

**Supplemental Table S5.** NCBI Refseq genes with a greater representation of promoter and coding region DHS in HEE and HTE cells than the five background cell types combined. (Expression levels from Nimblegen 4 x 60K gene expression microarray). DHS from the Hela S3 epithelial cell line instead of K562 were subtracted from this data set.

Genes Shared (Sorted)			
Gene Name	Gene RefSeq	Epid Exp	TE Exp
ACTBL2	NM_001017992	8.069193333	6.83282
ACVR2A	NM_001616	8.730503333	9.401385
ADAM28	NM_021777	9.522073333	9.3238925
ADAM7	NM_003817	6.09283	5.278945
ADAMTS19	NM_133638	4.163113333	5.032245
ADAMTS20	NM_025003	5.879003333	6.244205
AK3	NM_016282	11.52997333	11.434975
ANKK1	NM_178510	6.58015	7.37709
ANKRD20A4	NM_001098805	*	*
ANXA8L2	NM_001630	10.66552333	15.16625
APLF	NM_173545	6.54479	6.401225
AQP4	NM_004028	4.734376667	5.35759
ART3	NM_001179	3.85165	5.018255
ATF5	NM_012068	12.48236667	13.00015
ATOH1	NM_005172	6.83708	9.01169
ATP13A4	NM_032279	5.27979	8.3504
ATP13A5	NM_198505	5.69588	7.21511
BARX2	NM_003658	8.85065	10.142245
BAZ2B	NM_013450	9.433616667	9.12264
BMP2	NM_001200	9.834646667	7.632695
BMPR1B	NM_001203	10.42898667	9.983985
C10orf113	NM_001177483	4.716356667	5.08054
C10orf57	NM_025125	10.6564	11.099945
C11orf65	NM_152587	6.857273333	7.77869
C11orf93	NM_001136105	7.542083333	10.535725
C12orf29	NM_001009894	8.96963	9.548995
C12orf39	NM_030572	10.29660333	7.034685
C13orf31	NM_153218	9.10155	8.341395
C14orf101	NM_017799	11.63282667	11.44763
C17orf77	NM_152460	5.79319	6.07561
C18orf62	NM_001037331	9.889626667	8.113605
C1QTNF7	NM_031911	5.410456667	6.59393
C2orf40	NM_032411	5.505043333	5.403615
C3orf30	NM_152539	5.78657	8.332445
C3orf63	NM_015224	9.82459	9.49665

C4orf39	NM_153027	5.94499	5.541275
C5orf43	NM_001048249	7.626503333	7.36838
C6	NM_001115131	6.61537	8.48318
C6orf138	NM_207499	9.338243333	7.875975
C7	NM_000587	4.50509	5.12205
C9orf123	NM_033428	8.842363333	8.179175
CA3	NM_005181	6.083006667	5.254765
CALCB	NM_000728	6.07011	6.654455
CALCR	NM_001742	4.266076667	4.984715
CALCRL	NM_005795	7.520716667	6.41602
CCDC11	NM_145020	6.082136667	7.445045
CCDC66	NM_001141947	9.52786	9.330405
CCDC67	NM_181645	4.486743333	6.81278
CCNA1	NM_003914	10.56602333	9.648305
CCNG2	NM_004354	12.53879667	13.09432
CDH12	NM_004061	4.360436667	5.65222
CDH18	NM_004934	6.319633333	5.482075
CDS1	NM_001263	9.424953333	11.728725
CEACAM3	NM_001815	9.43057	12.69175
CGB5	NM_033043	9.32702	8.901765
CGGBP1	NM_003663	11.65173667	11.569585
CHL1	NM_006614	10.50297667	9.53591
CHST9	NM_031422	9.395873333	8.67163
CLCA4	NM_012128	5.616803333	12.036785
CLDN25	NM_001101389	5.85886	7.26823
CLEC18B	NM_001011880	8.704683333	7.893225
CNDP2	NM_018235	14.15377667	10.54087
CNTN1	NM_175038	7.37438	8.073015
COL21A1	NM_030820	4.880486667	6.88939
CPEB2	NM_182646	9.55647	11.307885
CRISPLD1	NM_031461	7.406186667	6.207585
CRYGD	NM_006891	7.004726667	5.75637
CSMD1	NM_033225	6.88385	6.28079
CST11	NM_130794	6.17327	5.651845
CWH43	NM_025087	4.54235	6.313845
CXCL1	NM_001511	13.21966333	12.388935
CXCL14	NM_004887	7.81933	12.63403
CXCL3	NM_002090	11.10666667	8.24825
CXorf22	NM_152632	3.925833333	4.700705
CXorf57	NM_018015	5.256323333	7.88238
CYP2J2	NM_000775	8.61358	9.265115

