

Bladder cancer associated genes

601439 - ATP-BINDING CASSETTE, SUBFAMILY C, MEMBER 9
602192 - A DISINTEGRIN AND METALLOPROTEINASE DOMAIN 10
608464 - ANGIOGENIC FACTOR WITH G-PATCH AND FHA DOMAINS 1
610603 - AIK8 HOMOLOG 3, ALPHA-KETOGLUTARATE-DEPENDENT DIOXYGENASE
613306 - AIK8 HOMOLOG 8, tRNA METHYLTRANSFERASE
603243 - AUTOCRINE MOTILITY FACTOR RECEPTOR
611731 - APC GENE
600130 - APOLIPOPROTEIN B mRNA-EDITING ENZYME, CATALYTIC POLYPEPTIDE 1
607110 - APOLIPOPROTEIN B mRNA-EDITING ENZYME, CATALYTIC POLYPEPTIDE-LIKE 3B
612464 - ARRESTIN DOMAIN-CONTAINING 3
208900 - ATAXIA-TELANGIECTASIA
616226 - AUTOPHAGY 2, S. CEREVISIAE, HOMOLOG OF, B
607585 - ATAXIA-TELANGIECTASIA MUTATED GENE
603072 - AURORA KINASE A
605167 - B MELANOMA ANTIGEN
611564 - BTG3-ASSOCIATED NUCLEAR PROTEIN
603089 - BRCA1-ASSOCIATED PROTEIN 1
601593 - BRCA1-ASSOCIATED RING DOMAIN 1
613059 - BASAL CELL CARCINOMA, SUSCEPTIBILITY TO, 3
603352 - BACULOVIRAL IAP REPEAT-CONTAINING PROTEIN 5
615480 - BLADDER CANCER-ASSOCIATED TRANSCRIPT 1, NONCODING
613110 - BLADDER CANCER-ASSOCIATED PROTEIN
600082 - PROSTATIC HYPERPLASIA, BENIGN
164757 - B-RAF PROTOONCOGENE, SERINE/THREONINE KINASE
113705 - BREAST CANCER 1 GENE
602865 - BONE MORPHOGENETIC PROTEIN/RETINOIC ACID-INDUCIBLE NEURAL-SPECIFIC PROTEIN 1
130650 - BECKWITH-WIEDEMANN SYNDROME
600636 - CASPASE 3, APOPTOSIS-RELATED CYSTEINE PROTEASE
605402 - CD274 MOLECULE
600623 - CD82 ANTIGEN
192090 - CADHERIN 1
600160 - CYCLIN-DEPENDENT KINASE INHIBITOR 2A
604373 - CHECKPOINT KINASE 2
118503 - CHOLINERGIC RECEPTOR, NEURONAL NICOTINIC, ALPHA POLYPEPTIDE 3
610643 - CELL PROLIFERATION-REGULATING INHIBITOR OF PROTEIN PHOSPHATASE 2A
606815 - CBP/P300-INTERACTING TRANSACTIVATOR, WITH GLU/ASP-RICH CARBOXY TERMINAL DOMAIN, 4
611232 - CLAUDIN 12
611231 - CLAUDIN 8
616787 - CLUSTERIN-ASSOCIATED PROTEIN 1
615134 - MELANOMA, CUTANEOUS MALIGNANT, SUSCEPTIBILITY TO, 9
114500 - COLORECTAL CANCER
611312 - CORNULIN
157800 - CARDIOSPONDYLOCARPOFACIAL SYNDROME
138970 - COLONY-STIMULATING FACTOR 3
218040 - COSTELLO SYNDROME
300156 - CANCER/TESTIS ANTIGEN 1B
300396 - CANCER/TESTIS ANTIGEN 2
158350 - COWDEN SYNDROME 1
608759 - CYTOGLOBIN
124030 - CYTOCHROME P450, SUBFAMILY IID, POLYPEPTIDE 6
124075 - CYTOCHROME P450, SUBFAMILY IVB, MEMBER 1
