Supplement Table 2. 104 isoform biomakers for prostate cancer

Up-regulated isoforms in prostate cancer			
Isoform ID	Identifier Sequence[a]	Protein Name/function	p-value[b]
AMACR-2094	gacttggactaaagtctgatgaacttcccaatcagatgagcatggatgat	Alpha-methylacyl-CoA racemase	1.12E-10
AMACR-2097	aagcttctgccggttagctggccacgatatcaactatttggctttgtcag		6.06E-09
AMACR-2098	tttttgaccgcacacgcactggcaagggtcaggtcattgatgcaaatatg		2.12E-08
AMACR-2095	gtctgggagaactgatcttgctgaaaatacaacaggaagcagtatcgtgc		2.69E-08
PYCR1-0058	ggattccccaacctcaacctcctttcttctctgctcccaaaccatgtcag	Pyrroline-5-carboxylate reductase 1	8.58E-10
MYO6-0041	aaaatgacaccggaacaaatggccaaagaaatgtcagaatttttgagtag	Myosin VI	1.15E-08
SMPDL3B-2030	gacatggtgacctacttcatgaacctgagccaggcgaatgctcaggggac	Sphingomyelin phosphodiesterase, acid-like 3B	2.32E-08
NOX4-1355	tgtcctggaggagctggctcgccaacgaaggggttaaacacctctgcctg	NADPH oxidase 4	1.57E-07
FASN-1435	gctgtcctgaagcgtggcctgaagccgagctgcaccatcatcccccctgat	Fatty acid synthase	4.42E-07
FASN-1432	aggcctggccgtgcagtggggcgccatcggcgacgtgggcattttggtgg		1.65E-06
FASN-1433	gcctggccgtgcagtggggcgccatcggcgacgtgggcattttggtggag		4.78E-05
CACNA1D-2040	tcaagccatctcaaaatccaaactcagccgacgctggcgtcgctggaacc	Voltage-dep.L-type calcium channel alpha-1D subunit	6.22E-07
CACNA1D-2039	atgaatgatgctatgggatttgaattgccctgggtgtattttgtcagtct		3.32E-06
FBP1-0807	atctacagccttaacgagggctacgccagggactttgacccctgccgtcac	Fructose-1,6-bisphosphatase 1	1.48E-06
IMPDH2-0144	accacaactgtacacctgaattccaggccaatgaagttcggaaagtgaag	Inosine-5-monophosphate dehydrogenase 2	8.36E-06
IMPDH2-0145	tgccctgcgggtgggcatgggaagtggctccatctgcattacgcaggaag		1.88E-05
ABCC4-2013	ctcactggattgtcttcattttccttattctcctaaacactgcagctcag	Multidrug resistance-associated protein 4	1.09E-05
CLN3-1132	cctctgttggaccatcagggcgcgcattggaagaacgcggtgggcttctg	Ceroid-lipofuscinosis, neuronal 3, juvenile	1.50E-05
GART-0310	ctcttttgaaaaaaaaaaggccagagtggctgtcttaatatctggaacag	Phosphoribosylglycinamide formyltransferase	1.57E-05
GART-0307	gagtttgacttacaaggaatctggagtagatatcgcagctggaaatatgc		0.010894
DHPS-2028	acctgaggctcatcaacacacaggccatctttgccaagtgcactgggatg	Deoxyhypusine synthase	1.68E-05
BIRC5-0847	ttcttctgcttcaaggagctggaaggctgggagccagatgacgaccccat	Baculoviral IAP repeat-containing 5 (survivin)	1.73E-05
REPS2-0732	gaaacacagtctcccacgatgtcacccctcgcctcccctcctttcccc	RALBP1 associated Eps domain containing 2	2.18E-05
REPS2-0733	caggaaacacagtctcccacgatgtcacccctcgcctcccctccttcttc		2.89E-05
RPS2-0809	ttatgccagtgcagaagcagacccgtgccggccagcgcaccaggttcaag	40S Ribosomal protein S2	0.051607
TMSNB-0227	attggtgcatatgttccagatggcagatgctgtcaataatctcaccattg	Thymosin, beta, identified in neuroblastoma cells	2.34E-05
EPB41-1096	aaacccacatcgaggtgacagtacccacctcaaatggtgaccaaacacag	Erythrocyte membrane protein band 4.1	2.69E-05
EPB41-1092	tccctattgtccacactgagaccaagaccatcacttatgaggctgcccag		0.018181
GCNT1-0981	gatgagggcgcctgcagatcccggctagggcacggaccgcctaggccgag	Core 2 beta-1,6-N-acetylglucosaminyltransferase I	8.15E-05
GCNT1-0982	aatactatgtgtccatatatcccttgtcacattgtttttttaatttcacag		0.000114
GCNT1-0985	atgtgtccatatatcccttgtcacattgtttttttaatttcacagatttct		0.000558
LYPLA1-0862	gcctttgcaggtatcagaagttcacatatcaaatatatctgcccgcatgc	Lysophospholipase I	0.000112
LYPLA1-0860	accagattcacaggaggatgaatctgggattaaacaggcagcagaaaata		0.006744