CYP39A1	NM_016593	7.496613333	6.24118
CYP4B1	NM_001099772	6.764783333	8.98142
CYP4X1	NM_178033	5.860453333	10.003795
DAPL1	NM_001017920	7.38351	9.17009
DDIT4L	NM_145244	10.41877667	7.164355
DEFB110	NM_001037728	4.42562	4.90197
DEFB125	NM_153325	7.41848	6.260385
DEFB4A	NM_004942	7.676706667	7.63967
DENND2C	NM_198459	5.900953333	10.231145
DIRAS2	NM_017594	4.672206667	4.553535
DNM1L	NM_012063	12.62181667	12.11321667
DPY19L2	NM_173812	8.71714	6.107365
DSC2	NM_024422	10.06863	12.3417
DSC3	NM_024423	4.917396667	13.09876
DSEL	NM_032160	8.011056667	6.58966
DSG3	NM_001944	6.266193333	12.48767
DYDC1	NM_138812	4.651786667	5.902485
DYDC2	NM_032372	4.634616667	5.103495
DYNLRB2	NM_130897	5.68312	6.110545
EDIL3	NM_005711	11.744	8.241255
EFCAB1	NM_024593	6.05365	7.707335
ELAVL2	NM_004432	6.84502	5.700865
ENPP5	NM_021572	7.866266667	7.850805
ENTPD3	NM_001248	10.49581333	12.46067
EPHA7	NM_004440	7.388303333	5.10189
ERP27	NM_152321	6.11078	7.290685
EYA1	NM_172060	4.799046667	8.94867
F8A3	NM_001007524	*	*
FAM110C	NM_001077710	10.41079667	9.94275
FAM117B	NM_173511	8.077053333	7.6758
FAM153C	NM_001079527	*	*
FAM169A	NM_015566	*	*
FAM183A	NM_001101376	4.980273333	9.03901
FAM83B	NM_001010872	10.27930667	10.261605
FAM84A	NM_145175	10.51916333	10.249965
FBN2	NM_001999	8.916773333	9.449785
FBXO8	NM_012180	7.260073333	7.62431
FGF20	NM_019851	3.466806667	4.305195
FGF9	NM_002010	10.81442667	6.54429
FGFBP1	NM_005130	11.26569	15.02352
FGL1	NM_201553	6.042663333	4.9983375

FLRT2	NM_013231	6.393956667	8.764455
FOLH1	NM_004476	7.617233333	8.6199675
FOLH1B	NM_153696	7.199763333	7.821425
FREM2	NM_207361	10.00802333	6.75432
FZD6	NM_003506	12.45606333	12.926045
GABRG3	NM_033223	5.587266667	7.616405
GDA	NM_004293	11.48084	7.19519
GJA1	NM_000165	12.31350667	12.821655
GJB5	NM_005268	6.72231	11.68649
GPR111	NM_153839	5.467583333	5.9745
GRXCR1	NM_001080476	5.888733333	6.37243
GUCA1C	NM_005459	5.8121	5.27306
GUCY1A2	NM_000855	7.48635	7.64223
GYS2	NM_021957	7.161156667	7.33584
H2AFB3	NM_080720	*	*
HHIP	NM_022475	9.794453333	4.88151
HHLA2	NM_007072	5.123023333	6.7911
HIST1H2AG	NM_021064	6.47545	5.07573
HIST1H2BJ	NM_021058	3.884056667	5.340975
HLA-G	NM_002127	9.8814	10.273635
HMGB2	NM_002129	8.727066667	8.28392
HMGCLL1	NM_019036	4.57281	4.50821
HPGD	NM_001145816	9.401013333	8.25736
HRASLS	NM_020386	8.909063333	9.05415
HRG	NM_000412	5.290763333	5.74779
HTR1B	NM_000863	6.56779	6.499335
IFNK	NM_020124	4.817246667	8.532695
IFT57	NM_018010	6.803266667	6.588315
IL1F10	NM_173161	9.28121	7.2233475
IL1RAP	NM_134470	8.428566667	8.244805
INTS12	NM_020395	11.16671333	12.01615
IQCF1	NM_152397	6.116106667	6.38671
IRAK1BP1	NM_001010844	9.606626667	6.357615
KCNC2	NM_153748	4.016113333	5.637091667
KCNJ5	NM_000890	7.506706667	10.83195
KCNV1	NM_014379	4.49178	5.02032
KCTD4	NM_198404	8.877496667	6.497035
KHDRBS2	NM_152688	4.784996667	5.40383
KLRC1	NM_213658	5.15463	5.336833333
KLRC3	NM_007333	4.40324	5.26202
KLRK1	NM_007360	5.378533333	5.032745

