

Modification	Brd2	Brd3	Brd4	HP1 α	HP1 β	Genomic
H3K4me1	34.73% $\pm$ 0.73%	21.83% $\pm$ 2.33%	24.79% $\pm$ 3.46%	4.37% $\pm$ 1.75%	13.75% $\pm$ 1.52%	14.17% $\pm$ 0.54%
H3K4me2	8.68% $\pm$ 2.47%	3.37% $\pm$ 1.13%	2.48% $\pm$ 0.25%	0.03% $\pm$ 0.01%	0.02% $\pm$ 0.01%	0.70% $\pm$ 0.17%
H3K4me3	3.20% $\pm$ 0.36%	0.94% $\pm$ 0.20%	0.53% $\pm$ 0.12%	0.01% $\pm$ 0.00%	0.01% $\pm$ 0.01%	0.14% $\pm$ 0.01%
H3K9me1	27.80% $\pm$ 2.62%	23.81% $\pm$ 2.41%	23.27% $\pm$ 1.84%	9.62% $\pm$ 0.98%	7.74% $\pm$ 1.02%	21.85% $\pm$ 2.88%
H3K9me2	25.13% $\pm$ 1.17%	30.45% $\pm$ 2.97%	35.13% $\pm$ 2.37%	47.09% $\pm$ 0.44%	43.46% $\pm$ 1.63%	31.08% $\pm$ 2.01%
H3K9me3	8.53% $\pm$ 1.05%	12.96% $\pm$ 0.86%	12.12% $\pm$ 0.58%	35.64% $\pm$ 0.27%	45.07% $\pm$ 2.53%	21.92% $\pm$ 1.35%
H3K9ac	8.43% $\pm$ 0.87%	5.94% $\pm$ 0.39%	4.46% $\pm$ 1.01%	0.48% $\pm$ 0.13%	0.59% $\pm$ 0.28%	1.70% $\pm$ 0.48%
H3K14ac	58.20% $\pm$ 2.40%	51.57% $\pm$ 1.86%	56.34% $\pm$ 0.55%	41.17% $\pm$ 2.59%	36.58% $\pm$ 3.20%	44.70% $\pm$ 1.21%
H3K18me1	5.23% $\pm$ 1.78%	4.17% $\pm$ 0.61%	3.10% $\pm$ 0.67%	0.25% $\pm$ 0.09%	0.31% $\pm$ 0.06%	0.29% $\pm$ 0.05%
H3K18ac	14.35% $\pm$ 1.76%	9.38% $\pm$ 1.04%	15.51% $\pm$ 1.40%	3.23% $\pm$ 0.22%	3.21% $\pm$ 0.76%	2.26% $\pm$ 0.20%
H3K23me1	0.61% $\pm$ 0.34%	0.41% $\pm$ 0.20%	0.28% $\pm$ 0.15%	5.13% $\pm$ 1.65%	4.37% $\pm$ 0.43%	0.20% $\pm$ 0.03%
H3K23ac	50.12% $\pm$ 3.45%	49.82% $\pm$ 1.34%	53.86% $\pm$ 2.13%	25.97% $\pm$ 2.02%	27.83% $\pm$ 0.72%	37.22% $\pm$ 3.61%
H3K27me1	40.81% $\pm$ 1.48%	27.81% $\pm$ 5.52%	23.27% $\pm$ 4.11%	13.44% $\pm$ 2.79%	14.11% $\pm$ 1.63%	35.98% $\pm$ 1.24%
H3K27me2	33.83% $\pm$ 2.97%	47.03% $\pm$ 4.27%	55.94% $\pm$ 5.39%	54.97% $\pm$ 3.25%	56.34% $\pm$ 2.45%	34.87% $\pm$ 0.12%
H3K27me3	10.88% $\pm$ 1.16%	16.69% $\pm$ 2.61%	16.28% $\pm$ 1.60%	28.92% $\pm$ 1.96%	26.04% $\pm$ 3.37%	12.74% $\pm$ 0.43%
H3K27ac	0.04% $\pm$ 0.01%	0.01% $\pm$ 0.01%	0.04% $\pm$ 0.02%	0.01% $\pm$ 0.01%	0.01% $\pm$ 0.00%	0.06% $\pm$ 0.01%
H3K36me1	35.28% $\pm$ 3.64%	36.80% $\pm$ 4.65%	34.50% $\pm$ 1.21%	41.69% $\pm$ 3.73%	35.34% $\pm$ 2.92%	29.00% $\pm$ 3.29%
H3K36me2	16.05% $\pm$ 3.09%	29.76% $\pm$ 4.61%	23.80% $\pm$ 1.53%	15.56% $\pm$ 1.63%	11.18% $\pm$ 2.28%	24.93% $\pm$ 3.21%
H3K36me3	2.02% $\pm$ 0.47%	3.54% $\pm$ 2.85%	7.07% $\pm$ 1.89%	2.45% $\pm$ 0.78%	2.21% $\pm$ 0.31%	3.30% $\pm$ 0.62%
H3K79me1	30.79% $\pm$ 0.28%	26.72% $\pm$ 1.41%	35.62% $\pm$ 2.40%	17.56% $\pm$ 4.36%	19.17% $\pm$ 3.12%	18.78% $\pm$ 1.18%
H3K79me2	3.62% $\pm$ 0.33%	3.04% $\pm$ 0.04%	1.61% $\pm$ 0.48%	0.62% $\pm$ 0.28%	4.96% $\pm$ 1.64%	1.89% $\pm$ 0.15%
H4K5ac	46.03% $\pm$ 1.82%	26.26% $\pm$ 0.59%	34.52% $\pm$ 2.88%	1.53% $\pm$ 0.38%	4.98% $\pm$ 1.01%	7.29% $\pm$ 0.54%
H4K8ac	45.48% $\pm$ 2.22%	21.52% $\pm$ 0.65%	31.38% $\pm$ 2.75%	1.94% $\pm$ 0.31%	2.93% $\pm$ 0.64%	5.21% $\pm$ 0.56%
H4K12ac	62.28% $\pm$ 2.84%	42.81% $\pm$ 4.40%	62.42% $\pm$ 3.36%	8.48% $\pm$ 1.06%	12.18% $\pm$ 2.13%	18.71% $\pm$ 1.76%
H4K16ac	62.20% $\pm$ 3.22%	49.94% $\pm$ 2.09%	58.91% $\pm$ 4.32%	17.44% $\pm$ 3.80%	26.18% $\pm$ 2.39%	41.30% $\pm$ 2.89%
H4K20me1	31.38% $\pm$ 3.25%	43.66% $\pm$ 0.79%	41.98% $\pm$ 4.70%	15.98% $\pm$ 1.75%	14.99% $\pm$ 1.83%	24.92% $\pm$ 1.12%
H4K20me2	35.17% $\pm$ 2.33%	25.57% $\pm$ 0.34%	8.49% $\pm$ 1.76%	72.95% $\pm$ 5.17%	79.75% $\pm$ 1.52%	57.88% $\pm$ 1.34%
H4K20me3	0.33% $\pm$ 0.14%	0.41% $\pm$ 0.08%	0.08% $\pm$ 0.04%	1.59% $\pm$ 0.31%	2.61% $\pm$ 0.67%	1.21% $\pm$ 0.07%