RET-0252	gtaatggactcacaaggggaagaaacatgctgagaatggaaagtctaccg	Proto-oncogene tyrosine-protein kinase receptor ret	0.000136
RET-0250	gtagaatttcccatgcatttactagattctagcaccgctgtccccttttgc		0.008659
HSPD1-0152	cacgccttgccgccgccccgcag	Heat shock 60kDa protein 1 (chaperonin)	0.000615
HSPD1-0154	atttctagtatccagtccattgtacctgctcttgaaattgccaatgctca		0.033554
MAPT-1060	tggagacacccccagcctggaagacgaagctgctggtcacgtgacccaag	Microtubule-associated protein tau	0.000885
C7ORF24-0062	gcaagaagggttaaaagtggaatgtatgttgtaatagaagttaaagttg	Chromosome 7 open reading frame 24	0.001028
ERBB3-1431	cctgtgagggaacaggctctgggagccgcttccagactgtggactcgagc	Receptor protein-tyrosine kinase erbB-3	0.001238
PLA2G2A-1380	aatgatcaagttgacgacaggaaaggaagccgcactcagttatggcttct	Phospholipase A2, group IIA	0.001569
NME1-0827	ttcgggtgctggcggctgcagcccggagttcaaacctaagcagctggaagg	Nucleoside diphosphate kinase A	0.001945
CDK7-0899	atcaaacttggacatagatcagaagctaaagatggtataaatagaaccgc	Cyclin-dependent kinase 7	0.002319
MMP9-1185	ggcgcaggtgtgggtgtacacaggcgcgtcggtgctgggcccgaggcgt	Matrix metalloproteinase 9	0.002620
BGN-1274	gctgggcctaggccacaaccagatcaggatgatcgagaacgggagcctga	Biglycan	0.002956
PPIB-0969	gaccttctgcggccgatgagaagaagaagggcccaaagtcaccgtcaag	Peptidylprolyl isomerase B (cyclophilin B)	0.006963
IQGAP2-0234	tcagaattgtattgatatggttaatgctcaaattcaagaagaaaatgacc	IQ motif containing GTPase activating protein 2	0.010253
DKFZP564B167-0717	ggtttatttggtcaagatactcacttgtaattattccaaaaaattggagt	DKFZP564B167 protein	0.015526
TMEPAI-2074	ctcctgcacgtgcaactgcaaacgctctttgttccagagcatggagatca	Transmembrane prostate androgen-induced protein	0.023696

Down-regulated isoforms in prostate cancer			
Isoform ID	Identifier Sequence[a]	Protein Name/function	p-value[b]
STAC-1045	ctccagaaactaaaacgatcactttctttcaagaccaagagtttacggag	Src homology three (SH3) and cysteine rich domain	5.21E-10
STAC-1044	accaagagtttacggagcaaaagtgctgacaacttcttccagcgaaccaa		4.35E-08
STAC-1047	cttgctcattcatgaacagtttggctgcattaaagaagttatgccccattg		4.42E-07
FGFR2-0101	gaatacttggacctcagtcagcctctcgaaccgtattcaccttgttatcc	Fibroblast growth factor receptor 2	7.12E-09
FGFR2-0095	taattctattgggatatcctttcactctgcatggttgacagttctgccag		1.42E-07
FGFR2-0100	gaatacttggacctcagccaacctctcgaacagtattcacctagttaccc		2.82E-07
FGFR2-0106	gagcaccatactggaccaacacagaaaagatggaaaagcggctccatgct		6.31E-07
FGFR2-0107	agccaccaaccaaatacccaaatctctcaaccagaagtgtacgtggctgcg		1.05E-06
FGFR2-0097	gccagccggctgtgcacaagctgaccaaacgtatcccctgcggagacag		1.30E-05
CDC42BPA-1051	ccaggtttccctatccatcccctcatcatcactccggtctgatctcctc	CDC42 binding protein kinase alpha (DMPK-like)	1.56E-08
KRT15-1335	gcagagcggggaggttcccccactctaaagcctactccttctctctctag	Keratin 15	2.25E-08
KRT15-1333	atcatggccaccaccatcgacaactcccgggtcatcctggagatcgacaa		2.68E-07
KRT15-1334	cctgctcgagggccaggatgccaagatggctggcattgccatcagggaag		1.60E-06
KRT15-1341	aaattaccatgcagaacctcaatgaccgcctggcctcctacctggacaag		0.001433
TRIM29-1353	tggaaggcaagaggtcgccgtacgcagggctccagctgggggctgccaag	Tripartite motif-containing 29	5.04E-08
TRIM29-1348	gagtgcaccggacaccatgaagagatactccatgtacctgacacccaaag		6.57E-08
TRIM29-1346	tgacaatgacctgcccgtcgtccaaggcagctcctcctctctccctgaaag		4.38E-06
BC008967-0877	cagcgtctccgggaagtcttggtccgccgggagtctgagctcaggttcat	Hypothetical gene BC008967	5.85E-08