600831 - DEATH-ASSOCIATED PROTEIN KINASE 1
120470 - DCC NETRIN 1 RECEPTOR
605755 - DOUBLECORTIN DOMAIN-CONTAINING PROTEIN 2
609631 - DEAD BOX POLYPEPTIDE 58
612002 - DEP DOMAIN-CONTAINING PROTEIN 1
305000 - DYSKERATOSIS CONGENITA, X-LINKED
126375 - DNA METHYLTRANSFERASE 1
613396 - DOWN SYNDROME CRITICAL REGION GENE 8
131244 - ENDOTHELIN RECEPTOR, TYPE B
190151 - ERB-B2 RECEPTOR TYROSINE KINASE 3
600543 - ERB-B2 RECEPTOR TYROSINE KINASE 4
133430 - ESTROGEN RECEPTOR 1
601663 - ESTROGEN RECEPTOR 2
600541 - ETS VARIANT GENE 1
611234 - FAMILY WITH SEQUENCE SIMILARITY 84, MEMBER A
175100 - FAMILIAL ADENOMATOUS POLYPOSIS 1
600212 - FATTY ACID SYNTHASE
176943 - FIBROBLAST GROWTH FACTOR RECEPTOR 2
134934 - FIBROBLAST GROWTH FACTOR RECEPTOR 3
136850 - FUMARATE HYDRATASE
617076 - FK506-BINDING PROTEIN-LIKE
605515 - FORKHEAD BOX P1
606829 - FRAXIN
606146 - FRIZZLED CLASS RECEPTOR 8
300594 - G ANTIGEN 1
300595 - G ANTIGEN 2C
137168 - GAMMA-GLUTAMYLTRANSFERASE 5
238300 - GLYCINE DECARBOXYLASE
138350 - GLUTATHIONE S-TRANSFERASE, MU-1
103280 - H19, IMPRINTED MATERNALLY EXPRESSED NONCODING TRANSCRIPT
609310 - COLORECTAL CANCER, HEREDITARY NONPOLYPOSIS, TYPE 2
190020 - HRAS PROTOONCOGENE, GTPase
147700 - ISOCITRATE DEHYDROGENASE 1
608289 - INSULIN-LIKE GROWTH FACTOR 2 mRNA-BINDING PROTEIN 2
146732 - INSULIN-LIKE GROWTH FACTOR-BINDING PROTEIN 3
146733 - INSULIN-LIKE GROWTH FACTOR-BINDING PROTEIN 4
600150 - POTASSIUM CHANNEL, CALCIUM-ACTIVATED, LARGE CONDUCTANCE, SUBFAMILY M, ALPHA MEMBER 1
190070 - KRAS PROTOONCOGENE, GTPase
608802 - L3MBT-LIKE
617986 - LOW DENSITY LIPOPROTEIN RECEPTOR CLASS A DOMAIN-CONTAINING PROTEIN 3
151623 - LI-FRAUMENI SYNDROME
604543 - LIM DOMAIN-CONTAINING PROTEIN 1
607908 - LIM AND SENESCENT CELL ANTIGEN-LIKE DOMAINS 2
618335 - LONG INTERGENIC NONCODING RNA 958
612571 - LUNG CANCER SUSCEPTIBILITY 3
608766 - LOW DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1B
604710 - LATENT TRANSFORMING GROWTH FACTOR-BETA-BINDING PROTEIN 4
606551 - LEUCINE ZIPPER, PUTATIVE TUMOR SUPPRESSOR 1
300468 - MELANOMA ANTIGEN, FAMILY C, 2
300469 - MELANOMA ANTIGEN, FAMILY C, 3
606048 - MEMBRANE-BOUND O-ACETYLTRANSFERASE DOMAIN-CONTAINING PROTEIN 7
611802 - MIGRATION AND INVASION ENHANCER 1
610104 - MICRO RNA 125B1
610105 - MICRO RNA 125B2
