816_s_	0.372564	0.001756		PCNP	PEST prote	NM_020357	
203440_at	0.371585	0.001809		CDH2	cadherin 2,	NM_001792	
213319_s_	-0.3704	0.001876		CSDA	Cold shock	NM_001145426	/// NM_003651
201952_at	0.369158	0.001949		ALCAM	activated le	NM_001627	
228634_s_	-0.36708	0.002076		CSDA	Cold shock	NM_001145426	/// NM_003651
236492_at	-0.36647	0.002115		PPP2R2A	protein phi	NM_002717	

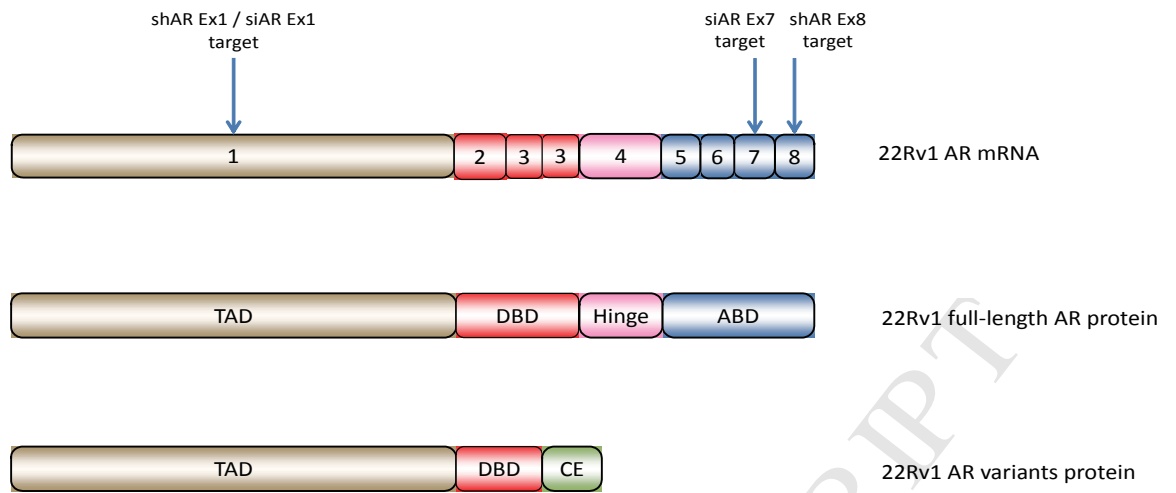
231832_at	-0.36592	0.00215	GALNT4	UDP-N-ac	NM_003774
221808_at	0.365609	0.00217	RAB9A	RAB9A, m	NM_004251
209966_x_	-0.36516	0.0022	ESRRG	estrogen-r	NM_001134285 /// NM_001438 /// NM_206594 /// NM_206595 /// NR
201615_x_	-0.36383	0.002289	CALD1	caldesmon	NM_004342 /// NM_033138 /// NM_033139 /// NM_033140 /// NM_03
201931_at	0.36155	0.002451	ETFA	electron-tr	NM_000126 /// NM_001127716
230815_at	-0.35943	0.00261	LOC38976	similar to K	XR_078414 /// XR_079065 /// XR_079253
200594_x_	0.359361	0.002615	HNRNPU	heterogene	NM_004501 /// NM_031844
228257_at	0.358491	0.002684	ANKRD52	ankyrin rep	NM_173595
221156_x_	-0.35409	0.003053	CCPG1	cell cycle p	NM_004748 /// NM_020739
215728_s_	-0.35305	0.003147	ACOT7	acyl-CoA t	NM_007274 /// NM_181864 /// NM_181865 /// NM_181866
209227_at	-0.34746	0.003695	TUSC3	tumor sup	NM_006765 /// NM_178234
204745_x_	-0.34509	0.003951	MT1G	metallothio	NM_005950
212994_at	-0.34342	0.004142	THOC2	THO comp	NM_001081550 /// NM_020449
200983_x_	0.341971	0.004314	CD59	CD59 mole	NM_000611 /// NM_001127223 /// NM_001127225 /// NM_00112722
224090_s_	-0.33999	0.004558	TNFRSF1	tumor necr	NM_018647 /// NM_148957
221511_x_	-0.33628	0.005051	CCPG1	cell cycle p	NM_004748 /// NM_020739
228938_at	-0.33604	0.005085	MBP	Myelin basi	NM_001025081 /// NM_001025090 /// NM_001025092 /// NM_00102
203725_at	0.334261	0.005338	GADD45A	growth arre	NM_001924
213988_s_	0.333364	0.00547	SAT1	spermidine	NM_002970 /// NR_027783
226599_at	0.331916	0.005689	FHDC1	FH2 domai	NM_033393
206461_x_	-0.33045	0.00592	MT1H	metallothio	NM_005951
234072_at	-0.3289	0.006172	SEMA4A	sema dom	NM_022367
212859_x_	-0.3288	0.006189	MT1E	metallothio	NM_175617
224232_s_	0.326858	0.006518	PRELID1	PRELI dor	NM_013237
201132_at	0.326246	0.006625	HNRNPH2	heterogene	NM_001032393 /// NM_019597
207323_s_	-0.3258	0.006704	MBP	myelin basi	NM_001025081 /// NM_001025090 /// NM_001025092 /// NM_00102
200972_at	0.325715	0.006719	TSPAN3	tetraspanin	NM_005724 /// NM_198902
