Appendix 2 Specific patterns

Appendix 2.1 – Specific genes for breast cancer.

Gene	Gene_Symbol	*pvalue*_adjust	log_2(Foldchange)
APOB|338	APOB	4.75E-26	-1.71651
C17orf64|124773	C17orf64	6.40E-14	-1.51429
C1orf230|284485	C1orf230	2.41E-12	2.236132
C20orf85|128602	C20orf85	0.005108	2.214147
CCL1|6346	CCL1	0.000421	1.984998
CCL7|6354	CCL7	1.54E-08	1.895776
CDK5R2|8941	CDK5R2	2.44E-05	1.650237
CLDN25|644672	CLDN25	2.65E-10	3.035763
CLDN6|9074	CLDN6	1.78E-07	1.51539
CMTM5|116173	CMTM5	1.44E-20	-1.5558
CPA1|1357	CPA1	7.19E-30	-2.41234
CRHR2|1395	CRHR2	4.90E-18	-1.55116
CST5|1473	CST5	2.69E-10	2.698205
CYP1A2|1544	CYP1A2	3.85E-05	-1.91728
DNAJC5G|285126	DNAJC5G	5.24E-07	-1.81122
EFNA2|1943	EFNA2	0.00022	3.684249
FCRL4|83417	FCRL4	1.36E-19	3.214507
FOXG1|2290	FOXG1	0.007469	1.826042
GAB4|128954	GAB4	9.84E-06	-1.81983
GNGT1|2792	GNGT1	0.003169	2.568962
GRIN2B|2904	GRIN2B	1.57E-22	-1.96937
HEPN1|641654	HEPN1	4.27E-27	-1.75457
HIST1H1A|3024	HIST1H1A	0.000727	2.624084
HIST1H2BB|3018	HIST1H2BB	2.74E-05	2.380529
HIST1H4L|8368	HIST1H4L	0.027934	2.907368
HORMAD2|150280	HORMAD2	1.21E-06	-2.04188
HOXC12|3228	HOXC12	0.003642	2.000368
HPD|3242	HPD	7.11E-19	-1.73639
HPYR1|93668	HPYR1	0.000457	1.603815
HS3ST4|9951	HS3ST4	4.44E-20	-1.62755
KCNH5|27133	KCNH5	1.49E-13	-2.25989
LOC201651|201651	LOC201651	5.61E-23	-1.58675
LOC284661|284661	LOC284661	2.11E-09	-2.04155
LOC642597|642597	LOC642597	7.99E-15	-2.46411
LOC646627|646627	LOC646627	0.008594	2.484756
LOC647309|647309	LOC647309	4.91E-21	-2.81833
METTL11B|149281	METTL11B	4.08E-18	4.624172
MYT1|4661	MYT1	3.94E-14	1.535842
NKX2-2|4821	NKX2-2	5.08E-05	2.172034
NKX2-3|159296	NKX2-3	0.030001	1.926245
PLAC1|10761	PLAC1	5.40E-23	2.290264
PROC|5624	PROC	4.76E-27	1.824074

PROKR1|10887	PROKR1	7.57E-18	-2.18765
RAX|30062	RAX	0.00046	2.652757
RBM46|166863	RBM46	3.51E-15	-1.89749
RESP18|389075	RESP18	0.040094	-3.60623
RP1-177G6.2|286411	RP1-177G6.2	4.35E-05	-1.72174
SBK2|646643	SBK2	2.74E-07	3.107397
SGCZ|137868	SGCZ	8.69E-14	-2.38789
SLC32A1|140679	SLC32A1	0.007723	1.951242
TCHHL1|126637	TCHHL1	0.004567	3.071436
TEPP|374739	TEPP	2.18E-18	-1.73811
TLX1NB|100038246	TLX1NB	2.49E-11	5.246989
TLX3|30012	TLX3	0.007964	3.431032
TMEM196|256130	TMEM196	1.25E-07	-1.67603

Appendix 2.2 – Specific genes for colorectal cancer.

Gene	Gene_Symbol	*pvalue*_adjust	$\log_2$(Foldchange)
ABCA12|26154	ABCA12	0.013616269	1.643277631
ADAMTS19|171019	ADAMTS19	1.07E-08	-1.959491023
ADRB3|155	ADRB3	2.61E-09	-2.215416844
AGTR1|185	AGTR1	4.69E-09	-1.540815906
ALK|238	ALK	2.77E-09	-2.435286939
ALOXE3|59344	ALOXE3	0.001238791	1.748629811
ANKS1B|56899	ANKS1B	1.75E-09	-1.838670765
AQP5|362	AQP5	0.000456892	1.745120133
ARL5C|390790	ARL5C	0.000800042	-2.135905797
ASPG|374569	ASPG	2.22E-07	-1.614966509
ASTN1|460	ASTN1	1.14E-09	-2.589355063
ATCAY|85300	ATCAY	1.22E-09	-2.399655444
ATP13A5|344905	ATP13A5	0.000900835	-2.605349991
BAI3|577	BAI3	1.14E-09	-2.47315172
BEST4|266675	BEST4	1.14E-09	-1.604901623
BEX1|55859	BEX1	1.14E-09	-1.965547374
C13orf38|728591	C13orf38	4.07E-06	-2.29141935
C2orf40|84417	C2orf40	1.14E-09	-2.115430071
C3orf72|401089	C3orf72	0.020596615	3.086948195
C6orf155|79940	C6orf155	2.87E-08	-1.501818793
C6orf186|728464	C6orf186	1.44E-09	-1.968623995
C9orf79|286234	C9orf79	1.81E-07	-3.345913355
CACNG7|59284	CACNG7	4.05E-08	-2.751026904
CADM2|253559	CADM2	1.14E-09	-3.319304299
CADM3|57863	CADM3	1.14E-09	-1.612654885
CALCA|796	CALCA	0.004384216	1.910789824
CDH19|28513	CDH19	1.32E-09	-2.340673265

