Cross-Correlation Function, Raw input H3K4me2 0.04 -0.020 -0.03 -0.015 -0.02 -0.010 -0.01 -0.005 -0.000 -0.00 -750 1000 750 250 500 250 500 1000 CCF H3K4me3 H3K27me3 0.006 -0.04 -0.03 -0.004 -0.02 -0.002 -0.01 -0.00 -0.000 -250 500 750 1000 500 750 1000 250 Delay Nucleosome Footprint (147bp) Read Length (100bp) Naive.Day0 Naive.Day1 Naive.Day5 Naive.Day14 Group

Memory.Day14

Memory.Day0 -

— Memory.Day1 — Memory.Day5

Cross-Correlation Function, Loess-Smoothed (span = 0.05) H3K4me2 input 0.006 -0.02 -0.004 -0.01 -0.002 -0.000 -0.00 -750 1000 250 750 1000 250 500 500 H3K4me3 H3K27me3 0.04 -0.006 -0.03 -0.004 -0.02 -0.002 -0.01 -0.00 -0.000 -750 1000 250 500 250 500 750 1000 Ö Delay

Naive.Day14

Memory.Day14

Nucleosome Footprint (147bp) Read Length (100bp)

CCF

Naive.Day0

Memory.Day0 -

Group

Naive.Day1

Naive.Day5

— Memory.Day1 — Memory.Day5

Cross-Correlation Function, Loess-Smoothed (span = 0.075) H3K4me2 input 0.006 -0.02 -0.004 -0.01 -0.002 -0.000 -0.00 -750 250 750 1000 250 500 1000 500 H3K4me3 H3K27me3 0.04 -0.006 -0.03 -0.004 -0.02 -0.002 -0.01 -0.00 -0.000 -250 500 750 1000 500 750 250 1000 Ö Delay Nucleosome Footprint (147bp) Read Length (100bp) Naive.Day14 Naive.Day0 Naive.Day1 Naive.Day5

Memory.Day14

CCF

Group

Memory.Day0 -

— Memory.Day1 — Memory.Day5

Cross–Correlation Function, Loess–Smoothed (span = 0.1) H3K4me2 input 0.02 -0.004 -0.01 -0.002 -0.000 -0.00 -750 250 750 1000 250 500 1000 500 H3K4me3 H3K27me3 0.006 -0.03 -0.004 -0.02 -0.002 -0.01 -0.00 -0.000 -1000 250 500 750 250 500 750 1000 Ö Delay Nucleosome Footprint (147bp) Read Length (100bp)

Naive.Day14

Memory.Day14

CCF

Naive.Day0

Memory.Day0 -

Group

Naive.Day1

— Memory.Day1 — Memory.Day5

Naive.Day5