KRT24	NM_019016	5.02987	10.709845
KRT27	NM_181537	4.50308	5.489855
KRT31	NM_002277	7.35927	9.941685
KRT37	NM_003770	6.92469	7.340675
KRT5	NM_000424	11.02139667	15.76723
KRT6A	NM_005554	10.36125333	15.748045
KRT71	NM_033448	7.64365	5.817405
KRTAP2-4	NM_033184	4.274023333	5.036965
KRTAP4-7	NM_033061	4.630396667	5.47453
KRTAP4-9	NM_001146041	*	*
LINGO2	NM_152570	7.6351	5.36444
LMO3	NM_018640	4.546366667	5.522015
LOC389493	NM_001145712	*	*
LOC730755	NM_001165252	*	*
LPHN3	NM_015236	10.91411333	5.347195
LRAT	NM_004744	6.60896	5.67938
LRRC3B	NM_052953	4.06671	4.808025
LRRC66	NM_001024611	6.800823333	7.04454
LRRN1	NM_020873	11.38233667	10.49871
LYG2	NM_175735	6.665983333	6.099285
LYZL4	NM_144634	6.859406667	7.261845
MAEL	NM_032858	7.005006667	5.741415
MAGEE2	NM_138703	6.819833333	6.45914
MCM9	NM_153255	5.967956667	7.131725
MEP1A	NM_005588	6.500013333	8.12878
MFSD1	NM_022736	11.55478333	12.3856
MFSD6L	NM_152599	7.97743	7.317695
MGAM	NM_004668	9.41074	8.230015
MINA	NM_153182	11.67571	11.2177725
MOS	NM_005372	5.013323333	5.87645
MPPED2	NM_001584	4.97484	5.406955
MUM1L1	NM_152423	5.078156667	5.728975
NECAB1	NM_022351	8.59323	6.43013
NEDD1	NM_152905	11.63934667	9.75054
NEK3	NM_001146099	10.22516333	9.25709
NOX4	NM_016931	8.545666667	5.69181
NPFFR2	NM_053036	10.25931	5.82842
NUS1	NM_138459	13.77609667	13.40878
ODF2L	NM_020729	9.949363333	8.956075
OPRM1	NM_001145287	6.31322	6.4375425
OR52M1	NM_001004137	8.596756667	7.77045

OSBPL6	NM_145739	7.958546667	9.04609
OXGR1	NM_080818	3.722506667	4.63972
PAPD4	NM_173797	11.49856667	11.759015
PCDH7	NM_032457	6.637556667	8.401675
PCDHAC2	NM_031883	8.303953333	6.244135
PCSK5	NM_006200	13.94123667	10.31702
PDCD5	NM_004708	12.11428	12.993845
PDPN	NM_198389	12.48838667	13.89192
PELI1	NM_020651	9.488613333	9.087135
PHYHIPL	NM_032439	3.752473333	5.503185
PIK3C2G	NM_004570	5.739816667	5.719945
PKP2	NM_004572	9.912643333	12.287155
PLBD1	NM_024829	10.91702	12.27064
PLCZ1	NM_033123	4.065086667	4.90241
PLS1	NM_002670	11.09314	11.12484
PRKCQ	NM_006257	9.6798	8.85415
PRRG4	NM_024081	10.08126333	13.05982
PRSS54	NM_001080492	4.697146667	5.008025
PTHLH	NM_198966	11.73952333	14.96137833
PTPRD	NM_130393	12.39274667	7.6164
PTPRZ1	NM_002851	3.973356667	10.08715
RAB32	NM_006834	12.16122	11.582055
RAB38	NM_022337	10.41032333	13.197265
RAD52	NM_134424	9.410536667	9.02462
RASGEF1B	NM_152545	7.42119	7.01997
RASSF10	NM_001080521	10.12547333	6.118145
RBP2	NM_004164	5.649246667	7.43861
RFX7	NM_022841	8.977626667	9.94161
RGPD6	NM_001123363	*	*
RNF175	NM_173662	7.468826667	8.343875
RNF2	NM_007212	7.24682	7.38139
RNPC3	NM_017619	10.94241333	11.771865
RPE65	NM_000329	3.769826667	5.0523
RRM2B	NM_015713	10.42678	11.203575
S100A12	NM_005621	5.039206667	8.409455
SAP30	NM_003864	9.924806667	9.965805
SATB1	NM_002971	7.68808	9.26758
SCEL	NM_144777	13.17517	14.0761
SCGB2A1	NM_002407	5.88642	5.913205
SCN2A	NM_021007	4.337046667	4.74905
SCN3A	NM_006922	3.8859	4.997805