CDH22|64405	CDH22	1.39E-08	-2.013341705
CHST8|64377	CHST8	4.77E-08	-1.95480862
CIDEA|1149	CIDEA	1.14E-09	-3.769467104
CLVS2|134829	CLVS2	1.14E-09	-4.216960803
CMA1|1215	CMA1	1.14E-09	-2.6897827
CNKSR2|22866	CNKSR2	9.28E-08	-1.56006196
CNTFR|1271	CNTFR	1.36E-09	-2.18989907
CNTN1|1272	CNTN1	2.22E-09	-1.85442353
CNTN2|6900	CNTN2	1.75E-09	-1.964378836
COL11A1|1301	COL11A1	2.20E-09	1.922362337
CPA4|51200	CPA4	2.52E-06	2.079227126
CPEB1|64506	CPEB1	1.14E-09	-2.156083822
CRHBP|1393	CRHBP	1.90E-09	-1.524735074
CST2|1470	CST2	1.07E-06	2.94536114
CTNNA3|29119	CTNNA3	2.88E-09	-2.510010175
CTNND2|1501	CTNND2	1.20E-09	-2.07986214
DBX2|440097	DBX2	0.003959924	-2.28248133
DIRC1|116093	DIRC1	0.000423808	4.527527773
DIRC3|729582	DIRC3	6.12E-09	-1.737382989
DMRTA1|63951	DMRTA1	1.90E-09	-1.966131566
DSCAML1|57453	DSCAML1	5.61E-09	-1.622068306
ELANE|1991	ELANE	1.14E-09	-3.169380239
ELAVL3|1995	ELAVL3	1.28E-09	-3.022420646
ELAVL4|1996	ELAVL4	2.95E-09	-1.778837666
ELMOD1|55531	ELMOD1	5.28E-08	-1.630317023
ENPP6|133121	ENPP6	1.14E-09	-1.533380339
EPHA5|2044	EPHA5	3.33E-08	-1.947896738
FAM135B|51059	FAM135B	1.14E-09	-2.47673762
FFAR1|2864	FFAR1	0.011065773	-2.123011358
FGF19|9965	FGF19	3.40E-05	2.281030133
FGF20|26281	FGF20	0.003817717	3.476588143
FGF3|2248	FGF3	0.028666265	3.095721699
FGF8|2253	FGF8	0.046061173	1.546188479
FMN2|56776	FMN2	2.63E-08	-1.815551664
GABRG1|2565	GABRG1	2.66E-10	-4.677518094
GFRA3|2676	GFRA3	1.14E-09	-1.520457022
GP2|2813	GP2	2.27E-07	-1.513583661
GPM6A|2823	GPM6A	2.37E-09	-2.043522353
GPR26|2849	GPR26	1.94E-07	-2.759383864
GRIA3|2892	GRIA3	1.22E-09	-1.62287957
GRIN2A|2903	GRIN2A	1.93E-09	-1.737028026
GSDMC|56169	GSDMC	1.08E-07	1.746355403
HABP2|3026	HABP2	6.70E-05	2.382556923
HCN4|10021	HCN4	2.97E-08	-1.731155825
HCRT|3060	HCRT	0.003187166	3.027137134
HEPHL1|341208	HEPHL1	0.000327045	1.647128084
HMHB1|57824	HMHB1	0.039525054	2.88295239

HMX3|340784	HMX3	9.01E-08	-1.769690646
HTR5A|3361	HTR5A	0.003902412	-3.129137091
IBSP|3381	IBSP	1.40E-06	3.812795083
IGSF11|152404	IGSF11	9.29E-09	-1.901592548
IL5RA|3568	IL5RA	3.98E-08	-2.063987075
INA|9118	INA	1.43E-09	-1.54728144
INSL6|11172	INSL6	0.038884333	-2.370352043
IRX5|10265	IRX5	3.84E-07	2.321498063
KCNIP1|30820	KCNIP1	2.28E-07	-1.730570802
KCNK2|3776	KCNK2	3.61E-09	-1.726205311
KCNQ2|3785	KCNQ2	2.80E-05	-1.608048554
KCNS2|3788	KCNS2	1.93E-08	-1.974093267
KIAA1751|85452	KIAA1751	0.000217383	2.024969534
KIAA2022|340533	KIAA2022	1.14E-09	-1.834149317
KIF1A|547	KIF1A	1.64E-09	-1.674081578
KIR3DX1|90011	KIR3DX1	0.001899671	-2.428419099
KRT23|25984	KRT23	1.47E-07	1.54210155
LECT1|11061	LECT1	2.78E-06	-2.291747184
LHFPL4|375323	LHFPL4	1.14E-09	-2.45113379
LOC284276|284276	LOC284276	1.20E-09	-1.910564527
LOC286467|286467	LOC286467	4.85E-08	2.876745898
LOC389493|389493	LOC389493	1.14E-09	-3.329926838
LOC400804|400804	LOC400804	0.000306636	-1.68847052
LONRF2|164832	LONRF2	6.96E-09	-1.660533341
LPO|4025	LPO	1.62E-06	3.050535727
LRAT|9227	LRAT	1.32E-09	-2.471645802
LY6G6D|58530	LY6G6D	0.000179225	1.563555523
LY6G6E|79136	LY6G6E	1.88E-07	4.194418952
MAS1L|116511	MAS1L	1.14E-09	-3.645931804
MCHR2|84539	MCHR2	9.37E-09	-4.005016352
MGAT4C|25834	MGAT4C	6.38E-10	-3.710509075
MMD2|221938	MMD2	7.82E-06	-2.612745514
MOGAT1|116255	MOGAT1	0.048534417	1.698051847
MYOT|9499	MYOT	1.14E-09	-2.372801234
MYT1L|23040	MYT1L	9.75E-09	-3.363720187
NANOS3|342977	NANOS3	1.66E-06	1.583508069
NCAN|1463	NCAN	4.25E-06	-1.562671
NEFL|4747	NEFL	1.24E-09	-1.864338069
NEFM|4741	NEFM	4.83E-09	-1.704897582
NEUROD1|4760	NEUROD1	1.70E-08	-2.203978476
NLGN1|22871	NLGN1	1.15E-09	-2.328572734
NPAS4|266743	NPAS4	8.61E-09	-2.041403899
NPFFR1|64106	NPFFR1	5.12E-06	1.609569306
NRSN1|140767	NRSN1	3.64E-09	-2.455005241
NTNG1|22854	NTNG1	5.53E-08	-1.719221212
OBP2B|29989	OBP2B	0.015174122	3.403070548
ONECUT3|390874	ONECUT3	0.024111762	4.610758201