BC008967-0875	ctatggggcggtggaggagacggcttggaaaacggagagactggggagaa		5.85E-05
CES1-0942	cagttgatgagctatccactctccgaagggcaactggaccagaagacagc	Carboxylesterase 1	8.07E-08
CES1-0937	ggcatccgtcctcgccacctgtggtggacaccgtgcatggcaaagtgctg		1.43E-05
CLU-0196	tggcaaacctcacgcaaggcgaagaccagtactatctgcgggtcaccacg	Clusterin	1.86E-07
CLU-0192	gtgtgaagggctggctgctgttgcctccggctcttgaagtcaagttcag		5.97E-07
CLU-0191	gccaggaggagcgcgcgggcacagggtgccgctgaccg		0.000272
ALDH1A2-0004	ttcagttgtgcctcttcctctctaacag	Aldehyde dehydrogenase 1A2	1.88E-07
ALDH1A2-0001	tctggaacttggaggcaaaagtcctaatattatttttgctgatgctgact		0.000266
ALDH1A2-0006	tagcttctcacattggcatagacaagattgcattcacagggtctactgag		0.000283
DRR1-0753	ccgccatgtactcggagatccagagggagcgggcagacattgggggcctg	Collagen and Wnt5a regulated receptor tyrosin kinase	1.88E-07
ROBO1-1419	tgcggagcccgctcacttttacctgtttggattaatatgtctctgttcag	Roundabout, axon guidance receptor, homolog 1	2.26E-07
LTBP4-0752	atgtggatgagtgccaagaatatggtcccgagatttgtggagcccagcgt	Latent TGF-beta binding protein 4	1.65E-06
LTBP4-0747	tacttgtgcccctggctaccgacccggaccccgcggagcctcttgcctcg		3.95E-06
LTBP4-0742	accagcctgtgacccctggctatcagcccacgccaggggcggatgccagg		5.36E-06
LTBP4-1519	gcatgttcccaggctcgcagcccccaggcacctgctagccccgttctgccc		9.69E-06
LTBP4-1518	ctcttccgagaccaggtgtgcaagagtggcgtgtgtgtgaacacggcccc		1.09E-05
LTBP4-0745	actactgagaaggaggcccccacagcgtgcccccgctggcaaggcccccgg		1.57E-05
LTBP4-0751	atgtggacgaatgccggaaccggtccttctgcggtgcccacgccgtgtgc		8.15E-05
LTBP4-0748	gttaggcggagcgggaggtgggccgggccttcggacgcccttcccgcag		0.000459
LTBP4-0746	cagcggcgctcccggcggggcggcccggggggacccggcttccgcgcct		0.002361
PGR-1161	aggcgagaggcaacttctttcagtagtcaagtggtctaaatcattgccag	Progesterone receptor	1.83E-06
PGR-1162	cccagcatgtcgccttagaaagtgctgtcaggctggcatggtccttggag		3.77E-06
EDNRB-1187	gagagatgccagtgacctcataataaagactgtgaactgcctggtgcagt	Endothelin receptor type B	1.88E-06
ANGPT1-1032	gctgatggacacagtccacaaccttgtcaatctttgcactaaagaaggtg	Angiopoietin 1	3.32E-06
ANGPT1-1031	ggagctgatggacacagtccacaaccttgtcaatctttgcactaaagaag		3.72E-05
IGF1-0025	cctgacctgctgtaaaagacctggaacaaacaaaaatgattacacctaca	Insulin-like growth factor 1 (somatomedin C)	3.77E-06
COL6A2-1489	tcccaggacccgagggtgagcccggcccccctggagaccccggtctcacg	Collagen, type VI, alpha 2	8.16E-06
PTGDS-0787	gactccccagggctgaagctgggatcccggccagccaggtgaccccacg	Prostaglandin D2 synthase 21kDa	1.09E-05
ANGPTL2-0950	gctttcatagattctattcacaaagaataaccaccattttgcaaggacca	Angiopoietin-related protein 2	1.20E-05
VCL-1534	ttcgtgtgttacaactcacctcttgggatgaagatgcctgggccagcaag	Vinculin	9.28E-05
VCL-0933	tcaccgcgcccgtggccgccgtgcaggcggccgtcagcaacctcgtccgg		0.000953
VCL-0936	ccgggcatcccagccgctgaggtgggtatagggtgttgtagctgaggcaga		0.011744
GSTP1-0927	aggtggtgaccgtggagacgtggcaggagggctcactcaaagcctcctgc	Glutathione S-transferase P	0.000591
GSTP1-0923	ggctctatgggaaggaccagcaggaggcagccctggtggacatggtgaat		0.030854
SAT-0840	gtaattcaacagtggcgggacgggggacaagcgttcggtgcctgtcacct	Spermidine/spermine N1-acetyltransferase	0.036290
SAT-0842	gagcctcattttgttttctactttttttctctcctatgtgcatccccccag		0.052888
TGFB2-0085	Ctgtctgcccagttgttacaacaccctctggctcagtgggcagcttgtgc	Transforming growth factor, beta 2	0.095398

[a]sequences for viewing specific isoforms in the Genome Browser; [b]p-value from Wilcoxon test