SDR16C5	NM_138969	5.452346667	10.178005
SERF1A	NM_022968	10.34925333	9.34901
SERF1B	NM_022978	*	*
SERINC1	NM_020755	12.90449333	12.256545
SERPINB3	NM_006919	8.31625	14.35049
SERPINB4	NM_002974	5.86783	12.94
SERPINB7	NM_003784	4.18119	13.010615
SES3	NM_144665	9.48257	11.97292
SIPA1L2	NM_020808	11.85162667	9.838925
SIRPB2	NM_001134836	6.947126667	9.707925
SLC10A2	NM_000452	5.8844	4.76383
SLC12A2	NM_001046	9.72207	10.243415
SLC15A5	NM_001170798	*	*
SLC16A9	NM_194298	6.782086667	9.98083
SLC17A6	NM_020346	3.870706667	4.922945
SLC26A7	NM_134266	5.34671	5.117265
SLC29A4	NM_153247	10.68930667	7.650645
SLC35A5	NM_017945	11.81831667	11.39886
SLC5A1	NM_000343	6.606013333	7.84092
SLC5A7	NM_021815	3.887013333	4.990015
SLC6A15	NM_182767	5.090433333	8.691775
SLC6A8	NM_005629	12.99914667	12.837425
SLC7A3	NM_032803	4.45648	5.488075
SLITRK5	NM_015567	6.24441	6.39942
SLITRK6	NM_032229	5.186656667	8.08181
SLN	NM_003063	9.97346	6.8363
SMARCAD1	NM_020159	8.6949	10.212175
SNTG2	NM_018968	5.470396667	6.87619
SORCS3	NM_014978	6.881363333	6.30426
SOSTDC1	NM_015464	11.40014667	6.827585
SPCS3	NM_021928	10.35608667	9.688255
SPINK6	NM_205841	3.74003	5.16761
SPOCK3	NM_016950	3.942303333	6.936455
SRD5A2	NM_000348	4.226886667	5.44109
SSFA2	NM_006751	12.34941333	12.520845
SST	NM_001048	8.951036667	7.180285
ST6GAL2	NM_032528	10.38855667	7.694645
ST8SIA4	NM_175052	7.2343	4.9830375
STK32A	NM_145001	4.240746667	7.28586
SULT1E1	NM_005420	7.054636667	8.46898
SYCP2	NM_014258	4.42777	5.469715

TAB2	NM_015093	11.98417333	11.505655
TAS2R14	NM_023922	6.39324	6.62417
TCEAL3	NM_032926	12.24000333	12.0566075
TDRD6	NM_001168359	5.29416	7.252165
TEDDM1	NM_172000	4.831476667	5.401435
TFCP2L1	NM_014553	10.54521	12.22148
TFPI2	NM_006528	13.84152	11.590905
TLL1	NM_012464	7.53516	5.040215
TMEM207	NM_207316	3.908143333	5.591435
TMPRSS11A	NM_182606	3.521186667	5.43044
TMPRSS11E	NM_014058	5.089206667	13.11672
TMPRSS11F	NM_207407	4.110846667	9.422205
TOX3	NM_001146188	10.49441333	7.84675
TP53AIP1	NM_022112	8.77534	9.63656
TRIM68	NM_018073	10.26056667	10.154115
TRPC1	NM_003304	8.003906667	7.78144
TRPM3	NM_206948	9.176156667	5.893175
TTC29	NM_031956	5.954533333	5.2574
TUSC1	NM_001004125	9.654203333	12.025205
UCP1	NM_021833	5.690673333	7.51818
UFM1	NM_016617	12.42937	13.11457
UGT1A1	NM_000463	13.31664667	13.983455
UGT2B15	NM_001076	12.19812333	7.08356
UGT2B7	NM_001074	10.94426667	5.777145
UNC13C	NM_001080534	3.746846667	4.35839
UPK1B	NM_006952	10.02635667	11.978865
USP43	NM_153210	10.41370333	9.86906
USP51	NM_201286	8.464683333	8.1052
WDR43	NM_015131	9.78363	11.20869
WDR72	NM_182758	10.69282	7.898405
WIF1	NM_007191	3.949286667	5.033465
XAGE3	NM_133179	7.947006667	6.59945
YTHDC1	NM_133370	13.18628333	13.32953
ZBED2	NM_024508	11.2449	11.90485
ZFP2	NM_030613	8.757306667	7.45263
ZFP42	NM_174900	9.20709	9.27113
ZFP57	NM_001109809	7.511043333	8.006545
ZNF177	NM_003451	8.094753333	8.4056
ZNF22	NM_006963	10.35192667	9.09407
ZNF257	NM_033468	9.086206667	6.435435
ZNF347	NM_032584	7.936873333	7.233375



ZNF433	NM_001080411	9.12931	8.671205
ZNF470	NM_001001668	9.378056667	8.71214
ZNF626	NM_145297	10.28107667	9.49131
ZNF662	NM_207404	8.53554	8.97512
ZNF879	NM_001136116	*	*
ZP4	NM_021186	4.89231	6.037375
*Probes for these genes are not included on the Nimblegen 4 x 60K gene expression microarray			