612117 - MICRO RNA 143
611795 - MICRO RNA 145
611020 - MICRO RNA 21
614597 - MICRO RNA 302B
615469 - MICRO RNA 574
607303 - MORTALITY FACTOR 4-LIKE PROTEIN 1
616905 - MORF4 FAMILY-ASSOCIATED PROTEIN 1
516020 - CYTOCHROME b OF COMPLEX III
608486 - METASTASIS SUPPRESSOR 1
257300 - MOSAIC VARIEGATED ANEUPLOIDY SYNDROME 1
160745 - MYOSIN, HEAVY CHAIN 11, SMOOTH MUSCLE
108345 - N-ACETYLTRANSFERASE 1
612182 - N-ACETYLTRANSFERASE 2
609752 - NUCLEAR RECEPTOR COACTIVATOR 7
607272 - NDC80, S. CEREVISIAE, HOMOLOG OF
606073 - NADPH-DEPENDENT DIFLAVIN OXIDOREDUCTASE 1
162200 - NEUROFIBROMATOSIS, TYPE I
602157 - NEUROONCOLOGIC VENTRAL ANTIGEN 1
610894 - NEUREGULIN 4
602656 - ENDONUCLEASE III-LIKE 1
614843 - ODONTOGENIC AMELOBLAST-ASSOCIATED PROTEIN
300287 - P ANTIGEN FAMILY, MEMBER 4
617688 - PROSTATE ANDROGEN-REGULATED MUCIN-LIKE PROTEIN 1
605669 - PROSTATE AND BREAST CANCER OVEREXPRESSED 1
168600 - PARKINSON DISEASE, LATE-ONSET
608610 - PROGRAMMED CELL DEATH 4
609673 - PLATELET-DERIVED GROWTH FACTOR D
610789 - p53 AND DNA DAMAGE-REGULATED 1
115310 - PARAGANGLIOMAS 4
608528 - PHOSPHATIDYLINOSITOL GLYCAN ANCHOR BIOSYNTHESIS CLASS U PROTEIN
609414 - PHOSPHOINOSITIDE KINASE, FYVE FINGER-CONTAINING
175200 - PEUTZ-JEGHERS SYNDROME
179050 - PYRUVATE KINASE, MUSCLE
600259 - PMS1 HOMOLOG 2, MISMATCH REPAIR SYSTEM COMPONENT
607463 - PROTEIN PHOSPHATASE 1, REGULATORY SUBUNIT 13-LIKE
617373 - PROLINE-RICH COILED-COIL PROTEIN 2C
605172 - PROSTAGLANDIN E SYNTHASE
179590 - PROTEIN-TYROSINE PHOSPHATASE, RECEPTOR-TYPE, F
602505 - PAXILLIN
617889 - PYRIDINE NUCLEOTIDE-DISULPHIDE OXIDOREDUCTASE DOMAIN-CONTAINING PROTEIN 2
612403 - RAS-LIKE, FAMILY 11, MEMBER A
614041 - RB TRANSCRIPTIONAL COREPRESSOR 1
144700 - RENAL CELL CARCINOMA, NONPAPILLARY
164761 - REARRANGED DURING TRANSFECTION PROTOONCOGENE
612659 - REGULATORY FACTOR X, 6
603894 - REGULATOR OF G PROTEIN SIGNALING 6
615177 - RING FINGER PROTEIN 126
300359 - SARCOMA ANTIGEN 1
611306 - SCAVENGER RECEPTOR CLASS A, MEMBER 5
185470 - SUCCINATE DEHYDROGENASE COMPLEX, SUBUNIT B, IRON SULFUR PROTEIN
614549 - SERINE INCORPORATOR 2
602104 - SH3 DOMAIN-BINDING PROTEIN 2
600725 - SONIC HEDGEHOG SIGNALING MOLECULE
300330 - SPANX FAMILY, MEMBER C
602783 - SPG7 GENE
180860 - SILVER-RUSSELL SYNDROME