OPRM1|4988	OPRM1	1.79E-07	-3.368526135
OR1J4|26219	OR1J4	0.015122208	2.956573638
OR2L13|284521	OR2L13	1.14E-09	-3.73722234
PAX4|5078	PAX4	6.85E-06	-1.659563996
PCDH10|57575	PCDH10	1.36E-09	-2.370029376
PCDH8|5100	PCDH8	4.40E-06	-1.507066745
PCDHB1|29930	PCDHB1	5.75E-06	-2.501274281
PCP4L1|654790	PCP4L1	1.66E-07	-1.599600611
PENK|5179	PENK	4.01E-06	-1.571315001
PGC|5225	PGC	4.55E-05	2.155346908
PGLYRP3|114771	PGLYRP3	0.005715666	4.703651326
PHOX2B|8929	PHOX2B	1.14E-09	-2.951251347
PIK3C2G|5288	PIK3C2G	1.19E-09	-2.660360835
PKD1L2|114780	PKD1L2	1.47E-08	-1.81537733
PLCXD3|345557	PLCXD3	4.11E-09	-1.809973846
PLD5|200150	PLD5	1.28E-09	-3.203055945
PPP1R1A|5502	PPP1R1A	2.54E-08	-1.873958144
PRB2|653247	PRB2	0.015638157	3.967656468
PRHOXNB|646625	PRHOXNB	9.57E-08	-2.199080178
PRPH|5630	PRPH	1.14E-09	-1.744126676
PRRT4|401399	PRRT4	1.61E-06	-1.504921796
PTPRZ1|5803	PTPRZ1	1.22E-09	-1.985305023
RALYL|138046	RALYL	1.14E-09	-3.460967061
RGS22|26166	RGS22	4.83E-08	-1.879558179
RIC3|79608	RIC3	3.93E-09	-1.643830836
RIMS2|9699	RIMS2	9.69E-08	-2.174612553
RIMS4|140730	RIMS4	1.83E-09	-2.096852433
RIPPLY2|134701	RIPPLY2	4.67E-06	-2.589529121
RORB|6096	RORB	9.80E-07	-1.55833264
RSPO2|340419	RSPO2	1.14E-09	-1.736700687
SAA4|6291	SAA4	7.10E-06	2.773909211
SALL4|57167	SALL4	1.73E-09	1.80928892
SCG3|29106	SCG3	1.66E-09	-1.906589225
SCNN1G|6340	SCNN1G	1.50E-06	-1.665910136
SEC14L4|284904	SEC14L4	0.046548471	1.635986278
SEMG2|6407	SEMG2	0.019094285	4.615363633
SERPINB7|8710	SERPINB7	0.000239185	2.173943417
SEZ6L|23544	SEZ6L	3.93E-09	-2.010580172
SFTPD|6441	SFTPD	5.54E-07	-1.500683998
SGCG|6445	SGCG	1.14E-09	-3.354866576
SLC16A12|387700	SLC16A12	1.14E-09	-1.651856805
SLC26A9|115019	SLC26A9	3.94E-05	2.029847241
SLC35F3|148641	SLC35F3	2.89E-08	-1.859047215
SLC6A15|55117	SLC6A15	1.14E-09	-2.649905528
SLCO1B1|10599	SLCO1B1	0.004893735	3.553262028
SLCO4C1|353189	SLCO4C1	1.83E-09	-1.633491457
SLITRK4|139065	SLITRK4	4.11E-09	-1.609809138

SNTG2|54221	SNTG2	1.91E-09	-2.498388281
SNX32|254122	SNX32	2.13E-08	-1.86893521
SOHLH2|54937	SOHLH2	1.10E-05	-2.188607796
SORCS1|114815	SORCS1	1.14E-09	-1.601257706
SORCS3|22986	SORCS3	2.22E-09	-2.702152474
SOX14|8403	SOX14	1.61E-06	6.463829767
SPAG17|200162	SPAG17	0.033827473	1.775867886
SPAG6|9576	SPAG6	1.03E-07	-2.336366663
SPOCK3|50859	SPOCK3	1.64E-09	-3.298319503
SPRR1A|6698	SPRR1A	0.00019801	6.209938374
SPRR2E|6704	SPRR2E	0.02240964	3.885866044
SST|6750	SST	1.14E-09	-2.594838441
ST8SIA3|51046	ST8SIA3	1.14E-09	-3.191635791
STAC2|342667	STAC2	1.10E-08	-1.761080972
STON1-GTF2A1L|286749	STON1-GTF2A1L	0.026052229	-1.625236197
SYT10|341359	SYT10	1.14E-09	-2.872378111
SYT4|6860	SYT4	1.14E-09	-2.208641113
TAS2R38|5726	TAS2R38	3.64E-06	1.596160337
TAT|6898	TAT	2.39E-09	-2.112375708
TBX5|6910	TBX5	0.039525054	3.957179577
TG|7038	TG	5.84E-08	1.512262648
TMEFF2|23671	TMEFF2	9.04E-10	-3.813159747
TNNI3|7137	TNNI3	1.41E-06	2.664955924
TPH1|7166	TPH1	3.73E-09	-2.085081868
TPH2|121278	TPH2	0.000498537	-2.85494559
TTTY14|83869	TTTY14	0.003057164	-1.943024116
ULBP1|80329	ULBP1	2.47E-18	1.602128611
UNC5D|137970	UNC5D	4.25E-09	-1.825621304
VSTM2A|222008	VSTM2A	1.14E-09	-2.664434556
WDR17|116966	WDR17	1.12E-08	-1.619189625
ZIC1|7545	ZIC1	3.99E-07	-2.716436026
ZIM2|23619	ZIM2	0.004445561	-3.219101071
ZNF492|57615	ZNF492	1.43E-07	-1.791869641
ZNF727|442319	ZNF727	1.78E-07	-1.597576786

Appendix 2.3 – Specific genes for head and neck cancer.

Gene	**Gene_Symbol**	***pvalue*_adjust**	**log_2(Foldchange)**
ABCC8|6833	ABCC8	0.002886	-1.64487
ACCSL|390110	ACCSL	0.017251	-4.46586
ADH1B|125	ADH1B	5.22E-06	-1.50847
C10orf90|118611	C10orf90	0.00171	-1.58835
C10orf93|255352	C10orf93	4.01E-05	-1.6121
C20orf141|128653	C20orf141	0.000115	2.657089

C6|729	C6	1.49E-05	-2.09328
C6orf10|10665	C6orf10	0.00264	2.068684
C6orf118|168090	C6orf118	0.004799	-2.13908
CDH12|1010	CDH12	0.000369	-1.64874
CSMD3|114788	CSMD3	0.003188	2.413996
CSN2|1447	CSN2	0.000194	-3.87293
CYP4Z2P|163720	CYP4Z2P	0.003838	-1.90255
DCT|1638	DCT	0.002998	-1.80696
DPCR1|135656	DPCR1	0.000339	-2.05493
FAM183B|340286	FAM183B	0.021358	1.796244
FOXI2|399823	FOXI2	1.91E-06	-1.97321
GABRB1|2560	GABRB1	0.020173	-1.64627
GABRG3|2567	GABRG3	0.00443	-1.88479
GPR144|347088	GPR144	6.71E-05	2.581066
GRIA4|2893	GRIA4	0.005161	-1.83473
GRIK3|2899	GRIK3	6.85E-05	-1.60634
GRM7|2917	GRM7	0.000258	-2.66205
HOXC9|3225	HOXC9	1.58E-05	1.58117
IL24|11009	IL24	1.35E-08	1.704819
KCTD8|386617	KCTD8	0.00634	-1.50451
KLHL33|123103	KLHL33	0.004562	-1.67289
LHX5|64211	LHX5	0.000329	2.879919
MDGA2|161357	MDGA2	0.033456	-2.17008
MGC16121|84848	MGC16121	1.09E-05	1.610461
NOL4|8715	NOL4	0.004081	-1.89419
NPFFR2|10886	NPFFR2	0.026659	-2.0073
NR1H4|9971	NR1H4	0.033858	-1.50582
PACRG|135138	PACRG	8.12E-06	-1.57245
PAQR9|344838	PAQR9	0.014584	-1.79885
POU3F3|5455	POU3F3	0.015746	-1.98509
PROKR2|128674	PROKR2	0.041303	-3.99935
RBP4|5950	RBP4	4.27E-06	-1.61413
RGR|5995	RGR	0.001812	-1.53036
RGS7BP|401190	RGS7BP	0.000141	-1.59042
SHISA9|729993	SHISA9	5.43E-05	-1.65975
SOST|50964	SOST	0.000383	1.859097
SPATA4|132851	SPATA4	0.014287	-2.17129
TRH|7200	TRH	0.004388	-1.83477
TRPM3|80036	TRPM3	0.000181	-1.67294
UGT3A1|133688	UGT3A1	0.000331	-3.33054
VAX1|11023	VAX1	0.001099	3.207563
WIF1|11197	WIF1	3.08E-06	-2.28337
ZNF536|9745	ZNF536	0.001242	-1.52373

Appendix 2.4 – Specific genes for Kidney$_R$ cancer.

