De novo L1 vs Polymorphic L1
Integration site Threshold 100 H2AFZ 100 H3K27ac 100 H4K20me1 100 H3K36me3 100 H3K4me1 100 H3K4me2 100 H3K4me3 100 H3K79me2 100 H3K9ac H3K9me3 H3K27me3 8 CTCF 100 100 DNase hypersensitive sites RNA Pol2 100 100 G Quadruplexes 100 A-phased repeats Direct repeats 100 100 Inverted repeats Mirror repeats 100 Z DNA motifs 2 100 Most conserved element Features 100 Exons 100 Introns 100 GC content 100 AT content 100 Mononucleotides 100 Microsatellites di- tri- tetra-nucleotide 100 DNA transposons 100 Alu MIR 6 100 LTR elements L1 target motifs 100 100 L2 and L3 100 CpG islands 5-hydroxymethylcytosine 100 Sperm hypomethylation 100 100 Replication origin Sex-averaged recombination hotspots 6 hESC exon expression 6 100 hESC gene expression 8 hESC transcript expression 100 Testis expression 100 CHH Methylation 100 CHG Methylation CPG Methylation

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0087 + 0644 + 0644 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 + 0666 +