617108 - SESSILE SERRATED POLYPOSIS CANCER SYNDROME
604328 - STRUCTURE-SPECIFIC RECOGNITION PROTEIN 1
300826 - STROMAL ANTIGEN 2
604415 - STEAP FAMILY MEMBER 1
614766 - STRIATIN, CALMODULIN-BINDING PROTEIN 3
605303 - TRANSFORMING, ACIDIC, COILED-COIL-CONTAINING PROTEIN 3
612654 - TRICHOPLEIN
187270 - TELOMERASE REVERSE TRANSCRIPTASE
190000 - TRANSFERRIN
615466 - TALIN ROD DOMAIN-CONTAINING PROTEIN 1
603031 - TOLL-LIKE RECEPTOR 5
604657 - TRANSMEMBRANE 4 SUPERFAMILY, MEMBER 5
611029 - TRANSMEMBRANE PROTEIN 30B
616438 - TUMOR NECROSIS FACTOR-ALPHA-INDUCED PROTEIN 8-LIKE 3
191170 - TUMOR PROTEIN p53
603273 - TUMOR PROTEIN p63
614327 - TUMOR PREDISPOSITION SYNDROME
602076 - TUMOR RECEPTOR POTENTIAL CATION CHANNEL, SUBFAMILY V, MEMBER 1
605284 - TSC1 GENE
610932 - TWINFILIN, DROSOPHILA, HOMOLOG OF, 1
605046 - UBIQUILIN 1
617500 - UROTHELIAL CANCER-ASSOCIATED GENE 1
189909 - ZINC FINGER E BOX-BINDING HOMEBOX 1
618033 - ZINC FINGER PROTEIN 689
616186 - H19/IGF2-IMPRINTING CONTROL REGION

Modules of bladder cancer network

Cluster	Score	Density*#Nodes	Nodes	Edges	Node IDs
1	2.78	60	83	TUBB, IL6ST, TAF1C, CD19, TAF1B, SMN2, KIAA1549, BRAF, SMN1, BRCA2, TAF1A, TP53, H2AFX, TP73, CEBPA, DNMT3B, TUBA4A, DNMT1, MAP2K6, WRN, WT1, TRAF6, ATF1, SOS1, JAK1, MVA1, HCLS1, SPI1, SPIB, MARK4, MRAS, RAP1A, KAT2B, SUMO1, RASA1, UBTG, GAB1, RUNX2, TSG101, CTNND1, PRMT1, SYK, CABLES2, RACK1, NPM1, HIPK2, CDC20, TMX2-CTNND1, ZBTB16, NCL, FRS2, CABLES1, VAV2, ANAPC7, MAP4K1, PTPRM, SIN3A, MDC1, TRAF3IP2, ATF2	
2	3.837	50	125	CRKL, ESRRA, ITGB2, PXN, TOP2A, CEBPD, DNMT3A, BTK, EZH2, SH3KBP1, CASP2, NCOA1, TRIP6, HDAC2, NEDD9, XRCC5, CASP7, THRB, RARA, YY1, CTBP1, PAK3, POU2F1, PARP1, ARHGEF7, XRCC6, CBLB, ATR, CCNA1, DHX9, EED, PPARGC1A, PIAS3, RELA, GIT2, NR3C1, BARD1, RFC1, EP300, KPNB1, CCND1, KPNA2, CHEK2, ID2, NR2F6, PPP2CA, AR, PRKCB, MEF2A, PRKCE	
3	6.844	46	179	CRK, LAT, GRB7, MET, ESR2, PTK2B, AXL, COPS6, PLCG1, COPS5, RET, SMAD2, COPS7A, VAV1, MUC1, COPS8, SP1, COPS3, PDGFRB, HDAC1, SH3BP2, IRS2, JAK2, HNF4A, FOXO3, NCOA3, AKT1, CEACAM1, JUN, PAK1, FYN, ZAP70, ERBB3, COPS4, GPS1, COPS2, TRIP4, CTNBN1, PIK3R1, GTF2B, EGFR, PIK3R2, SRC, PTK2, TNFRSF1A, PRKCA	