Genes	Gene_Symbol	*pvalue*_adjust	log$_2$(Foldchange)
A2BP1|54715	A2BP1	7.29E-14	-3.00006
AKNAD1|254268	AKNAD1	2.08E-06	-1.59635
ANKRD2|26287	ANKRD2	1.27E-12	-1.60536
ATP10B|23120	ATP10B	3.39E-11	-1.79186
ATP4B|496	ATP4B	2.57E-12	-2.18389
BCAS1|8537	BCAS1	3.50E-11	-1.57479
BIRC7|79444	BIRC7	1.91E-11	2.807446
BMP7|655	BMP7	4.39E-12	-1.84876
BTBD16|118663	BTBD16	4.55E-10	1.764211
C11orf16|56673	C11orf16	1.81E-12	-2.54477
C11orf86|254439	C11orf86	6.50E-05	1.613885
C14orf50|145376	C14orf50	3.33E-12	-1.51225
C15orf53|400359	C15orf53	0.000168	2.353073
C1orf127|148345	C1orf127	7.38E-21	1.865365
C4orf6|10141	C4orf6	6.01E-12	2.961184
C5orf38|153571	C5orf38	2.10E-12	-1.77362
CA9|768	CA9	2.29E-12	2.453755
CALB1|793	CALB1	3.00E-09	-1.68986
CAPN8|388743	CAPN8	2.60E-12	-2.56639
CCDC33|80125	CCDC33	5.40E-10	-1.88397
CD5L|922	CD5L	1.10E-07	2.494575
CKMT1A|548596	CKMT1A	1.49E-09	-1.50097
CLCN1|1180	CLCN1	9.72E-10	-1.898
CLCNKA|1187	CLCNKA	6.47E-13	-1.84429
CLDN16|10686	CLDN16	1.75E-12	-1.74872
CLDN19|149461	CLDN19	5.53E-13	-1.59617
CLNK|116449	CLNK	4.29E-12	-2.02244
DEFB132|400830	DEFB132	4.91E-23	-4.66636
DLX2|1746	DLX2	7.76E-09	2.385863
EHF|26298	EHF	6.85E-13	-1.65821
EMID2|136227	EMID2	1.28E-12	-2.16903
EPN3|55040	EPN3	8.05E-13	-2.08787
ESRP1|54845	ESRP1	4.58E-12	-1.58443
ESRRB|2103	ESRRB	5.53E-13	-1.93313
FAM184B|27146	FAM184B	6.29E-13	-3.04751
FBN3|84467	FBN3	9.42E-13	-2.55144
FGFBP1|9982	FGFBP1	3.39E-12	-2.34274
FLJ42875|440556	FLJ42875	8.53E-13	-1.9254
FOXI1|2299	FOXI1	4.54E-13	-2.68567
GABRA2|2555	GABRA2	2.57E-13	-2.74847
GGT6|124975	GGT6	5.77E-13	-1.62946
GPR110|266977	GPR110	6.24E-13	-1.90939
GRM1|2911	GRM1	1.30E-12	-1.58753
HAO1|54363	HAO1	0.046775	-2.00276

HEPACAM2|253012	HEPACAM2	6.29E-13	-2.75543
HES5|388585	HES5	1.28E-08	2.204206
KRT32|3882	KRT32	9.53E-05	2.245748
LGALS12|85329	LGALS12	1.17E-07	1.572626
LGR5|8549	LGR5	9.64E-10	-1.77355
LILRA4|23547	LILRA4	2.40E-10	1.943551
LINGO3|645191	LINGO3	2.97E-05	2.373166
LOC100128076|100128076	LOC100128076	0.00023	3.27088
LOC100131551|100131551	LOC100131551	1.04E-11	1.518689
LOC285796|285796	LOC285796	1.80E-08	-1.52571
LSAMP|4045	LSAMP	1.81E-12	-2.12273
LYPD6B|130576	LYPD6B	1.18E-12	-1.86292
MAP3K15|389840	MAP3K15	5.22E-12	-1.65106
MARCH10|162333	Mar-10	1.58E-12	-2.11681
MYO3B|140469	MYO3B	1.66E-12	-1.60236
NAT8L|339983	NAT8L	1.05E-12	-1.78015
NCRNA00160|54064	NCRNA00160	0.004085	3.997237
OLFM4|10562	OLFM4	4.13E-11	-1.83136
OVOL2|58495	OVOL2	1.93E-12	-2.36427
PADI1|29943	PADI1	2.83E-09	1.670867
PHF21B|112885	PHF21B	4.87E-11	-1.84308
PLA2G4F|255189	PLA2G4F	6.29E-13	-2.48493
PPP1R1B|84152	PPP1R1B	5.41E-12	-2.04124
PVT1|5820	PVT1	5.44E-13	1.759878
RAB25|57111	RAB25	2.66E-12	-1.84067
RAB3B|5865	RAB3B	1.93E-10	-1.77842
RANBP3L|202151	RANBP3L	5.41E-13	-1.82702
RNASE3|6037	RNASE3	4.35E-07	2.222466
ROS1|6098	ROS1	4.15E-15	-3.61662
RUFY4|285180	RUFY4	1.74E-09	1.832019
RXFP4|339403	RXFP4	4.56E-11	-2.11242
S100A5|6276	S100A5	1.06E-11	-1.93999
S100Z|170591	S100Z	1.45E-11	2.565697
SFTA1P|207107	SFTA1P	4.02E-12	3.437696
SLC17A2|10246	SLC17A2	9.27E-10	1.946801
ST8SIA2|8128	ST8SIA2	2.73E-09	-1.65818
TAGLN3|29114	TAGLN3	6.29E-13	-2.38993
TDGF3|6998	TDGF3	1.32E-12	-2.68638
TFAP2C|7022	TFAP2C	4.05E-11	-1.63251
TGM7|116179	TGM7	3.64E-12	-2.36209
TMEM61|199964	TMEM61	2.60E-12	-1.91917
TMPRSS12|283471	TMPRSS12	4.58E-11	-2.59996
TMPRSS4|56649	TMPRSS4	2.60E-12	-1.76942
TNFAIP6|7130	TNFAIP6	5.35E-12	1.887395
TNFSF14|8740	TNFSF14	1.64E-11	2.169032
TNIP3|79931	TNIP3	1.12E-08	1.589871
TNNI2|7136	TNNI2	4.08E-11	1.798761

TP73|7161	TP73	2.32E-12	1.971944
UBASH3A|53347	UBASH3A	3.11E-11	1.517861
UMODL1|89766	UMODL1	5.57E-14	-3.15148
UNC5A|90249	UNC5A	1.15E-10	1.752731
UNC93A|54346	UNC93A	7.26E-09	-1.78974
VSIG1|340547	VSIG1	8.84E-12	1.62234
VWA3B|200403	VWA3B	2.56E-11	-2.25117
WFDC12|128488	WFDC12	1.05E-09	-1.95293
ZIC3|7547	ZIC3	9.23E-10	-1.92572

Appendix 2.5 – Specific genes for Kidney$_P$ cancer.

