



GM12878: B-lymphocyte
 H1-hESC: embryonic stem cell
 K562: leukemia cell
 HepG2: hepatocellular carcinoma cell
 HUVEC: umbilical vein endothelial cells
 HMEC: mammary epithelial cells
 HSMM: skeletal muscle myoblasts
 NHEK: epidermal keratinocytes
 NHLF: lung fibroblasts
 AL: Adult Liver
 BHM: Brain Hippocampus Middle

Chromatin State Segmentation by HMM from ENCODE/Broad

- **Bright Red** - Active Promoter
- **Light Red** - Weak Promoter
- **Purple** - Inactive/poised Promoter
- **Orange** - Strong enhancer
- **Orange** - Strong enhancer
- **Yellow** - Weak/poised enhancer
- **Yellow** - Weak/poised enhancer
- **Blue** - Insulator
- **Dark Green** - Transcriptional transition
- **Dark Green** - Transcriptional elongation
- **Light Green** - Weak transcribed
- **Gray** - Polycomb-repressed
- **Light Gray** - Heterochromatin; low signal
- **Light Gray** - Repetitive/Copy Number Variation
- **Light Gray** - Repetitive/Copy Number Variation

Chromatin Primary Core Marks Segmentation by HMM from Roadmap Project

- **Red** - TssA (Active_TSS)
- **OrangeRed** - TssAFlnk (Flanking_Active_TSS)
- **LimeGreen** - TxFlnk (Transcr_at_gene_5_and_3primer)
- **Green** - Tx (Strong_transcription)
- **DarkGreen** - TxWk (Weak_transcription)
- **GreenYellow** - EnhG (Genic_enhancers)
- **Yellow** - Enh (Enhancers)
- **MediumAquamarine** - ZNF/Rpts (ZNF_genes&repeats)
- **PaleTurquoise** - Het (Heterochromatin)
- **IndianRed** - TssBiv (Bivalent/Poised_TSS)
- **DarkSalmon** - BivFlnk (Flanking_Bivalent_TSS/Enh)
- **DarkKhaki** - EnhBiv (Bivalent_Enhancer)
- **Silver** - ReprPC (Repressed_PolyComb)
- **Gainsboro** - ReprPCWk (Weak_Repressed_PolyComb)
- **White** - Quies (Quiescent/Low)