226442_at	-0.32457	0.006925	ABTB1	ankyrin rep	NM_032548 /// NM_172027 /// NM_172028
205184_at	-0.32345	0.007134	GNG4	guanine nu	NM_001098721 /// NM_001098722 /// NM_004485
1561365_a	0.323329	0.007157	NRP1	Neuropilin	NM_001024628 /// NM_001024629 /// NM_003873
204347_at	-0.31974	0.007862	AK3L1	adenylate	NM_001005353 /// NM_013410 /// NM_203464
1554757_a	-0.31717	0.008404	INPP5A	inositol pol	NM_005539
201778_s_	0.316558	0.008538	KIAA0494	KIAA0494	NM_014774
237989_at	-0.31648	0.008556	IGFBP1	Insulin-like	NM_000596
1554448_a	-0.3117	0.009667	LOC55420	alanyl-tRN	NR_024582
220374_at	-0.30905	0.010336	KLHL28	kelch-like 2	NM_017658
226628_at	-0.30782	0.010661	THOC2	THO comp	NM_001081550 /// NM_020449
205737_at	-0.30716	0.01084	KCNQ2	potassium	NM_004518 /// NM_172106 /// NM_172107 /// NM_172108 /// NM_17
225395_s_	0.300547	0.012764	FAM120AC	family with	NM_198841
203455_s_	0.299571	0.013072	SAT1	spermidine	NM_002970 /// NR_027783
204348_s_	-0.29896	0.013269	AK3L1	adenylate	NM_001005353 /// NM_013410 /// NM_203464
225342_at	-0.29822	0.013508	AK3L1	adenylate	NM_001005353 /// NM_013410 /// NM_203464
215198_s_	-0.298	0.013581	CALD1	caldesmon	NM_004342 /// NM_033138 /// NM_033139 /// NM_033140 /// NM_03
201564_s_	0.296958	0.013928	FSCN1	fascin hom	NM_003088
225092_at	-0.29688	0.013955	RABEP1	rabaptin, R	NM_001083585 /// NM_004703
218256_s_	0.295163	0.014543	NUP54	nucleoporin	NM_017426
234459_at	-0.29433	0.014838	PPHLN1	periphilin 1	NM_001143787 /// NM_001143788 /// NM_001143789 /// NM_01648
244819_x_	-0.29259	0.015465	PSPH	phosphose	NM_004577
218218_at	0.291981	0.015692	APPL2	adaptor pr	NM_018171
221269_s_	0.290411	0.016287	SH3BGR1	SH3 domai	NM_031286
214076_at	-0.28845	0.017056	GFOD2	glucose-fru	NM_030819 /// NR_027398 /// NR_027399
1007_s_at	0.288432	0.017065	DDR1	discoidin d	NM_001954 /// NM_013993 /// NM_013994
234495_at	-0.28784	0.017303	KLK15	kallikrein-r	NM_017509 /// NM_138563 /// NM_138564
41644_at	-0.2878	0.01732	SASH1	SAM and S	NM_015278
1555765_a	-0.28684	0.017713	GNG4	guanine nu	NM_001098721 /// NM_001098722 /// NM_004485
204389_at	0.286311	0.017933	MAOA	monoamin	NM_000240
238440_at	-0.28558	0.018243	CLYBL	citrate lyas	NM_206808
209043_at	-0.28321	0.019271	PAPSS1	3'-phospho	NM_005443
204388_s_	0.28315	0.019298	MAOA	monoamin	NM_000240
221766_s_	0.282783	0.019462	FAM46A	family with	NM_017633
223518_at	0.281947	0.01984	DFFA	DNA fragm	NM_004401 /// NM_213566
219356_s_	0.281906	0.019859	CHMP5	chromatin	NM_016410