Genes	**Gene_Symbol**	***pvalue*_adjust**	**log_2(Foldchange)**
ABCC13|150000	ABCC13	0.020261	-2.49726
ALX4|60529	ALX4	4.99E-07	-2.34243
APOH|350	APOH	3.53E-10	-1.60423
AZU1|566	AZU1	0.005391	1.785546
C10orf50|645528	C10orf50	5.05E-06	2.470227
C1orf168|199920	C1orf168	6.30E-12	-1.63867
C1orf64|149563	C1orf64	5.76E-13	-2.63175
C21orf29|54084	C21orf29	1.06E-11	-2.49436
C4orf26|152816	C4orf26	2.52E-07	2.404864
C6orf223|221416	C6orf223	1.12E-11	-1.71534
CALML3|810	CALML3	1.34E-11	-2.25044
CAMK2A|815	CAMK2A	1.15E-12	-2.84986
CAMP|820	CAMP	0.001468	1.565385
CASQ2|845	CASQ2	6.74E-12	-1.52433
CGA|1081	CGA	3.62E-25	-5.49976
CHRM3|1131	CHRM3	3.44E-12	-1.80249
CLEC3A|10143	CLEC3A	2.70E-12	-2.79833
CPNE6|9362	CPNE6	6.13E-16	-4.83861
CSF3|1440	CSF3	3.39E-06	-1.74952
DCDC2B|149069	DCDC2B	0.002457	1.549908
DNAJC5B|85479	DNAJC5B	1.00E-09	2.478569
DOC2A|8448	DOC2A	3.34E-10	1.551318
EBF2|64641	EBF2	1.05E-12	-2.48716
F11|2160	F11	9.04E-13	-2.15634
FAM3B|54097	FAM3B	1.10E-11	-1.68031
FBXO40|51725	FBXO40	2.00E-09	-1.86456
FLJ32063|150538	FLJ32063	8.51E-07	2.661072
FSTL4|23105	FSTL4	1.64E-11	-1.57905
FXYD3|5349	FXYD3	2.69E-11	-1.89871

G6PC|2538	G6PC	9.91E-12	-1.66451
GABRR1|2569	GABRR1	9.60E-13	-2.56177
GATA5|140628	GATA5	2.28E-12	-1.98267
GCKR|2646	GCKR	5.08E-06	1.684503
HCRTR1|3061	HCRTR1	1.63E-09	-1.97252
HRG|3273	HRG	2.18E-14	-3.36567
HTR3D|200909	HTR3D	0.000159	2.075698
HTRA4|203100	HTRA4	1.81E-10	2.64938
IFITM5|387733	IFITM5	0.000395	2.996621
IGFN1|91156	IGFN1	0.001902	1.608448
LMX1B|4010	LMX1B	1.60E-11	-1.7164
LOC283404|283404	LOC283404	2.61E-05	2.101133
LOC348840|348840	LOC348840	0.017588	1.926476
MAT1A|4143	MAT1A	1.16E-09	-1.57392
MCCD1|401250	MCCD1	2.03E-12	-2.01998
MUC12|10071	MUC12	5.31E-10	2.427232
MYOCD|93649	MYOCD	1.43E-11	-1.72902
NXPH2|11249	NXPH2	4.74E-14	-3.83735
PEBP4|157310	PEBP4	1.08E-10	-1.65674
PI16|221476	PI16	1.48E-12	-2.2919
PKD2L1|9033	PKD2L1	2.45E-06	1.623181
PLA2G3|50487	PLA2G3	1.11E-20	-3.87671
PRDM16|63976	PRDM16	2.22E-12	-1.94056
PROZ|8858	PROZ	9.58E-12	-2.19413
PSORS1C1|170679	PSORS1C1	1.33E-11	1.602698
PYY|5697	PYY	8.85E-11	-2.0743
RASL11B|65997	RASL11B	5.82E-13	-1.73558
RGS17|26575	RGS17	2.83E-19	1.783547
RIMBP2|23504	RIMBP2	1.44E-11	-2.10395
RPS4Y2|140032	RPS4Y2	0.02523	-1.6671
SCEL|8796	SCEL	2.00E-08	1.506034
SLC22A8|9376	SLC22A8	4.05E-12	-2.34603
SLC4A9|83697	SLC4A9	6.79E-13	-3.20459
SLC5A11|115584	SLC5A11	4.60E-10	-1.67103
SLC9A10|285335	SLC9A10	5.46E-08	1.564697
TBL1Y|90665	TBL1Y	7.04E-08	-3.13635
TFAP2A|7020	TFAP2A	5.14E-11	-1.68518
TNNT2|7139	TNNT2	1.12E-12	-2.40465
TTC36|143941	TTC36	6.38E-12	-1.75581
TTR|7276	TTR	2.84E-13	-2.78408
UCN|7349	UCN	1.60E-23	1.561109

Appendix 2.6 – Specific genes for liver cancer.

Gene	Gene_Symbol	*pvalue*_adjust	log_2(Foldchange)
ABCB5|340273	ABCB5	1.11E-05	2.693574108
ACTL8|81569	ACTL8	0.002859	2.801744664
ALPI|248	ALPI	0.004168	2.073559299
AMPD1|270	AMPD1	3.38E-11	-1.878232719
ANKFN1|162282	ANKFN1	0.003312	3.687692392
ANKRD30B|374860	ANKRD30B	3.99E-07	-2.413015562
ASCL4|121549	ASCL4	0.002523	2.051268009
ATP13A4|84239	ATP13A4	7.51E-17	-1.897269429
B3GALT5|10317	B3GALT5	5.70E-17	-2.015610831
BEND4|389206	BEND4	1.91E-14	-1.529700439
BFSP2|8419	BFSP2	1.54E-06	1.916621718
BMP10|27302	BMP10	3.41E-23	-3.579702606
BMPER|168667	BMPER	7.13E-20	-1.703641155
C14orf180|400258	C14orf180	3.68E-19	-2.207839521
C1orf125|126859	C1orf125	9.69E-05	1.638369228
C1orf158|93190	C1orf158	0.014681	3.5934163
C20orf186|149954	C20orf186	7.35E-05	2.357015691
C21orf62|56245	C21orf62	8.22E-19	-2.405857696
C7orf71|285941	C7orf71	0.013417	2.699601482
C9orf50|375759	C9orf50	0.001854	1.932355858
CACNA1B|774	CACNA1B	0.039799	1.689402461
CACNA1E|777	CACNA1E	1.03E-06	2.058050334
CACNA1S|779	CACNA1S	9.29E-07	3.287807493
CAPN14|440854	CAPN14	1.06E-05	1.867603705
CARD18|59082	CARD18	0.000158	5.320565794
CBLN2|147381	CBLN2	2.85E-14	-2.110565416
CCBE1|147372	CCBE1	1.06E-18	-1.654231084
CCDC144NL|339184	CCDC144NL	0.036453	2.68469858
CCL26|10344	CCL26	9.47E-06	1.859856339
CD164L2|388611	CD164L2	0.036692	-2.012992886
CDH10|1008	CDH10	0.015776	3.098723065
CDH8|1006	CDH8	1.45E-07	3.236695222
CDH9|1007	CDH9	0.002669	5.501310695
CEACAM20|125931	CEACAM20	0.000132	2.203672893
CFTR|1080	CFTR	4.46E-15	-1.514844183
CHGA|1113	CHGA	3.15E-07	2.881103544
CLDN10|9071	CLDN10	3.40E-14	-1.565634564
CLEC1B|51266	CLEC1B	1.47E-22	-2.831046142
CLEC2L|154790	CLEC2L	0.000236	2.703667404
CLEC4C|170482	CLEC4C	0.00073	-1.570233033

