| Scale<br>chrY:<br>All SNPs(150)   | 5 kbl  24,330,000 l  Simple Nucleotide Polymorphisms (dbSNP 150)  lincRNA and TUCP transcripts  UCSC Genes (RefSeq, GenBank, CCDS, Rfam, tRNAs & Comparative Genomics)                     |
|---|--|
| RBMY15<br>RBMY15<br>RBMY15  |  |
| 0 _<br>150 _<br>Layered H3K4Me3<br>0 _  | H3K4Me3 Mark (Often Found Near Promoters) on 7 cell lines from ENCODE  CpG Islands (Islands < 300 Bases are Light Green)   |
| Layered H3K27Ac  0 1  | CpG Islands (Islands < 300 Bases are Light Green) CpG: 30 H3K27Ac Mark (Often Found Near Active Regulatory Elements) on 7 cell lines from ENCODE  Human_Sperm_Meth                         |
| 93A 0 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1   | Human_93A_Meth  Human_93N_Meth   |
| 93N<br>0<br>1<br>Epidermis-old-sun-expo<br>0<br>1   | Human_Epidermis-old-sun-exposed_Meth  Human_Epidermis-old-sun-protected_Meth   |
| Epidermis-old-sun-prote 0 1 Epidermis-young-sun-e> 0 1  | Human_Epidermis-young-sun-exposed_Meth  Human_Epidermis-young-sun-protected_Meth   |
| Epidermis-young-sun-pr<br>0<br>1<br>Buccals   | Human_Buccals_Meth  Human_Sperm_Meth   |
| Sperm 0   | Human_HSC_Meth  Distinct Human DNA Methylomes from Different Ages, Heyn 2012: Human_CD4T-100yr_Meth  |
| CD4T-100yr  | Distinct Human DNA Methylomes from Different Ages, Heyn 2012 : Human_CD4T-Newborn_Meth   |
| PBMC 0  | Changes in Human Hematopoietic Stem Cells, Hodges 2011 : Human_CD133HSC_Meth  Roadmap 2015 : Human_Macrophage_Meth   |
| Macrophage  | Roadmap 2015 : Human_NK_Meth  Human_Macrophage_Meth  |
| Macrophage  | Human_NK_Meth Human_BCell_Meth   |
| BCell 0 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1   | Human_CD133HSC_Meth  Human_Thymus_Meth   |
| Thymus  | Human_HSPC_Meth  Human_Neut_Meth   |
| Neut 0 _ 1 _ Tcell 0 _ 1  | Human_Tcell_Meth    Human_BloodHealthy_Meth  |
| BloodHealthy  0 - 1 - BloodALLL2  | Human_BloodALLL2_Meth  Human_BloodALLL1_Meth   |
| BloodALLL1  0 1 Spleen  0   | Human_Spleen_Meth  |
| Adipose 1   | Human_Adipose_Meth    Human_Lung_Meth  |
| Mesenchymal 0 1 _ H1  | Human_Mesenchymal_Meth   |
| H1BMP4 1 _ 0 1 _ 1 _ H1-mesendoderm 0 _ 1 _ | Human_H1BMP4_Meth  Human_H1-mesendoderm_Meth  Human_H1-NPC_Meth  |
| H1-NPC  | Human_IMR90_Meth   |
| LNCaP 1 _ No data _ No data No data   | UCSD Adipose Tissue Bisulfite-Seq Donor STL003 EA Release 9  |
| PreC 0.958333 _ AL BS 3 11  | Human_PreC_Meth  BI Adult Liver Bisulfite-Seq Donor 3 Library WGBS_Lib 11 EA Release 8   |
| 0.692308 _ 1 _ Aorta BS 03  | UCSD Aorta Bisulfite-Seq Donor STL003 EA Release 9  Human_Fetal-Heart_Meth   |
| Fetal-Heart 0 1 - 1 - Esophagus BS 03 0.777778 -  | UCSD Esophagus Bisulfite-Seq Donor STL003 EA Release 9   |
| Liver  O No data _  FML BS 96 66  No data _   | BI Fetal Muscle Leg Bisulfite-Seq Donor UW H24996 Library WGBS_Lib 66 EA Release 9   |
| Mesoderm  O No data  T No data  T No data   | Human_Mesoderm_Meth  BI Fetal Thymus Bisulfite-Seq Donor UW H24943 Library WGBS_Lib 65 EA Release 9  |
| No data _ 1 _ PSAGastric 0 _ 1 1 _ Gastric BS 03  | Human_PSAGastric_Meth  UCSD Gastric Bisulfite-Seq Donor STL003 EA Release 9  |
| 0.666667 _<br>1 _<br>Adrenal-gland<br>0 _<br>0.526316 _   | Human_Adrenal-gland_Meth  UCSD Left Ventricle Bisulfite-Seq Donor STL001 EA Release 9  |
| LV BS 01  0 _ 1 _                 | Human_BipolarGastric_Meth  UCSD Left Ventricle Bisulfite-Seq Donor STL003 EA Release, 9  |
| LV BS 03<br>0.428571<br>1 _<br>Bladder  | Human_Bladder_Meth   |
| No data _<br>Lung BS 02<br>No data _<br>1 _<br>Endoderm   | UCSD Lung Bisulfite-Seq Donor STL002 EA Release 9  Human_Endoderm_Meth   |