Supplementary Table S7 Clinical characteristics for patients which follow-up is available

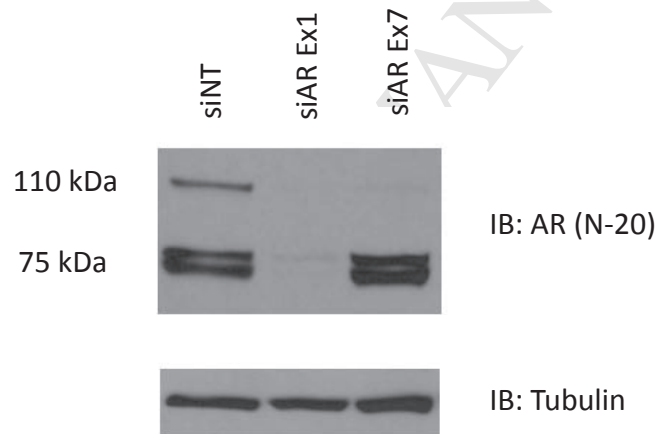
	No PSA Fail (n=41)	PSA Fail (n=15)	Total (n=56)	p value
<b>Age</b>				0.6701
Mean (SD)	61.8 (7.56)	60.5 (8.05)	61.4 (7.64)	
Median	62.0	62.0	62.0	
Q1, Q3	57.0, 68.0	50.0, 68.0	56.5, 68.0	
Range	47.0-74.0	48.0-71.0	47.0-74.0	
<b>Fail or follow-up (months)</b>				< 0.0001
Mean (SD)	51.6 (17.49)	17.6 (13.88)	42.5 (22.42)	
Median	49.1	14.1	45.2	
Q1, Q3	43.6, 61.6	5.9, 23.0	25.5, 55.7	
Range	0.6-91.5	3.6-45.8	0.6-91.5	
<b>Gleason score</b>				0.0710
6	20 (48.8%)	4 (26.7%)	24 (42.9%)	
7	14 (34.1%)	4 (26.7%)	18 (32.1%)	
8-10	7 (17.1%)	7 (46.7%)	14 (25%)	
<b>Gleason Pattern</b>				0.0353
GP3	25 (61%)	4 (26.7%)	29 (51.8%)	
GP4	12 (29.3%)	6 (40%)	18 (32.1%)	
GP5	4 (9.8%)	5 (33.3%)	9 (16.1%)	
<b>Stage (pTNM)</b>				0.0636
T2	30 (73.2%)	7 (46.7%)	37 (66.1%)	
T3	11 (26.8%)	8 (53.3%)	19 (33.9%)	