CLEC4G|339390	CLEC4G	7.13E-20	-1.930074561
CLEC4GP1|440508	CLEC4GP1	1.35E-12	-1.612718482
CLEC4M|10332	CLEC4M	3.98E-20	-2.655522436
COL24A1|255631	COL24A1	1.00E-06	1.732005307
COL25A1|84570	COL25A1	4.83E-17	-1.52344778
COL2A1|1280	COL2A1	0.006039	2.343152129
COL6A6|131873	COL6A6	2.37E-19	-2.124914047
COX7B2|170712	COX7B2	2.36E-08	5.533620437
CPA5|93979	CPA5	0.004612	1.849402794
CPA6|57094	CPA6	1.60E-07	3.253694502
CPLX2|10814	CPLX2	2.03E-09	2.4505635
CR1L|1379	CR1L	7.51E-13	-1.709738277
CSMD1|64478	CSMD1	7.20E-08	4.129564923
CTAG2|30848	CTAG2	1.24E-05	5.999762549
CWH43|80157	CWH43	1.92E-12	-2.077855343
CYP19A1|1588	CYP19A1	0.000103	1.971777186
CYP2W1|54905	CYP2W1	1.68E-06	1.730327735
DCAF4L2|138009	DCAF4L2	1.93E-05	3.567870628
DCC|1630	DCC	0.002002	3.007582255
DDX53|168400	DDX53	3.48E-05	5.136105886
DEFA4|1669	DEFA4	5.24E-07	-1.657159647
DLX5|1749	DLX5	3.34E-07	2.65850809
DPYSL5|56896	DPYSL5	0.009804	2.518112149
DQX1|165545	DQX1	0.016542	1.899668377
DRP2|1821	DRP2	1.14E-05	2.270084167
ELAVL2|1993	ELAVL2	5.67E-06	1.64599379
EPS8L3|79574	EPS8L3	2.09E-11	1.593494056
ERBB4|2066	ERBB4	4.21E-12	-1.553393988
ERC2|26059	ERC2	3.01E-05	1.899959482
FAM55D|54827	FAM55D	0.001368	-1.945865389
FAM5B|57795	FAM5B	4.31E-15	-1.532492136
FAM83B|222584	FAM83B	3.27E-15	-1.96452871
FAM83E|54854	FAM83E	3.36E-11	-1.5369875
FAM83F|113828	FAM83F	1.53E-16	-1.884854778
FCAR|2204	FCAR	1.22E-13	-1.77374679
FGF23|8074	FGF23	7.34E-19	-3.262576054
FRMPD2|143162	FRMPD2	0.004086	2.859109619
FSHR|2492	FSHR	0.011351	-1.932732321
GABRD|2563	GABRD	1.17E-19	1.699680126
GABRR3|200959	GABRR3	7.82E-05	4.20962032
GAGE12J|729396	GAGE12J	0.000973	5.437585155
GAST|2520	GAST	0.007663	4.03541363
GDF2|2658	GDF2	5.96E-21	-2.684402389
GHRHR|2692	GHRHR	0.000178	1.545897681
GJA10|84694	GJA10	7.90E-05	4.922305036
GJD4|219770	GJD4	0.004531	2.375123689
GLP1R|2740	GLP1R	6.86E-05	3.918025652

GLP2R|9340	GLP2R	9.66E-17	-2.254331219
GPRIN2|9721	GPRIN2	1.14E-14	-1.575245529
GRIN1|2902	GRIN1	0.0002	2.021176897
H1FNT|341567	H1FNT	0.003255	2.413876533
HBD|3045	HBD	4.63E-11	-1.580482143
HHIP|64399	HHIP	1.10E-18	-1.777352945
HIST3H2BB|128312	HIST3H2BB	0.035828	2.091973159
HOXA10|3206	HOXA10	8.49E-10	1.80595931
HOXA6|3203	HOXA6	0.000501	3.896997555
HOXD1|3231	HOXD1	2.31E-13	2.902751321
HOXD3|3232	HOXD3	5.08E-11	2.907601209
HOXD4|3233	HOXD4	6.04E-13	3.51833222
HRH3|11255	HRH3	5.74E-05	3.111425203
IGDCC3|9543	IGDCC3	1.27E-06	3.330282258
IGFL2|147920	IGFL2	0.000121	2.737805742
IGLL1|3543	IGLL1	0.041858	2.475260551
IL17F|112744	IL17F	0.038537	2.869305345
ISL2|64843	ISL2	5.77E-07	1.921799394
ISX|91464	ISX	3.08E-09	2.707557576
ITLN1|55600	ITLN1	3.64E-18	-1.821961899
KCNG3|170850	KCNG3	0.036804	2.181201572
KCNH7|90134	KCNH7	2.71E-11	-1.531179371
KCNJ9|3765	KCNJ9	0.004544	2.549839614
KCNK16|83795	KCNK16	0.000225	-2.728747099
KCNK9|51305	KCNK9	2.04E-07	3.188165566
KCNU1|157855	KCNU1	0.000194	3.681739953
KIRREL2|84063	KIRREL2	0.005088	1.698054836
KLK10|5655	KLK10	1.46E-14	-1.906009247
KLK11|11012	KLK11	1.41E-15	-2.101416032
KLK2|3817	KLK2	0.000367	3.670903934
KLK4|9622	KLK4	0.006032	3.146444501
KRT12|3859	KRT12	0.000992	3.937191886
KRT20|54474	KRT20	0.000117	2.512377727
KRTAP1-1|81851	KRTAP1-1	4.46E-05	-1.713981046
LCE1C|353133	LCE1C	0.033695	2.47374697
LDLRAD1|388633	LDLRAD1	1.45E-07	2.075353467
LILRA3|11026	LILRA3	4.26E-11	-1.520436102
LINGO2|158038	LINGO2	0.001831	-1.633943369
LOC100133469|100133469	LOC100133469	6.38E-06	4.046305066
LOC146336|146336	LOC146336	0.011127	1.68072914
LOC221122|221122	LOC221122	3.59E-11	4.73117991
LOC285629|285629	LOC285629	0.000212	2.015951941
LOC731789|731789	LOC731789	0.006505	2.884930464
LOC84740|84740	LOC84740	4.07E-07	1.642748212
LPAR4|2846	LPAR4	3.14E-05	2.060536748
LRRC26|389816	LRRC26	0.001068	1.768476512
MAG|4099	MAG	8.36E-06	-1.661210836