| No data _<br>Ovary BS 02<br>No data _<br>1 _<br>Esophagus   | UCSD Ovary Bisulfite-Seq Donor STL002 EA Release 9  Human_Esophagus_Meth   |
| 0 _ 1 _ Pancreas BS 03  | UCSD Pancreas Bisulfite-Seq Donor STL003 EA Release 9  Human_Fetal_Adrenal-gland_Meth  |
| Fetal-Adrenal-gland 0 1 PM BS 03 0.6  | UCSD Psoas Muscle Bisulfite-Seq Donor STL003 EA Release 9  |
| Fetal-Intestine-Large 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   | UCSD Right Atrium Bisulfite-Seq Donor STL003 EA Release 9  |
| Fetal-Spinal-Cord 0 0.25 _ RV BS 03   | Human_Fetal-\$pinal-Cord_Meth  UCSD Right Ventricle Bisulfite-Seq Donor STL003 EA Release 9  |
| Fetal-Stomach 0 _ 1                 | Human_Fetal-Stomach_Meth  UCSD Sigmoid Colon Bisulfite-Seq Donor STL001 EA Release 9   |
| 0.5 _<br>H1-BMP4<br>0<br>1 _  | Human_H1-BMP4_Meth  UCSD Sigmoid Colon Bisulfite-Seq Donor STL003 EA Release 9   |
| SC BS 03<br>0.333333 _ 1 _ 1 _ H1-Mesenchymal   | . Human_H1-Mesenchymal_Meth  UCSD Small Intestine Bisulfite-Seq Donor STL001 EA Release 9  |
| SI BS 01 0.444444 1 H1-Mesendoderm 0 0  | . Human_H1-Mesendoderm_Meth  |
| Spleen BS 03<br>0.916667 _<br>H1-NP   | UCSD Spleen Bisulfite-Seq Donor STL003 EA Release 9  Human_H1-NP_Meth  |
| 0<br>1<br>Thymus BS 01<br>0.857143 _<br>1   | UCSD Thymus Bisulfite-Seq Donor STL001 EA Release 9  Human_H9_Meth   |
| Brain Methyl 2  | DNA methylation in brain tissue (bigWig)  Human_HealthyGastric_Meth  |
| HealthyGastric  0 1 Kidney Methyl 2   | DNA methylation in kidney tissue (bigWig)  |
| Heart-Aorta  0 1 - Placenta1 Methyl 2  0 0  | Human_Heart-Aorta_Meth  DNA methylation in placenta (biological replicate 1) (bigWig)  |
| IMR90  O _ 1 _ 1 _ 1 _ 1 _ 1 _ 1 _ 1 _ 1 _ 1 _  | Human_IMR90_Meth  DNA methylation in placenta (biological replicate 2) (bigWig)  |
| 0 _ 1                         | Human_IPSFF69_Meth  DNA methylation in placenta (biological replicate 3) (bigWig)  |
| Left-ventrical  | Human_Left-ventrical_Meth  Human_Ovary_Meth  |
| Ovary  0 1 Placenta  0 1 Psoas-muscle   | Human_Placenta_Meth  Human_Psoas-muscle_Meth   |
| Psoas-muscle  0 1 _                 | Human_Right-atrium_Meth Human_Right-ventrical_Meth   |
| Sigmoid-Colon  Small-intestine  | Human_Sigmoid-Colon_Meth  Human_Small-intestine_Meth   |
| fMuscle-leg  o fMuscle-trunk  | Human_fMuscle-leg_Meth  Human_fMuscle-trunk_Meth   |
| No data _ No data _ No data _   | SNPedia all SNPs (including empty pages)  IMR90 Cell Line DNA Methylation by Bisulfite-seq Signal from REMC/UCSD (Library:methylC-seq_imr90_r1a)   |
| MCF7 1 _ 0 _ 1 _ ColonCancer 0  | Human_MCF7_Meth  focal DNA hypermethylation and long-range hypomethylation in colorectal cancer, Berman 2012 : Human_ColonCancer_Meth  |
| ColonCancer 0   | Increased methylation variation in epigenetic domains across cancer types. : Human_ColonCancer_Meth  Human Breast Cancer, Hon 2012 : Human_HCC1954_Meth  TargetScan miRNA Regulatory Sites |
| Sperm 1 0 1                         | TargetScan miRNA Regulatory Sites Sperm Methylation Profiles of Human and Chimp, Molaro 2011 Human_Sperm_Meth Human_HUES64_Meth  |
| HUES64 0<br>HCC1954<br>HCC1954  | Human Breast Cancer, Hon 2012  Human_HCC1954_Meth  |
| HMEC  O  DNase Clusters   | Human Breast Cancer, Hon 2012  Human_HMEC_Meth  DNasel Hypersensitivity Clusters in 125 cell types from ENCODE (V3)  |
| DNase Clusters Txn Factor ChIP LNG.IMR90 LNG.IMR90  | Transcription Factor ChIP-seq (161 factors) from ENCODE with Factorbook Motifs chromHMM tracks from Roadmap  |