Probe Set	HRatio(ger	LowCI(gen	UpCI(gene	p-value(ge	Symbol
209966_x_	0.485719	0.319565	0.738263	0.000723	ESRRG
210136_at	0.547273	0.373804	0.801241	0.00194	MBP
235591_at	1.41324	1.11931	1.78437	0.003644	SSTR1
227962_at	0.254348	0.094822	0.682259	0.006538	ACOX1
238063_at	2.203	1.23038	3.94445	0.007869	TMEM154
201830_s_	4.82693	1.45045	16.0635	0.010282	NET1
225407_at	0.364757	0.167045	0.796478	0.011371	MBP
217816_s_	30.4823	2.10568	441.269	0.012207	PCNP
1564010_a	10.6992	1.65287	69.2566	0.01287	CAST
203266_s_	0.265341	0.091261	0.771483	0.014833	MAP2K4
210095_s_	1.60194	1.09171	2.35063	0.016019	IGFBP3
227787_s_	2.49346	1.17427	5.29466	0.017401	MED30
202669_s_	0.687256	0.500259	0.944153	0.020631	EFNB2
219197_s_	1.23648	1.03185	1.48168	0.021463	SCUBE2
201581_at	0.151552	0.029352	0.782498	0.024269	TMX4
213786_at	4.54925	1.1808	17.5268	0.0277	TAX1BP1
209043_at	0.265622	0.081281	0.868034	0.028218	PAPSS1
213102_at	5.01589	1.18734	21.1896	0.028266	ACTR3
1554685_a	0.001775	5.97E-06	0.527409	0.029242	KIAA1199
207981_s_	0.623612	0.407665	0.953951	0.029453	ESRRG
207323_s_	0.074424	0.007144	0.775285	0.02979	MBP
225092_at	0.370252	0.149991	0.913965	0.031151	RABEP1
203455_s_	22.7502	1.29699	399.056	0.032522	SAT1
210091_s_	0.064413	0.005174	0.801939	0.033043	DTNA
219690_at	0.349506	0.132852	0.919479	0.033163	TMEM149
215716_s_	2.44695	1.06235	5.63616	0.035546	ATP2B1
1566513_a	0.00255	9.28E-06	0.700641	0.037145	GNG4
223518_at	3.25123	1.0589	9.9825	0.039399	DFFA
227786_at	2.82925	1.04167	7.68445	0.041342	MED30
208289_s_	10.8024	1.07809	108.238	0.042976	EI24
213988_s_	2.71771	1.02911	7.17701	0.0436	SAT1
207357_s_	0.447834	0.202306	0.991345	0.047542	GALNT10
210510_s_	1.32176	1.00291	1.74196	0.047629	NRP1
209264_s_	15.8926	1.01819	248.063	0.048512	TSPAN4

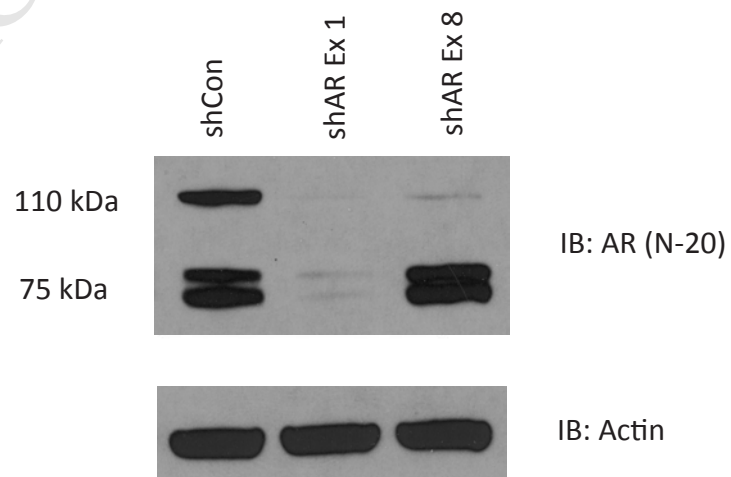
A

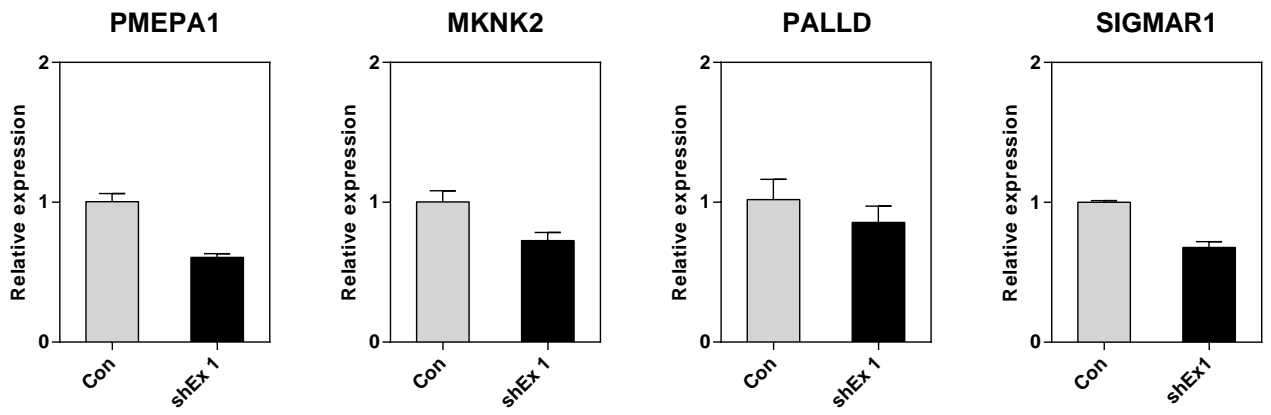


B



C



**A****B**