MAGEA8|4107	MAGEA8	0.001951	2.840981823
MAGEB1|4112	MAGEB1	0.003542	4.270479561
MAGEB2|4113	MAGEB2	9.09E-05	5.030140383
MAGEC1|9947	MAGEC1	0.00022	3.288053943
MAGEC2|51438	MAGEC2	3.97E-06	3.363836946
MARCH4|57574	Mar-04	1.07E-15	2.793764144
MARCO|8685	MARCO	1.60E-19	-1.60468368
MKRN3|7681	MKRN3	9.70E-08	1.954241694
MYBPHL|343263	MYBPHL	2.25E-06	3.288193364
MYCBPAP|84073	MYCBPAP	6.67E-06	1.698216797
MYH1|4619	MYH1	0.004893	1.682966645
MYH13|8735	MYH13	0.009785	1.69491503
MYH8|4626	MYH8	0.016778	1.640807449
MYO18B|84700	MYO18B	1.29E-07	2.766720764
MYO3A|53904	MYO3A	8.11E-18	-2.159492141
NAA11|84779	NAA11	0.001321	5.824472442
NCRNA00164|554226	NCRNA00164	0.000662	2.328878366
NEUROD6|63974	NEUROD6	0.037475	-2.37582035
NR0B1|190	NR0B1	0.005054	2.967591071
NUDT10|170685	NUDT10	4.94E-19	-1.956842717
NXF5|55998	NXF5	0.00218	2.711814422
ODZ3|55714	ODZ3	2.84E-14	-1.555814916
OPN1MW|2652	OPN1MW	0.033822	-3.480515302
OR13A1|79290	OR13A1	0.001733	2.105530115
OR1J2|26740	OR1J2	0.022184	1.967838425
OR51E1|143503	OR51E1	9.21E-17	1.80610528
OR51E2|81285	OR51E2	1.31E-09	2.47967725
OR56A3|390083	OR56A3	0.01909	3.773501625
OR5AK2|390181	OR5AK2	1.46E-05	-3.018915039
PAGE1|8712	PAGE1	0.025428	3.452890355
PAGE2|203569	PAGE2	0.011348	2.892740606
PAGE2B|389860	PAGE2B	0.006567	2.284953228
PAGE4|9506	PAGE4	0.000248	2.476870562
PANX3|116337	PANX3	0.0352	3.490524226
PART1|25859	PART1	0.017012	2.717932127
PDZRN4|29951	PDZRN4	6.04E-17	-1.512681116
PGK2|5232	PGK2	0.007129	3.984728811
PHACTR3|116154	PHACTR3	1.80E-18	-1.922572004
PMP2|5375	PMP2	2.58E-16	-2.500152061
PNCK|139728	PNCK	0.000243	2.087394622
POPDC3|64208	POPDC3	0.017888	2.26041195
PRDM7|11105	PRDM7	4.28E-09	2.712468724
PRDM9|56979	PRDM9	1.95E-05	4.100760676
PRND|23627	PRND	2.29E-09	1.754791528
PROK2|60675	PROK2	1.76E-10	-1.8293991
PVALB|5816	PVALB	1.65E-19	-2.493496995
PZP|5858	PZP	1.43E-16	-1.751383432

RCVRN|5957	RCVRN	9.34E-11	-1.756482164
RDH8|50700	RDH8	0.00139	4.132833024
REG1B|5968	REG1B	0.003953	5.720864063
REG3A|5068	REG3A	8.34E-06	2.620626495
RFPL4B|442247	RFPL4B	5.32E-05	3.760201687
RGS9BP|388531	RGS9BP	5.31E-06	1.628225144
RPS6KA6|27330	RPS6KA6	5.92E-16	-2.111865016
RTL1|388015	RTL1	0.028645	1.843416162
S100A12|6283	S100A12	3.48E-15	-1.653921077
SCGB1D2|10647	SCGB1D2	0.01993	2.566671737
SH2D4B|387694	SH2D4B	1.59E-07	2.101736062
SHISA6|388336	SHISA6	0.004429	2.598924345
SIX2|10736	SIX2	2.46E-12	2.913971984
SLC17A8|246213	SLC17A8	6.12E-17	-1.867080843
SLC22A6|9356	SLC22A6	0.004839	3.269317639
SLC28A3|64078	SLC28A3	1.65E-14	-1.810461031
SLC34A3|142680	SLC34A3	1.41E-08	2.453000837
SLC5A1|6523	SLC5A1	2.20E-16	-1.664932499
SLC7A4|6545	SLC7A4	2.05E-14	-1.54494385
SLCO1C1|53919	SLCO1C1	9.33E-15	4.410145805
SLCO6A1|133482	SLCO6A1	0.001361	4.586610111
SLITRK6|84189	SLITRK6	1.89E-18	-2.148243198
SLN|6588	SLN	0.042308	2.15179078
SMEK3P|139420	SMEK3P	4.60E-05	4.103666417
SPINK5|11005	SPINK5	3.11E-09	1.575673914
SPRR2A|6700	SPRR2A	3.46E-05	-2.212329387
SPSB4|92369	SPSB4	6.48E-18	-1.87143402
SRRM4|84530	SRRM4	0.015007	2.291791301
SSX1|6756	SSX1	6.06E-07	4.274758243
SSX3|10214	SSX3	0.000985	4.171996957
SSX6|280657	SSX6	0.003211	2.961522348
STAB2|55576	STAB2	7.07E-20	-1.971292939
STRA8|346673	STRA8	0.00098	3.726976361
TAS2R10|50839	TAS2R10	0.001904	1.71757852
TBX4|9496	TBX4	2.10E-08	3.482736663
TEX15|56154	TEX15	2.25E-12	-1.530070942
TFDP3|51270	TFDP3	0.002709	3.761040331
TFF2|7032	TFF2	1.70E-08	-1.577657904
THBS4|7060	THBS4	3.72E-17	1.883985751
TIMD4|91937	TIMD4	5.88E-17	-1.535967016
TINAG|27283	TINAG	0.00018	2.731250293
TM4SF20|79853	TM4SF20	0.00027	2.067194059
TMEM132C|92293	TMEM132C	1.20E-14	-2.075347196
TRIM71|131405	TRIM71	1.93E-06	3.796145367
TRPM5|29850	TRPM5	0.000889	1.797009449
TSPY2|64591	TSPY2	0.01498	4.761386609
UBL4B|164153	UBL4B	9.42E-05	3.606772329

UPK1B|7348	UPK1B	2.99E-08	-1.688324157
UPK3A|7380	UPK3A	0.000907	1.512701494
VCX3A|51481	VCX3A	0.000193	1.942629262
VSX2|338917	VSX2	0.002996	3.918115952
VWDE|221806	VWDE	8.51E-08	-1.505170533
WNT3A|89780	WNT3A	3.14E-09	4.130819911
XAGE5|170627	XAGE5	0.003762	4.23427487
ZIC2|7546	ZIC2	2.74E-15	2.65735626
ZNF679|168417	ZNF679	0.040213	4.144801719
ZNF695|57116	ZNF695	1.11E-05	2.028627343
ZNF716|441234	ZNF716	0.000154	4.269506635
ZNF735|730291	ZNF735	0.040213	3.774277312

Appendix 2.7 – Specific genes for lung cancer.

