Supplementary figures legends

**Supplementary Figure S1.** Comparison of BrdU incorporation in cells with HU or HU + caffeine. Cells synchronized in mitosis and released in G1 were either treated with HU or HU + caffeine in presence of BrdU for 20 hrs as described in Fig. 3A. Genomic DNA from these cells was extracted, sheared, denatured and subjected to BrdU ELISA (Karnani et al., 2009). Total BrdU incorporation is plotted as absorbance at 450nM. The ELISA was performed in triplicate and the average ± standard deviation plotted.

**Supplementary Figure S2.** Extended walk for (A) ORC4 and (B) MCM3 binding sites around CAFSp3. Primers were designed for chIP assay to check loading of indicated replication factors within 10 Kb on either side of the CAFSp3 peak. The ‘0’ on x-axis in each graph indicates the peak position of the BrdU signal while the scale represents the distance of qPCR primers from the peak. The black bar under x-axis in panel A indicates the length of BrdU labeled track identified on the microarrays.

**Supplementary Figure S3.** ChIP analysis of replication factors at CAFSp1 site. Y-axis indicates the fold enrichment over IgG or pre-bleed of the indicated antibodies. The ‘0’ on x-axis in each graph indicates the peak position of the BrdU signal while the scale represents the distance of qPCR primers from the peak. The black bar under x-axis in panel A indicates the length of BrdU labeled track identified on the microarrays.
Supplementary Figure S4. ChIP analysis of replication factors at CAFSp6 site. Rest as in Fig. S3.