4	4.045	45	114	PRKCQ, MYOD1, INSR, BCAR1, CCNB1, ARNT, SUV39H1, MAP3K14, IGF1R, LYN, PTPN1, STAT5A, CEBPB, CSF3R, FGFR1, TRAF1, CSK, TAF1, NCOR1, GADD45G, DOK1, PML, NCOR2, FHL2, RAD51, LCK, ABL1, FOXO4, RPS6KA5, AKT2, CFLAR, MYC, FOXO1, HDAC3, GADD45B, DAXX, CAV1, CREBBP, NCOA2, NMI, EGR1, ERBB4, RBBP4, MDM2, KAT5	
5	2.848	34	72	NFYB, MAP3K5, SREBF2, PRKDC, MAPK3, ESR1, TNFRSF14, MAPK1, TRIM28, ISL1, USF1, SNCG, ITGB3BP, TRIM24, RPA1, ATF3, SMAD1, EIF2AK2, TAF10, XPA, GNAI1, AOV2, HOXC8, RAN, UBE2I, STRN, DAPK1, PEBP1, RLIM, TBP, LDB1, IKBKB, NFKB1, NFYA	
6	2.7	21	35	PIK3R3, MCM4, CHUK, PLA2G4A, THRA, ARID3A, E2F1, MAPK14, MAPK8, IRS1, E2F4, YWHAB, CDK2, MAPK9, MAPK8IP1, YWHAH, TSC2, CREB1, RB1, CDK7, TSC1	
7	2.111	19	34	APEX1, YBX1, PSEN2, CAD, POLB, MSN, BCL2L1, TOP1, CASP6, PCNA, NEK2, PPP1CA, CASP10, HIP1, TGFBR1, APAF1, CDK6, BAK1, BCAP31	
8	2.111	19	33	USP7, CSNK2B, CCND2, NR4A1, PAK4, NEFL, BID, RAP1GAP, YWHAG, CDK5, PRKACA, YWHAZ, FOS, APC, MDM4, CDC25B, CDH1, PSEN1, CDKN1A	
9	2.133	16	27	SMAD7, HSPD1, PPP2R1A, PKD1, AXIN1, MAGI2, TRADD, BCL10, BTRC, JUP, DLG4, FN1, ITGA3, CTNND2, ERBIN, GNA12	
10	2.308	14	25	CSCF, XIAP, CASP9, RAF1, BCL2, AATF, LIMK1, EZR, MAPT, ROCK1, CHEK1, RPS6KA3, CDC25A, PIN1	
11	2	12	21	SRF, CDK1, CDC42, GSK3A, RPS6KB1, MAPKAPK2, IRAK1, PRKCZ, RAC1, MTOR, RPS6KA1, MCL1	
12	4.6	11	32	SHC1, STAT1, ERBB2, PTPN6, STAT5B, GRB2, PTPN11, SMAD3, SMAD4, BRCA1, CBL	
13	2.5	9	17	SMARCB1, SMARCA4, AHR, STAT3, PJS, XPO1, HSP90AA1, PTGES3, NOS3	
14	2	9	16	GRIN1, GRIN2D, GRIPAP1, CASP3, ATN1, IL16, STK4, VIM, GORASP1	
15	3.143	8	14	NDC80, MAD2L1, AURKB, BIRC5, INCENP, CDCA8, CDC27, CDC16	
16	2.667	4	7	CALR, LRP1B, SERPINE1, PLAT	
17	2.667	4	5	KAT7, CASP8, CDK11B, CDK11A	
18	2.667	4	4	RALGDS, HRAS, KRAS, RASSF2	
19	3.333	4	5	HLA-DMA, HLA-DRA, HLA-DMB, CD63	
20	2.667	4	6	ATM, FANCD2, RBBP8, MRE11	
21	2	4	6	PGR, MSX1, PIAS1, PRMT2	
22	4	4	9	PPFIA2, PPFIA3, PPFIA1, PTPRD	
23	2.667	4	6	TLN1, VCL, ACTA1, S100A4	
24	2	3	4	MAP2K1, DIABLO, BIRC6	
25	2	3	4	STRAP, SUMO4, NFKBIA	
26	3	3	4	CMM9, SMG6, SMG5	
27	3	3	3	A1CF, APOBEC1, CELF2	
28	2	3	4	WEE1, CCNT1, SKP2	
29	3	3	4	KCNJ8, ABCC9, KCNJ11	
30	2	2	3	PTPRA, PTPRF	
31	2	2	3	CSNK1E, LOC400927-CSNK1E	
32	2	2	3	HSP90AB1, MAP3K3	
33	2	2	3	ITGB7, ITGA4	
34	2	2	3	PLCG2, TEC	
35	2	2	3	CD44, NF2	
36	2	2	3	EIF4B, PABPC1	
37	2	2	3	ITGB1, NME1	
38	2	2	3	BMPR2, TOPBP1	