Gene	**Gene_Symbol**	***pvalue*_adjust**	**log_2(Foldchange)**
ADAMTS20|80070	ADAMTS20	0.0271	3.539885
AGBL1|123624	AGBL1	1.13E-11	-2.28412
ALX1|8092	ALX1	0.030313	2.123182
BARX1|56033	BARX1	2.19E-06	2.795123
BOLL|66037	BOLL	0.000887	4.332272
BPIL1|80341	BPIL1	0.00145	1.654253
BRDT|676	BRDT	0.000419	2.704529
C12orf42|374470	C12orf42	2.23E-06	1.850159
C14orf39|317761	C14orf39	0.000306	2.064444
C17orf102|400591	C17orf102	0.013819	1.961438
C1QL2|165257	C1QL2	6.18E-05	2.73964
C7orf52|375607	C7orf52	0.000169	2.416721
CDX2|1045	CDX2	0.003308	2.151169
CNTD2|79935	CNTD2	1.78E-09	1.590586
COX6B2|125965	COX6B2	4.44E-10	2.58956
CRH|1392	CRH	2.27E-06	-1.95684
CXorf1|9142	CXorf1	8.43E-09	-2.83995
DCAF12L2|340578	DCAF12L2	0.00275	1.948389
DGKK|139189	DGKK	2.14E-08	-2.0988
DLX1|1745	DLX1	0.000231	2.263473
DMRT1|1761	DMRT1	0.000754	5.241954
DMRT3|58524	DMRT3	0.000278	1.688492
DUSP9|1852	DUSP9	1.02E-07	2.171052
ECEL1|9427	ECEL1	1.73E-09	2.209588
EDN3|1908	EDN3	3.34E-09	-1.75491
EMX1|2016	EMX1	0.000435	2.394399
FAM163A|148753	FAM163A	1.09E-07	1.688127

FAM83A|84985	FAM83A	1.32E-11	1.67778
FLJ12825|440101	FLJ12825	9.67E-09	1.733627
FOXE1|2304	FOXE1	6.35E-06	2.225499
FOXE3|2301	FOXE3	6.15E-05	2.777738
FOXI3|344167	FOXI3	1.77E-06	5.256634
FOXL2|668	FOXL2	0.024668	2.648408
FSD1|79187	FSD1	5.94E-08	1.782509
FUT9|10690	FUT9	2.18E-07	4.234433
GABRA1|2554	GABRA1	0.001202	-1.71841
GDNF|2668	GDNF	0.009387	1.908917
GPR50|9248	GPR50	0.009866	4.842363
GSG1L|146395	GSG1L	2.49E-08	-1.85582
GUCA1A|2978	GUCA1A	1.38E-05	2.404105
HBG1|3047	HBG1	1.00E-08	-2.18188
HBG2|3048	HBG2	3.91E-10	-2.41944
HIST1H2BI|8346	HIST1H2BI	0.005519	4.280954
HIST1H3B|8358	HIST1H3B	3.43E-05	3.597799
HIST1H4E|8367	HIST1H4E	0.000133	1.833036
HOXA11|3207	HOXA11	0.002547	2.259536
HOXC10|3226	HOXC10	1.53E-05	3.069416
HOXC13|3229	HOXC13	2.21E-06	4.523225
HOXD11|3237	HOXD11	0.002446	4.041436
IL22RA2|116379	IL22RA2	6.08E-10	2.528675
KCNA7|3743	KCNA7	5.87E-05	3.05117
KCNK12|56660	KCNK12	4.04E-07	1.962147
KREMEN2|79412	KREMEN2	2.92E-10	1.630464
KRT16|3868	KRT16	7.52E-09	2.514821
LCE2A|353139	LCE2A	0.000403	-1.77562
MAGEA2|4101	MAGEA2	0.015988	2.699501
MAST1|22983	MAST1	5.26E-17	1.526764
MMP13|4322	MMP13	2.16E-10	2.457104
NGB|58157	NGB	0.006976	4.136496
NKX6-1|4825	NKX6-1	0.005067	1.743465
NPBWR1|2831	NPBWR1	0.018619	1.731379
NR2E1|7101	NR2E1	1.06E-06	4.473389
ONECUT2|9480	ONECUT2	1.69E-08	1.707693
OPRD1|4985	OPRD1	0.036097	4.290871
OR2B11|127623	OR2B11	0.000591	-1.98395
OR5P2|120065	OR5P2	1.95E-05	-2.35885
OR6K3|391114	OR6K3	1.13E-11	-3.04394
OR6N1|128372	OR6N1	2.42E-07	-2.9872
OTX2|5015	OTX2	0.039275	3.590097
OVCH1|341350	OVCH1	1.34E-10	-2.31209
OXT|5020	OXT	0.015681	1.669797
PGLYRP1|8993	PGLYRP1	4.11E-08	-2.27638
PHOX2A|401	PHOX2A	0.049856	3.333794
PITX2|5308	PITX2	9.83E-11	5.551558

PNPLA5|150379	PNPLA5	0.007428	4.380352
POU4F1|5457	POU4F1	9.34E-07	3.036814
PRKCG|5582	PRKCG	0.000136	1.619785
PTPRH|5794	PTPRH	2.21E-10	1.775741
S100A7|6278	S100A7	0.010802	2.784087
SALL1|6299	SALL1	0.000957	2.108
SALL3|27164	SALL3	0.009142	2.771208
SIM1|6492	SIM1	0.020334	3.221569
SIRPD|128646	SIRPD	1.75E-11	-1.65965
SLC4A1|6521	SLC4A1	2.65E-11	-2.12186
SNTG1|54212	SNTG1	0.04333	-1.81464
SPATA19|219938	SPATA19	0.022817	-2.23189
SRY|6736	SRY	1.78E-08	-3.09988
SSTR4|6754	SSTR4	2.20E-13	-3.47001
SYT14|255928	SYT14	0.000461	2.599139
T|6862	T	3.29E-05	3.800893
TAF7L|54457	TAF7L	6.33E-06	2.076022
TBR1|10716	TBR1	0.037679	2.471108
TFAP2D|83741	TFAP2D	5.27E-05	6.177428
UCP1|7350	UCP1	0.000345	-2.02828
VSX1|30813	VSX1	1.91E-05	2.482444
ZIC4|84107	ZIC4	0.022851	3.870973
ZPBP2|124626	ZPBP2	0.008553	2.306343